Tim Callaghan – Resource and Exploration Geology
3 Main Rd Penguin 7318 ph. 0428 888 896 email: timcallaghan@netspace.net.au
ABN 50886857181

MT BLOCK
EL48/2003

ANNUAL REPORT 2019

NORTH WEST TASMANIA

Prepared for: Bass Metals Ltd

Tim Callaghan, February 2019

EXECUTIVE SUMMARY

In 2017, three targets were identified for exploration drilling in the Que River area on or adjacent to EL48/2003. These include the Amoeba Zone, the Hangingwall Basalt Syncline (HBS) and South Que River.

Diamond drill hole HED28 was completed to 309.3m testing the HBS. The drillhole confirmed the synclinal structure but did not intersect any significant alteration or mineralisation. The syncline axis has not yet been drilled and there is a slight chance it may be associated with altered volcanics. Limited broad spaced drilling has not completely eliminated this conceptual target, however it would have to be considered as high risk and of lower priority.

The Amoeba Zone is an outcropping zone of silica-sericite-pyrite altered dacitic volcanics with associated low order soil geochemistry anomalies. It has previously been tested by one drillhole which identified strongly pyrite altered volcanics but no basemetal mineralisation. An additional drillhole could be drilled from the Que River access road. The limited basemetal mineralisation associated with this target makes it a high risk and lower priority target.

The South Que River target is located on the Que River Mine Lease adjacent to EL48/2003. It is the faulted offset of the Que River Zone south of the Que River Fault. Sparse early historic drilling confirmed sub economic basemetal mineralisation associated with intensely altered Que River Mineralised Sequence (QMS). The target occupies a similar stratigraphic-structural setting as the Fossey deposit adjacent to a major cross cutting fault that has not yet been drill tested. The target has the potential to host 0.5Mt of basemetal sulphide mineralisation. A single 3-400m drillhole is proposed to test the target during 2019. The hole could be collared from EL48/2003 but most of the hole is located on 68M/1984.

Planned work for 2019 includes the drilling of the Sth Que target, minor field work and assessment and further target generation of the HBS, South Que River and Barite Creek Fault areas.

CONTENTS

LIST OF FIGURES

EL48/2003 Digital File Listing

Exploration Work Type	Filename	File format
Report	EL482003_201901_01_Report.pdf	*pdf*
Drilling	EL482003_201901_02_SL.xls	xls
	EL482003_201901_03_DS.xls	xls
	EL482003_201901_04_DL.xls	xls
	EL482003_201901_05_DG.xls	xls
	EL482003_201901_06_Lithcodes.xls	xls
Surface sampling		
Other (specify)		
File Verification Listing *(this file)*	EL482003_201901_FileListing.xls	xls

1 INTRODUCTION

This report is a summary of exploration activities completed on the Mt Block exploration license EL48/2003 between 11th January 2018 and 10th January 2019.

EL48/2003 surrounds the Hellyer Mine Lease (103M/1987) and the Que River Mine Lease (68M/1984). The Hellyer and Que River Mines are examples of world class poly metallic VHMS deposits. The Que River and Hellyer deposits are particularly enriched in precious metals Au and Ag as well as basemetal sulphides Cu, Pb, Zn. As such the tenement package is regarded as highly prospective for this style of mineralisation.

1.1 TENURE

EL48/2003 Mt Block is held by Bass Metals Ltd (Bass) after acquisition from Saracen Metals Pty Ltd in October 2006. During the tenure of the EL it has undergone several reductions in land area as well as a merger with the former adjacent EL24/2004, Bulgobac River. The current tenement comprises a total of 46km^2 after the last partial relinquishment in 2016.

North Queensland Minerals (NQM) have an agreement with Bass to resume mining activities on the Hellyer and Que River Mine leases as well as continue exploration of the Mt Block EL.

EL48/2003 is a mature exploration license and as such requires ongoing term of extension applications and associated work commitments to maintain tenure. Mineral Resources Tasmania have advised Bass that tenure will only be renewed if a drilling program is completed on the EL. North Queensland Minerals have commenced drilling the HBS syncline target in January 2018. The proposed work program detailed in this report is intended to provide targets for further exploration of the area during 2019.

1.2 LOCATION AND ACCESS

The tenement is located approximately 15 km's north-northeast of the township of Tullah, on the west coast of Tasmania (Figure 1). Access to the area is via the Murchison Highway and tracks which access via the 220kv power line which traverses the area. Access within the tenement is via a limited number of 4WD tracks and ATV-only tracks. The license area lies on the Sophia (#8014) 1:100,000 map sheet and Charter (#3839) and Block (#3838) 1:25,000 topographic map sheets.

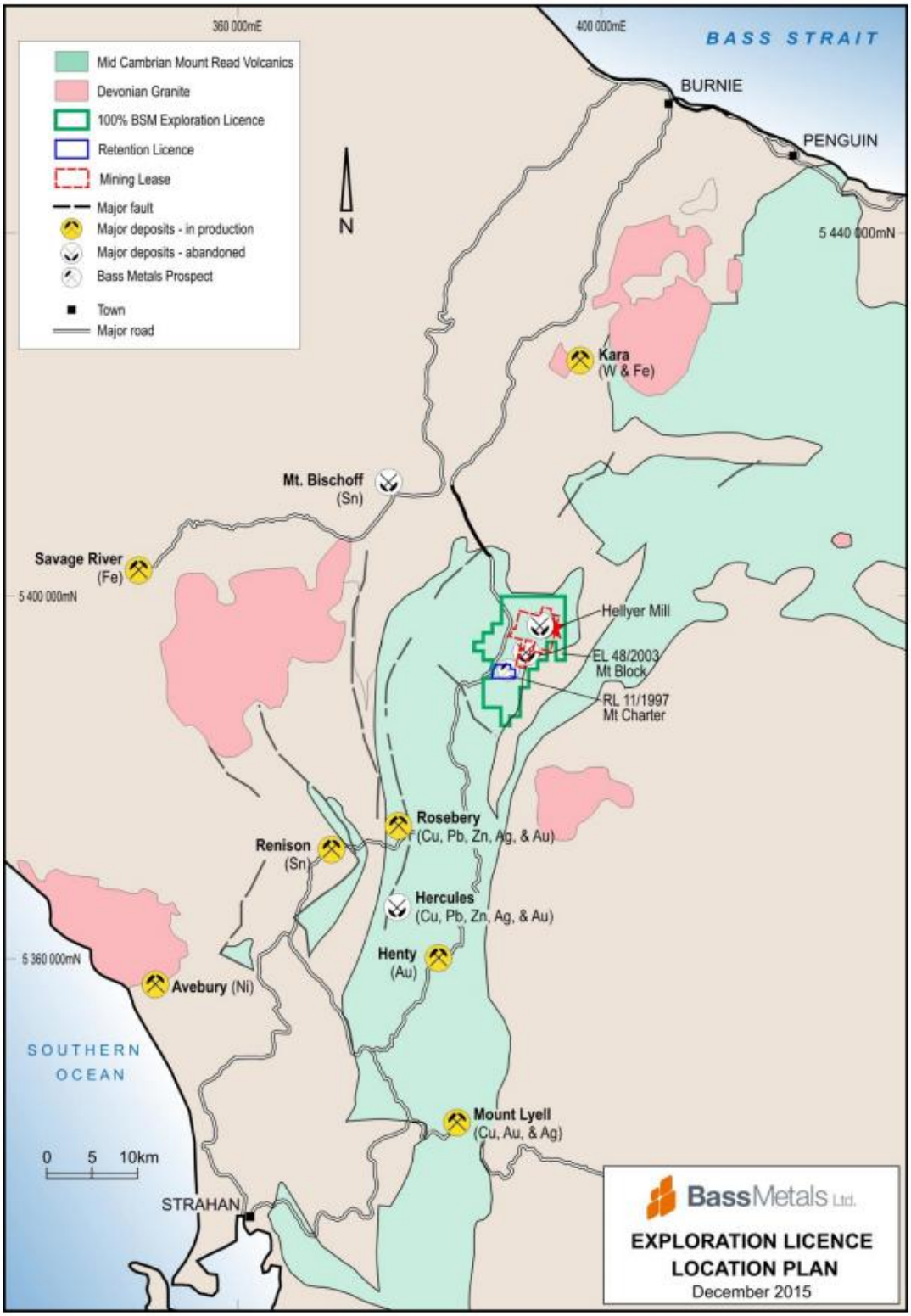

Figure 1. Tenement location plan.

2 REGIONAL GEOLOGY

The Que River, Hellyer and Fossey poly-metallic base metal sulphide and Mt Charter barite-precious metal deposits are hosted in the Que-Hellyer Volcanic (QHV) sequence within the Mt Charter Group of the Cambrian Mt Read Volcanics.

The QHV is a sequence of calc-alkaline mafic to felsic volcanics filling a northeast trending Cambrian submarine extensional basin. The basin depth varies dramatically from up to 1000m thickness near Que River and Hellyer but thins to 50m northwest of the Hellyer mine.

The QHV has been subdivided into several stratigraphic elements summarized below:

Hellyer Basalt (Upper Basalt) - consisting of massive to pillowed amygdaloidal basalt lava and associated volcanoclastic rocks. An associated andesite is located in the Mt Charter region to the south.

Mixed Sequence - host to the Que River, Hellyer and Mt Charter deposit is comprised of epiclastics, dacitic lavas and breccias.

The Feldspar Phyric Andesite consisting of a porphyritic andesite lava in the footwall of the Hellyer and Que River deposits.

The Lower Basalt, a sequence of basaltic pillow lavas and volcanoclastics, which form the immediate footwall at Que River and Hellyer.

The QHV are overlain by the Que River Shale which is in turn overlain by the Southwell Subgroup consisting of felsic volcanoclastics, greywacke and shale. The Southwell subgroup is overlain by the Mt Cripps subgroup (a correlate of the Tyndall beds at the Henty mine) which is a sequence of volcanoclastics, siltstones and conglomerates only outcropping along the eastern boundary of the Hellyer area tenements

The Cambrian deposits have been subjected to the Mid Devonian regional deformation event resulting in folding, faulting, development of a regional foliation and prehnite-pumpellyite to lower greenschist metamorphism. Open, early NW trending folds and associated foliation has been overprinted by a later shallow NE-SW folding event.

Cambrian syn-depositional faults have been reactivated and later brittle faulting is associated with rheology contrasts between earlier alteration facies. Cambrian basin architecture has been a control on volcanism, mineralisation and subsequent deformation.

In the south of the area covered by EL48/2003, the QHV are bound to the east by the northeast trending Henty Fault. The Geology east of the Henty Fault is dominated by Cambrian to Silurian siliciclastic and calcareous sediments of the Wurawina Supergroup.

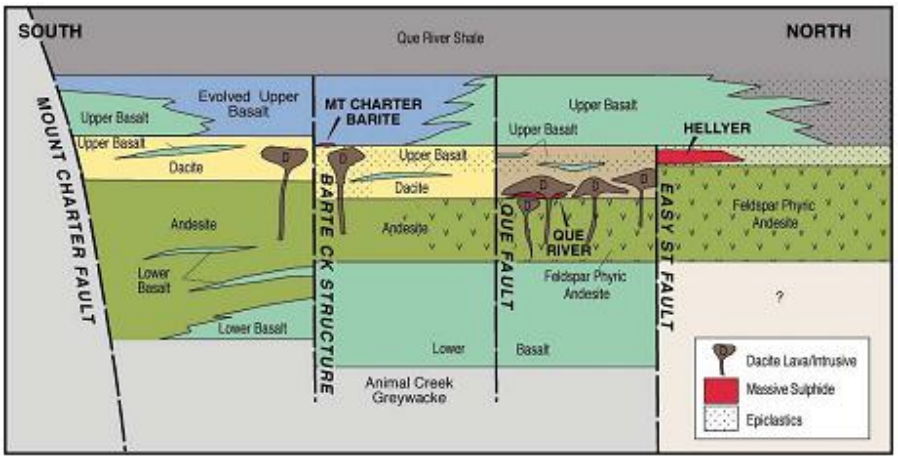

Figure 2. Schematic cross section of Que-Hellyer Stratigraphic sequence.

Much of the geology to the north of the EL is dominated by Tertiary basaltic lavas forming a thick plateau. The Tertiary basalts cover the underlying prospective volcanics making exploration expensive and difficult in the northern EL.

3 EXPLORATION HISTORY

Work carried out in the Mt Block area prior to 2011 is summarised in the 2011 annual report (Denwer, 2011).

2013-2014 Work completed since 2011 included a geochemical review of prospective alteration zones within the QHV. The review was completed by external consultants and Bass Geological staff. Two zones of interest were identified on EL48/2003, the Amoeba Zone and the Barite Creek Fault.

2015 Compilation and digitization of petrographic reports and photographs (Richardson, 2015).

2016 Exploration on EL48/2003 during 2016-17 involved a review of historic data and target generation in the Que River area (Callaghan, 2017).

2018 Drilling one diamond Drillhole HED28 for 309.3m. The drillhole intersected unmineralised and unaltered mixed volcanics below the hangingwall basalt.

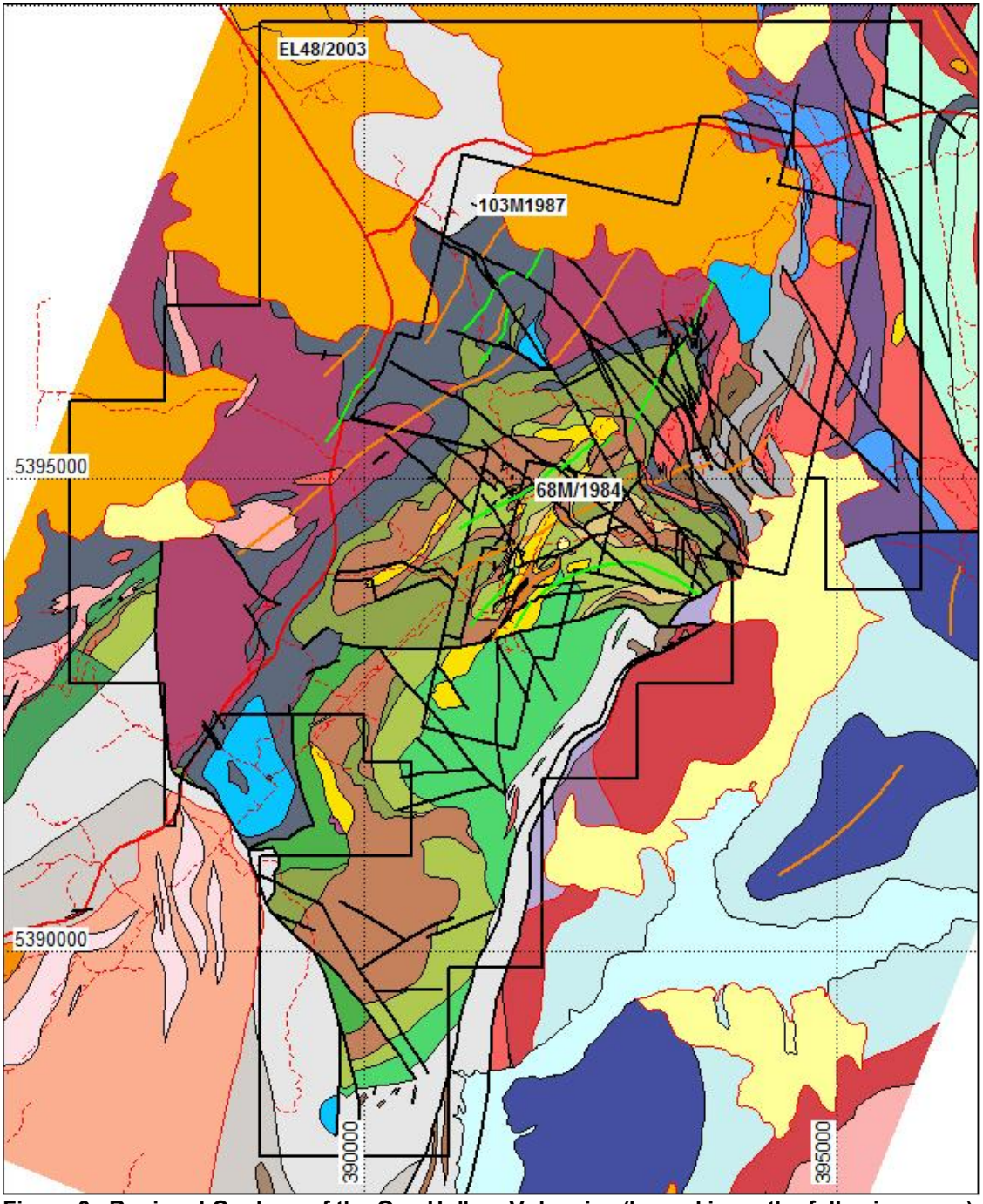

Figure 3. Regional Geology of the Que-Hellyer Volcanics (legend is on the following page).

LITHOLOGICAL LEGEND

QUATERNARY
- Qa,g,u — ALLUVIUM/SWAMP (a), GLACIAL(g), UNDIFFERENTIATED(u)

TERTIARY
- TB — BASALT LAVA
- TS — SILCRETE

DEVONIAN SILURIAN
- S-D — ELDON GROUP SEDIMENTS (UNDIFFERENTIATED)

ORDOVICIAN
- Ogl — GORDON GROUP (UNDIFFERENTIATED)
- Oms — MOINA SANDSTONE

EARLY ORDOVICIAN LATE CAMBRIAN
- Oo Ouu — UPPER UPPER OWEN-CHERT BEARING CONGLOMERATE & SANDSTONE (PIONEER BEDS EQUIVALENT)
- Oo Oul — LOWER UPPER OWEN-WELL BEDDED PINK SANDSTONE
- Oo Oom — MIDDLE OWEN-DOMINALTY PEBBLE CONGLOMERATE
- Oo Oon — NEWTON CREEK SANDSTONE MEMBER EQUIVALENT

CAMBRIAN

Tyndall Group
- Tv1 — RED VOLCANICLASTIC CONGLOMERATE
- Tv2 — RED ASH-LAPILLI VOLCANICLASTIC, MINOR CONGLOMERATE
- Tv3 — INTERBEDDED SILTSTONE, SANDSTONE AND SILICICLASTIC CONGLOMERATE

Mt.Charter Group

Southwell Sub-Group
- RDI — RHYOLITE-DACITE LAVA & SHALLOW INTRUSIVE
- Ms — MICACEOUS SANDSTONE, SHALE MINOR CONGLOMERATE
- Flv — FELSIC LAPILLI VOLCANICLASTICS, OFTEN EUTAXITIC
- URS 1 — QTZ. XTAL. RICH VOLCANICLASTIC ± BLACK SHALE MATRIX, BLACK VITRIC VOLCANICLASTIC ± EUTAXITIC FRAGS
- 2 — GREY LAMINATED SILTSTONE & LITHIC WACKE CONTAINING BLACK SHALE & CHERT FRAGMENTS
- 3 — BLACK SHALE LENSES
- 4 — QTZ. XTAL. RICH VOLCANICLASTICS WITHOUT BLACK SHALE OR BLACK VITRIC MATRIX

QueRiverShale
- QRS — BLACK CARBONACEOUS QTZ./MICA SHALE.

Que-Hellyer Volcanics
- B — AMYGDALOIDAL BASALT SHEET LAVA (B-l) & PILLOW LAVA (B-pl) WHICH INCLUDES HYALOCLASTITE BRECCIA & INTERPILLOW CHERT
- A — ANDESITE (TRACHYTIC LAVA & BRECCIA)
- B+c — BASALT VOLCANICLASTIC (cBMS SULPHIDE FRAGMENTS IN GOLDEN TRIANGLE)
- D — DACITE LAVA COMMONLY FLOW BANDED & DACITE VOLCANICLASTIC
- Y — CLAST DOMINANT, POLYMICT, LAPILLI TO BRECCIA VOLCANICLASTICS. CONTAINS CLASTS OF ANDESITE, BASALT, DACITE & BASE METAL SULPHIDES.
- Ba — MASSIVE COARSELY CRYSTALLINE TO WEAKLY BEDDED BARITE
- BMS — BASE METAL SULPHIDE LENSES
- HA — STRONGLY SERICITE-PYRITE-QUARTZ-CHLORITE ALTERED ROCKS. ALTERATION OBLITERATES PRIMARY FEATURES.
- Ab — ANDESITE FELDSPAR PHYRIC LAVA COMMONLY AUTOBRECCIATED & ANDESITE VOLCANICLASTIC
- LB — LOWER BASALT - AMYGDALOIDALBASALT SHEET LAVA, PILLOW LAVA & BASALT VOLCANICLASTIC

AnimalCk. Greywacke
- MSs — MASSIVE QTZ./MICA SANDSTONE. COMMON INTERBEDS OF BLACK CARBONACEOUS QTZ./MICA SHALE.

BlackHarry Beds
- BH — ASH TO FINE LAPILLI VOLCANICLASTIC & SHALE

S.W.of Mt.Charter Fault
- Sh — BLACK SHALE, SILTSTONE
- Vl — FELSIC FINE GRAINED VITRIC VOLCANICLASTIC
- Fl — FELSIC LAVA, MOSTLY FELDSPAR PHYRIC, MASSIVE TO AMYGDALOIDAL

Central Volcanic Complex
- CV1 — FELSIC VOLCANICLASTIC ± EUTAXITIC FRAGMENTS (IGNIMBRITE?)
- CV2 — RHYODACITE-RHYOLITE LAVA & POSSIBLE INTRUSIVES
- CV3 — FELSIC FINE GRAINED VITRIC VOLCANICLASTIC

UNASSIGNED SEQUENCE - East of Henty Fault
- RDI — RHYOLITE TO RHYODACITE LAVA &/OR INTRUSIVE
- MSs — MICACEOUS SANDSTONE & INTERBEDDED SHALE
- Dvc — DACITE VOLCANICLASTIC
- Rvc — RHYOLITE VOLCANICLASTIC

INTRUSIVE LITHOLOGIES
- KI — ?CRETACEOUS LAMPROPHYRE DYKES
- Dol — ?CAMBRIAN DOLERITE SILLS
- R — QTZ PROPHYRITIC RHYOLITE SILLS
- QFP — QTZ FELDSPAR PORPHYRY INTRUSIVE
- ADI — ANDESITE-DACITE INTRUSIVES, COMMON IN MSs AROUND 1600N 6000E (MINEGRID).

BassMetals Ltd.

HELLYER PROJECT

REVISIONS

Que Hellyer Volcanics Geological Legend

Compiled :
Drawn :
Checked :
File name :
Date : 30-3-10
Plate No. :

4 WORK COMPLETED 2018

Three targets were identified in the Que River area on or adjacent to EL48/2003 including the Amoeba Zone, the Hangingwall Basalt Syncline (HBS) and South Que River (see Appendix 1). Richardson 2015 identified the Amoeba Zone and the Barite Creek Fault as potential targets on the EL. The Barite Creek Fault is located in the south of the EL and is relatively difficult to access.

Diamond drillhole HED28 was drilled to a depth of 309.3m targeting the HBS conceptual target. Details of the drill collar are contained in Table 1 and in Appendix 2 of this report.

Table 1. HED28 Collar Details

BHID	Easting	Northing	RL	Depth	Azm	Dip	Date
HED28	390830	5394000	688	309.3	309	-55	1/02/2018

The drillhole was completed by contract drillers E Drill in January 2018. The hole was drilled HQ to a depth of 68.8m with the remainder drilled NQ. The drill site was located on the old Que River access Road and no earthworks were required. Recoveries were generally excellent below the weathered zone with the exception of minor core loss in discrete structures.

The drillhole intersected the entire Hellyer sequence, collaring in the Hangingwall Basalt pillow lava sequence. The Hellyer-Que River Host Sequence volcaniclastics and dacites were intersected between 83.1m to 235.8m. The volcaniclastics were only weakly albite and chlorite altered with no significant mineralisation logged. None of the core was cut and submitted for analysis. The drillhole ended in weakly chlorite altered feldspar phyric footwall andesite. A summary log is as follows

0 – 83.1	Hangingwall Basalt Sequence
83.1 – 92.2	Mixed Sequence Volcaniclastics
92.2 – 95.8	Fault Zone
95.8 – 97.9	Mixed Sequence hyaloclastic basaltic andesite
97.9 – 150.8	Mixed Sequence dacite lava
150.8 – 177.6	Mixed Sequence polymict volcaniclastics
177.6 – 200.1	Mixed Sequence dacite lava
200.1 – 235.8	Mixed Sequence polymict volcaniclastics
235.8 – 309.3	Footwall Andesite

A plan and cross section of the hole are displayed in Figures 4 and 5.

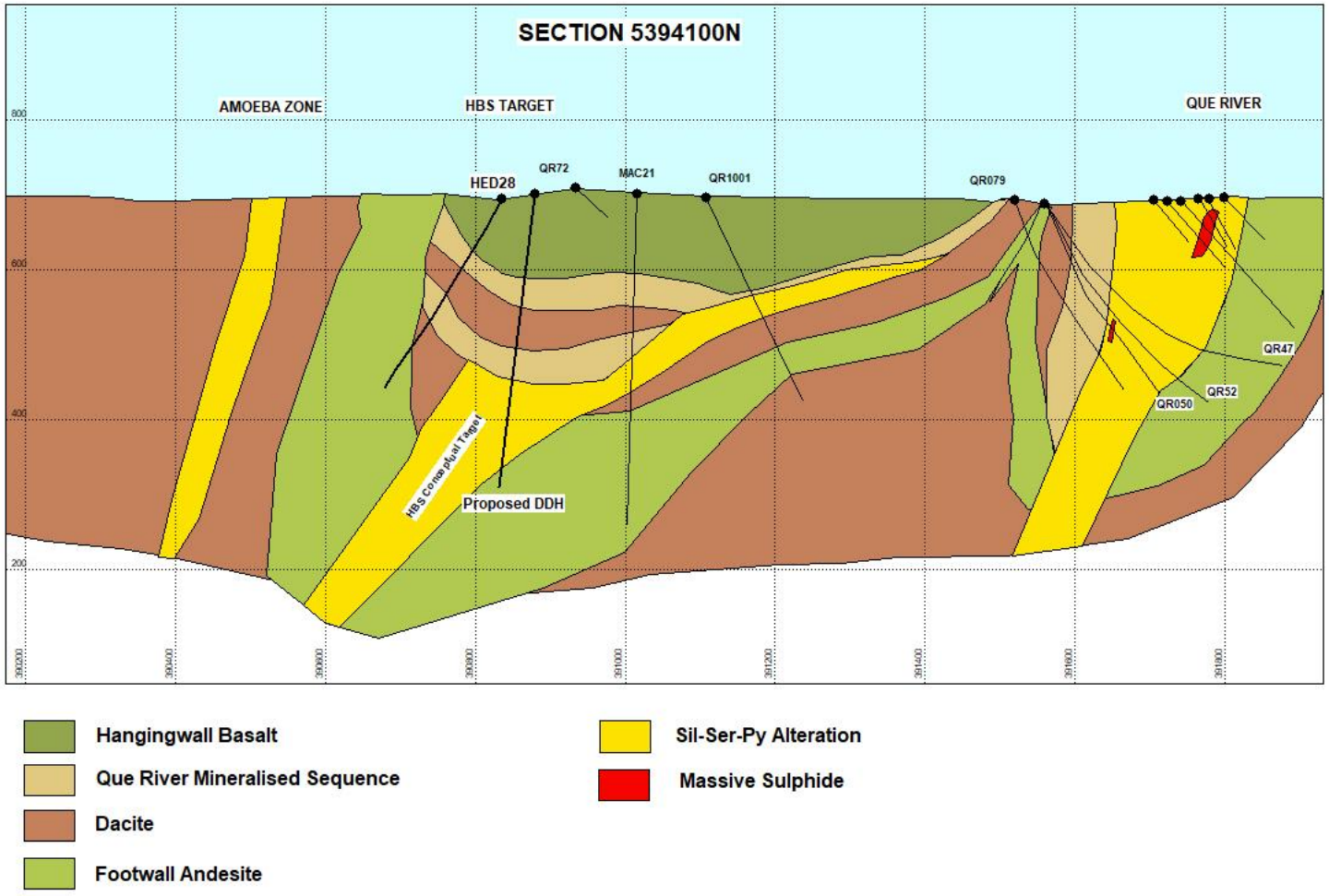

Figure 4. Section 5394100N. HED28 conceptual HBS target and proposed future DDH.

5 DISCUSSION

Although HED28 did not intersect any significant alteration or mineralisation on the western limb of the syncline, the Hangingwall Basalt Syncline target cannot be considered to be completely tested.

The Que River and Fossey deposits are tightly folded synclinal or anticlinal structures resulting from the deformation of ductile sericitic alteration associated with the deposits. Previous drilling of the HBS (MAC1 and QR1001) has identified altered Que River Mine Sequence (QMS) below the Hangingwall Basalt that is generally flat lying (Figure 4). HED28 intersected unaltered QMS on the western side of the syncline confirming the synclinal structure. However, it has not tested if the syncline axis is altered and folded into an isoclinal synclinal axis **IF** significant alteration was associated with the QMS. The very weak pyrite alteration intersected in the Footwall Andesite at the end of HED28 may be distal to a stronger alteration zone in the syncline axis.

Another drillhole testing the syncline between MAC1 and HED28 is required to test the potential for mineralisation in the QMS down dip from the alteration identified in MAC1 and QR1001. This target is conceptual and consequently high risk. However, it has the potential to host significant basemetal sulphides as a large untested area is present. Further drilling could be completed with a steeply west dipping hole from a collar position close to HED28 (Proposed Hole Figure 4). This hole is a low priority drill hole due to the high risk conceptual target.

Other targets in the area include the Amoeba Zone and South Que River.

The Amoeba Zone has a strong coincident IP and geochemical anomaly associated with strong silica-sericite-pyrite alteration (Figure 4, 5 and 6). Historic drillhole HAT3 intersected the strongest zone of the anomaly with no significant mineralisation identified. Additional drilling could be conducted along strike testing the alteration to the south of HAT3. This hole is High Risk and Low Priority

The South Que River target is located on the Que River Mine Lease adjacent to EL48/2003. It is the faulted offset of the Que River Zone south of the Que River Fault. Sparse early historic drilling confirmed sub economic basemetal mineralisation associated with intensely altered QMS. The target occupies a similar stratigraphic-structural setting as the Fossey deposit adjacent to a major cross cutting fault that has not yet been drill tested. The target has the potential to host 0.5Mt of basemetal sulphide mineralisation. A single 3-400m drillhole is proposed to test the target. The hole could be collared from EL48/2003 but most of the hole and the target is located on 68M/1984. **MRT would need to provide advice on whether expenditure on this target is sufficient for the renewal of EL48/2003.**

This hole is regarded as Low Risk and High Priority.

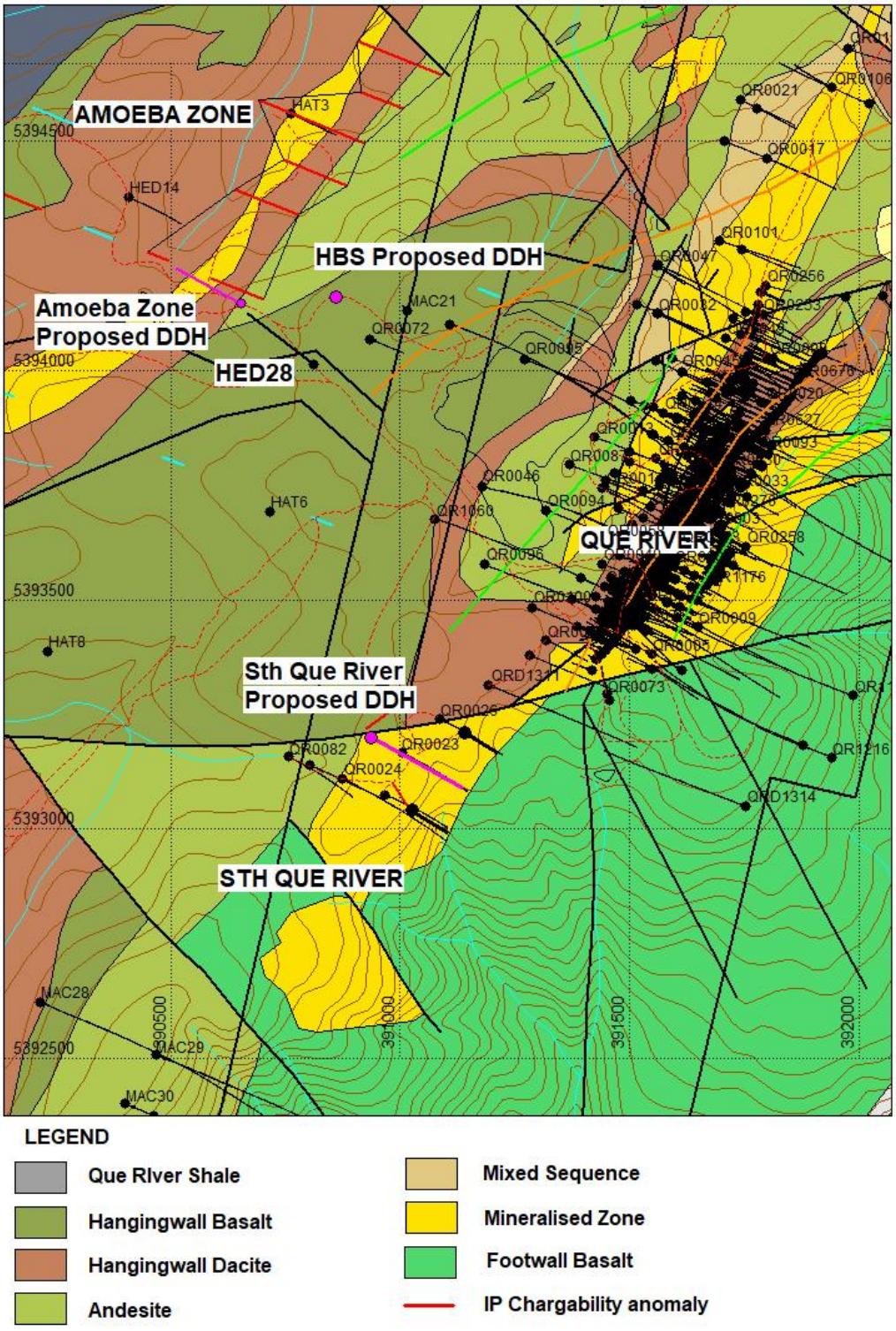

Figure 5. Que River geology map, HED28 Location and proposed drilling.

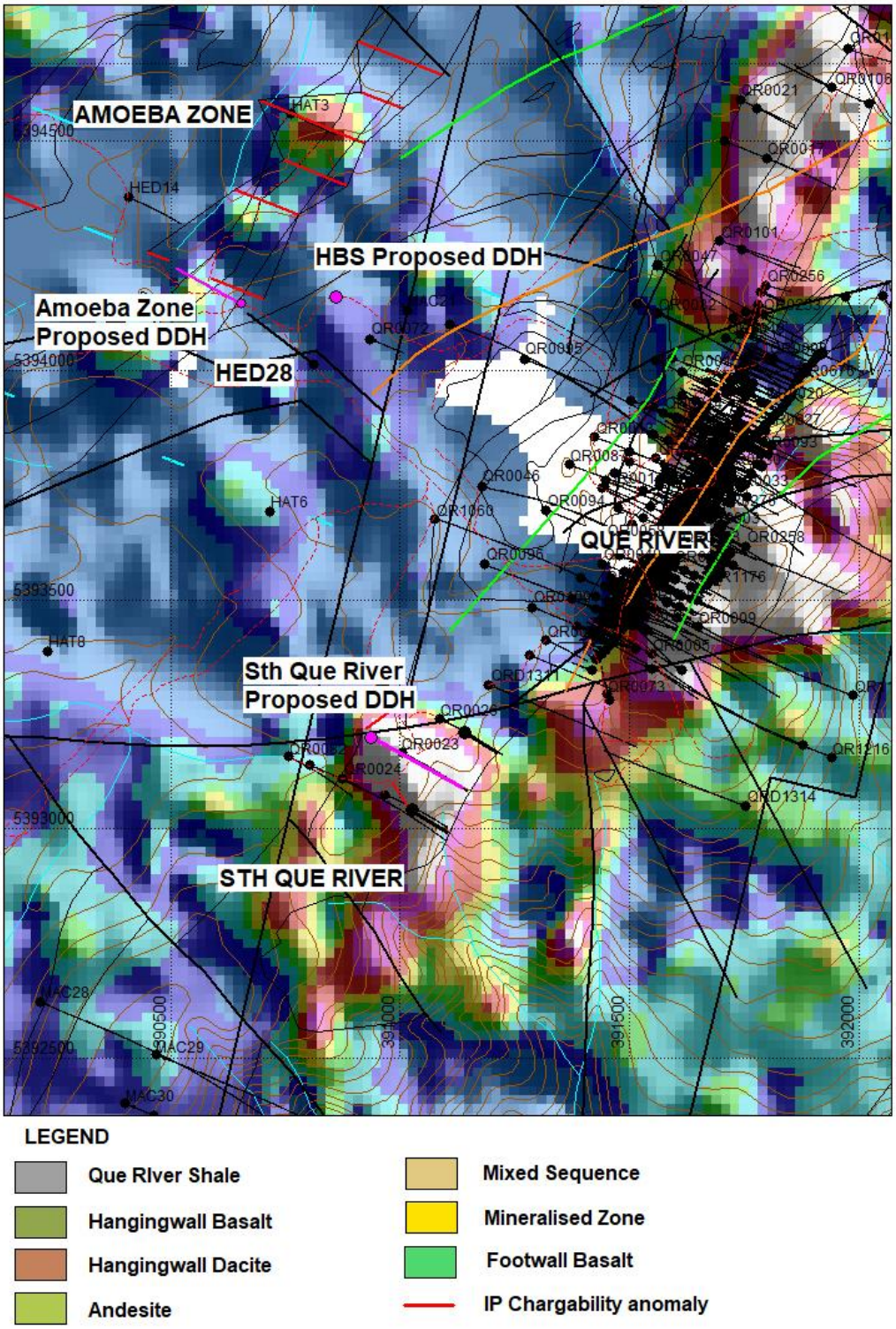

Figure 6. Soil As image, HED28 Location and proposed drilling

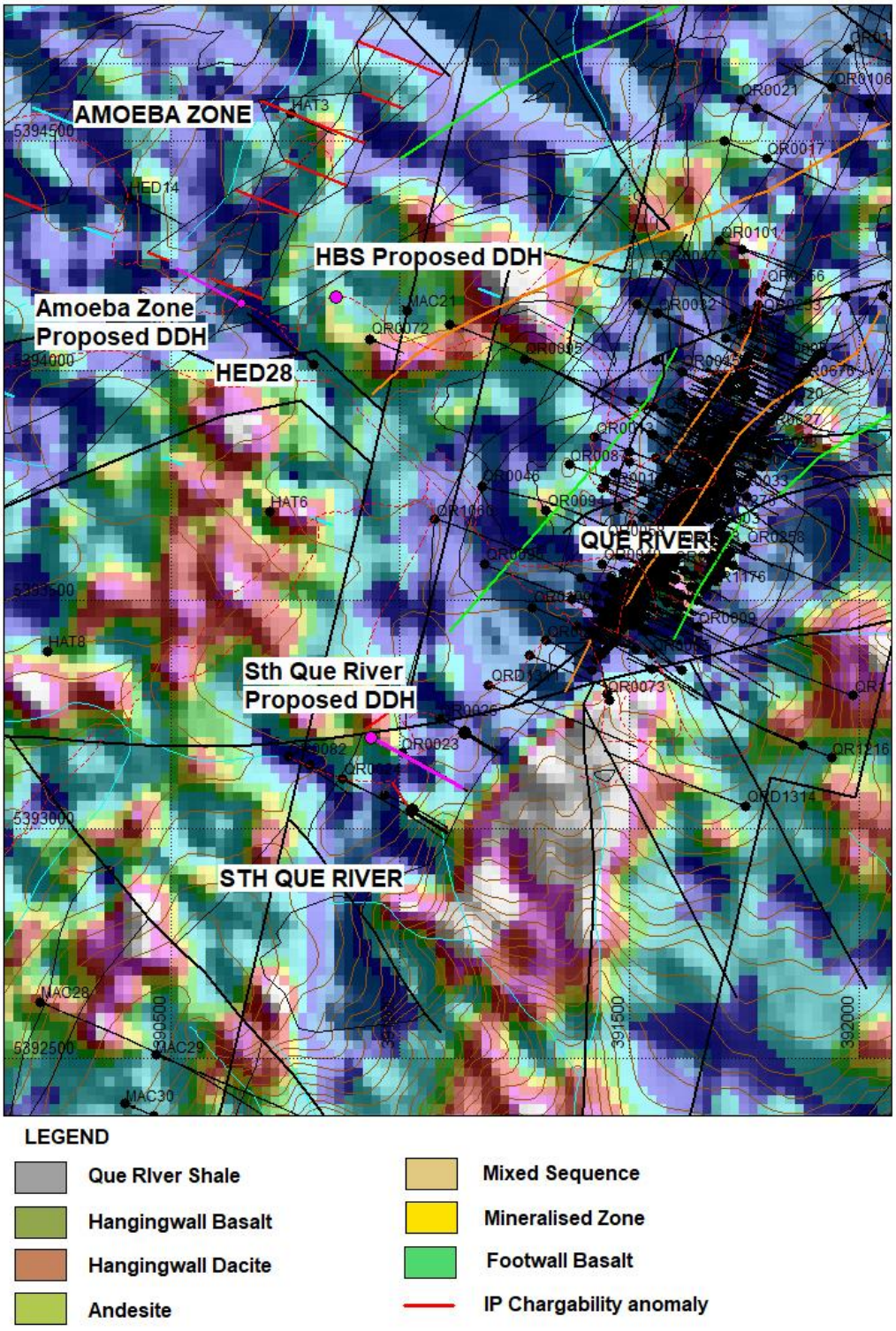

Figure 7. Soil Pb image, HED28 Location and proposed drilling

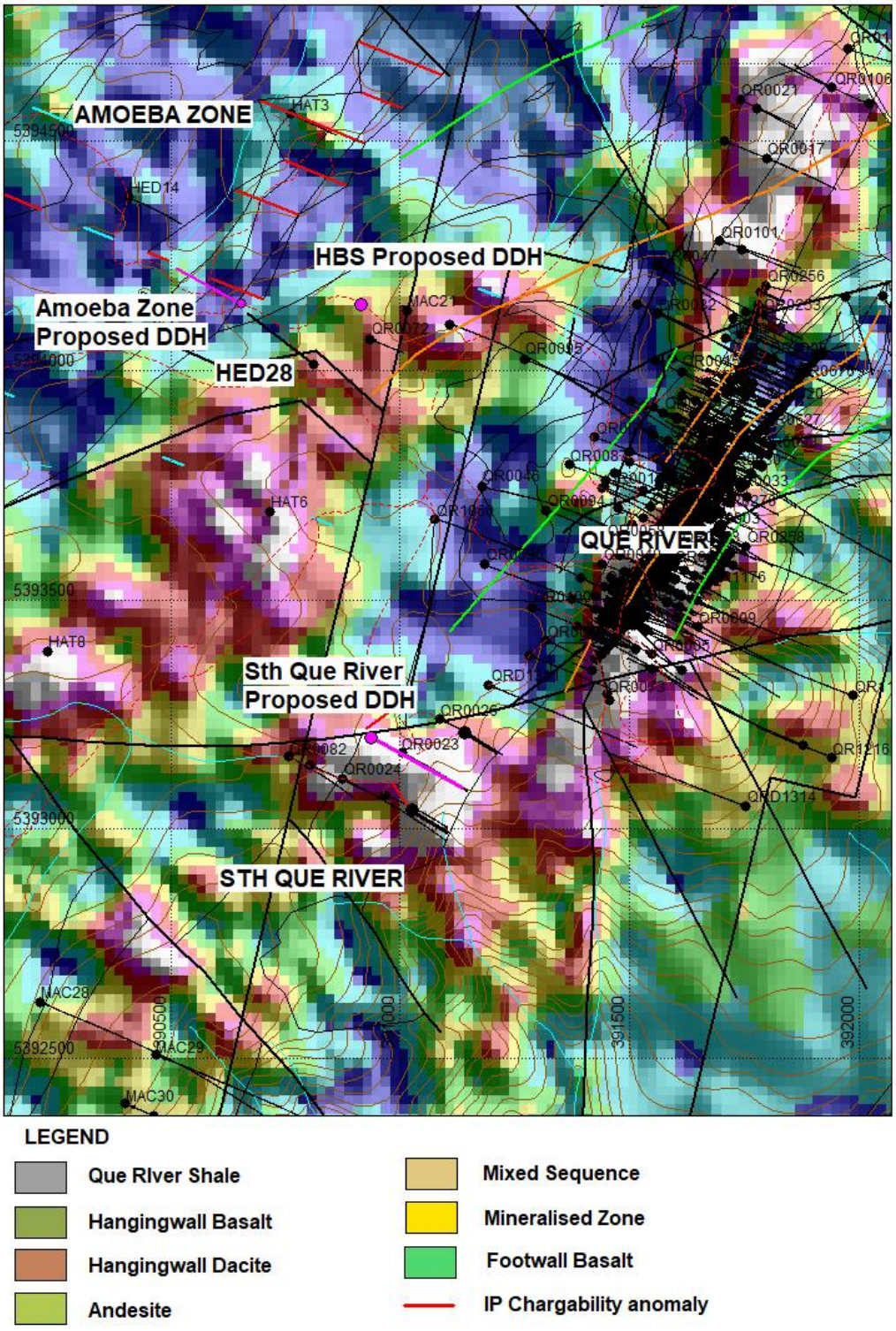

Figure 8. Soil Pb image, HED28 Location and proposed drilling

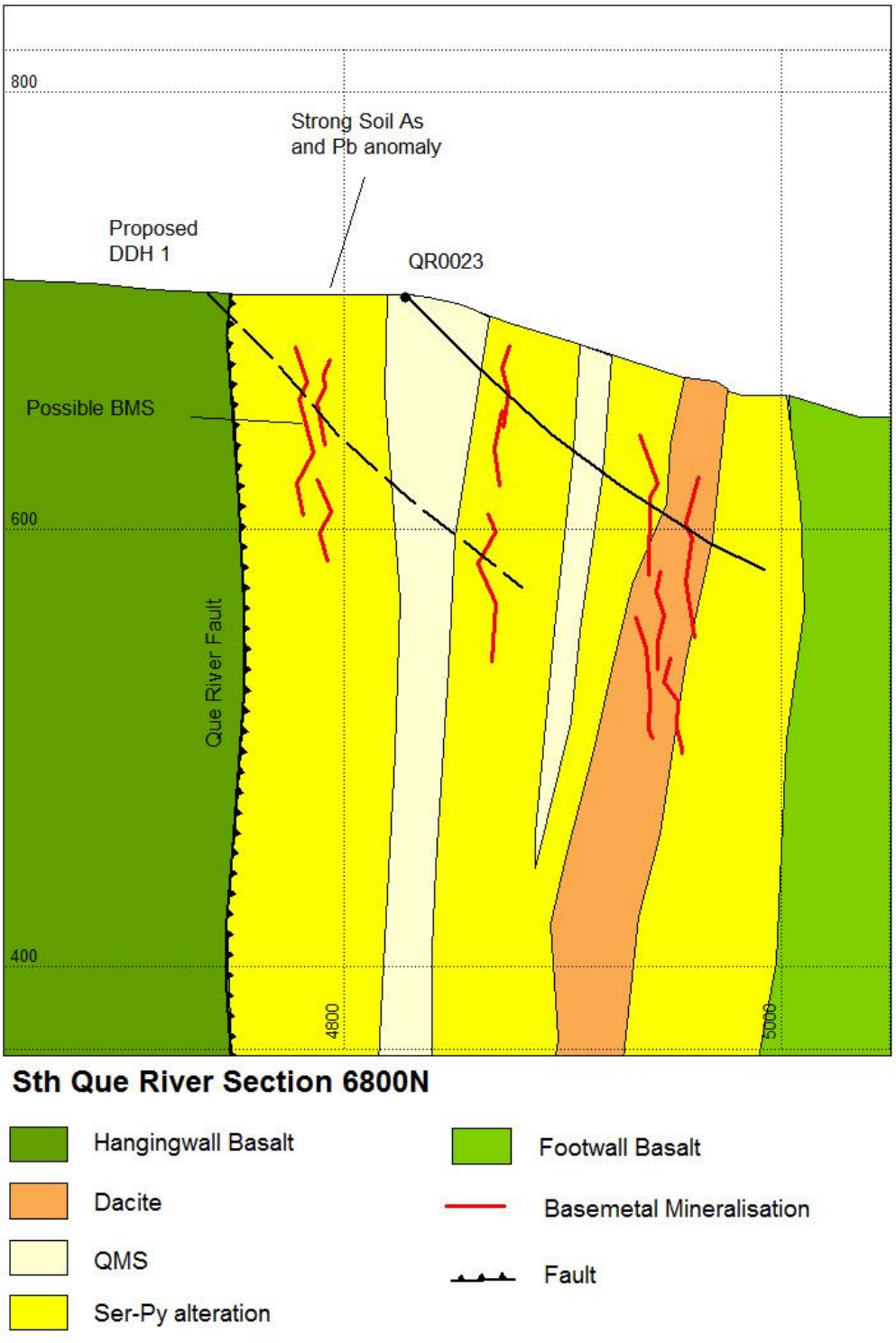

Figure 9. South Que River Section 6800N (Que Mine Grid) and proposed DDH.

6 PROPOSED WORK 2019

Of the three potential targets discussed in the Que River area, The South Que River drill hole has the most chance of success. The target is located on the Que River Mine Lease and not EL48/2003

Work proposed for 2019 includes drilling of the Sth Que target and further target generation of the HBS and Amoeba Zones. A review of drill intersections in the vicinity of the HBS and South Que River areas will be completed.

The Amoeba Zone is an outcropping zone of silica-sericite-pyrite altered dacitic volcanics with associated low order soil geochemistry anomalies. It has previously been tested by one drillhole which identified strongly pyrite altered volcanics but no basemetal mineralisation.

Minor field investigations of the HBS, South Que and Barite Creek areas will also be completed.

7 ENVIRONMENT

The drill site for HED28 was situated on the old Que River access road and required no earthworks. After the rig was demobilized the hole was capped and backfilled and the site cleaned up. No rehabilitation is required.

All proposed works will be conducted under the guidelines of Mineral Resources Tasmania's Exploration Code of Practice.

8 PROPOSED EXPENDITURE

Drilling	300m	$55,000
Geology		$15,000
Geochemistry		$2,500
Earth moving		$5,000
Field Supplies		$1,000
Contingency		$1,500
Total		**$80,000**

ADDITIONAL NOTES

LIMITATIONS AND CONSENT

The report is provided to Bass Metals Ltd. in the context of an Annual Report for EI48/2003 and should not be used or relied upon for any other purpose.

This report has been prepared using information available to the Author at the time of writing. The opinions stated herein are given in good faith and with the belief that the basic assumptions are factual and correct and the interpretations reasonable.

This report is not intended for the use as a public document nor, in whole or in part, in a public document without written consent to the form and context in which it appears.

COMPETENT PERSON AND JORC CODE

This report was prepared in accordance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code") by Tim Callaghan, who is a Member of the Australian Institute of Mining and Metallurgy ("AusIMM"), has a minimum of five years' experience in the estimation and assessment and evaluation of Mineral Resources of this style and is the competent Person as defined in the JORC Code. This announcement accurately summarises and fairly reports his estimations and he has consented to the resource report in the form and context it appears.

FORWARD LOOKING STATEMENTS

Some statements in this announcement regarding estimates or future events are forward-looking statements. They involve risk and uncertainties that could cause actual results to differ from estimated results. Forward looking statements include but are not limited to, statements concerning the Company's exploration program, outlook, target sizes and mineralised material estimates. They include statements preceded by words such as "expected", "planned", "target", "scheduled", "intends", "potential", "prospective" and similar expressions.

STATEMENT OF INDEPENDENCE

Tim Callaghan has no material interest or entitlement in the securities or assets of Bass Metals Ltd or any associated companies.

REFERENCES

Callaghan, T. 2017 Mt Block, Tasmania, EL48/2003, Annual Progress Report for period Ended 10th January 2017. *Unpublished Report for Bass Metals Ltd.*

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Appendix 1

HED28 Drill Log

HELLYER PROJECT - DRILL LOG

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BHID HED28

Collar

Project	Prospect	Location	BHID	Easting	Northing	RL	Depth	Date	Geologist
Que River	HBS	Hellyer Ba	HED28	390830	5394000	688	309.3	1/02/2018	TJC

Surveys

Project	Prospect	BHID	Depth	Dip	Azm_HMG
Que River	HBS	HED28	0	-55	309
Que River	HBS	HED28	30	-56	309
Que River	HBS	HED28	60	-54	308
Que River	HBS	HED28	120	-52.5	308
Que River	HBS	HED28	188	-51.5	308
Que River	HBS	HED28	210	-51	309
Que River	HBS	HED28	240	-50	308
Que River	HBS	HED28	270	-49	308
Que River	HBS	HED28	300	-48.5	308

Hole Sizes

From	Size
0	HQ
68.8	NQ

Drilled By

E Drill

Analyses By

Requisition No

Survey Type

Comments

HED28 is an exploration hole designed to test the axis of the Hellyer Basalt Syncline west of Que River.
The hole intersected unaltered Que-Hellyer mine sequence and dacitic volcanics from 150.8 to 235.8m.

Significant Results

No significant mineralisation was intersected.

FOSSEY - DRILL LOG

Mancala www.mancala.com.au

BASS METALS LTD

Hole details						Lithology																		Alteration						Mineralisation						Description
									Volcanics							Lower																				
									Fragments					matrix		Contac																				
									Lithics																											
Project	Prospect	BHID	From	To		Stratigraphy	Rock Type	Texture	Colour	composition	size mm	sorting	shape	composition	volume%	Gradation	style	Mineralogy 1	Texture 1	Intensity 1	Mineralogy 2	Texture 2	Intensity 2	Mineralogy 1	Intensity 1	Texture 1	Mineralogy 2	Intensity 2	Texture 2		
Que River	Que River	HED28	0	29.5		PLS	B	bv	Or	B	50	W	A						P	5											Deeply weathered basaltic andesite breccia. Orange clay.
Que River	Que River	HED28	29.5	46		PLS	B	bv	Or	B	50	W	A			G1															Transitional weathered zone. Basaltic breccia.
Que River	Que River	HED28	46	83.1		PLS	B	bv	Gn	B	50	W	A			F		Cl	P	5	Ab	S	3								Angular basaltic andesite hyalocalstic lava. Chl alt with interstitial albite.
Que River	Que River	HED28	83.1	92.2		HVS	Y	mlv	Pk	Y	50	P	sA			F		Ab	P	5											Albite altered, polymict volcaniclastic breccia, sandstone and dacite.
Que River	Que River	HED28	92.2	95.8		FLT										F		Ab													Brecciated brittle fault. Very poor core recovery. (Polymict volcanics?)
Que River	Que River	HED28	95.8	97.9		LBS	B	l	Gn	B	2	W	A			F		Cl	P	3											Faulted vesicular, hyaloclastic basalt.
Que River	Que River	HED28	97.9	150.8		HD	D	l	Rd	D	10	W	A					Ab	P	3	Cl	S	1								Fine feldspar phyric albite altered dacite lava breccia. Chloritised mafics.
Que River	Que River	HED28	150.8	153.8		HVS	Y	mlv	Gn	Y	10	P	sR			G1		Cl	P	3											Polymict volcaniclastic sandstone. Rounded clasts in matrix supported crystal sandstone. Pervasive chlorite alteration.
Que River	Que River	HED28	153.8	154.9		HVS	Ss	flv	Gn	A	2	W	sA			G1		Cl	P												Shard rich andesitic volcaniclastic sandstone. Pervasive chlorite alteration.
Que River	Que River	HED28	154.9	157		HVS	Sh	av	Gn	A	1	W				S		Cl	P												Chl altered vitric siltstone.
Que River	Que River	HED28	157	173.8		HVS	Ss	flv	Gn	A	2	W	sA			G3		Cl	P												Shard rich andesitic volcaniclastic sandstone. Pervasive chlorite alteration.
Que River	Que River	HED28	173.8	177.6		HVS	Y	clv	Gn	Y	20	P	sA			S															Coarse polymict volcaniclastic breccia. Sub rounded and angular clasts in crystal vitric sandstone matrix.
Que River	Que River	HED28	177.6	189.7		HD	D	l	Or	D	10	W	A			G3		Ab	P	3	Cl	S	1								Fine feldspar phyric to aphyric strongly albite altered dacite lava breccia. Chilled peperitic margins.
Que River	Que River	HED28	189.7	192.9		HVS	A	clv	Gn	A	20	W	A	An		G2		Cl	P	3											Coarse andesitic volcaniclastic/autobreccia. Angular feldspar phyric andesite clasts in crystal matrix. Chl alteration.
Que River	Que River	HED28	192.9	200.1		HD	D	l	Gy	D								Se	P	2	Cl	P	1								Aphyric dacite lava. Breciated margins. Pervasive weak ser-chl alteration.
Que River	Que River	HED28	200.1	235.8		HVS	Y	mlv	Gn	A	30	P	sA	An		G2		Cl	P	3	Ab	S	1								Massive, andesitic crystal sandstone with matrix supported clasts of dacite and andesite. Feldspar-pyroxene-lihic matrix. Pervasive chlorite alteration.
Que River	Que River	HED28	235.8	269.6		FA	A		Gn	A				An		G2		Cl	P	3											Massive feldspar phyric andesite lava and autoclastic breccia. Pervasive chlorite alteration.
Que River	Que River	HED28	269.6	293.8		FA	A		Gn	A				An		S		Cl	P	3											Massive feldspar-hornblende phyric andesite lava. Pervasive chlorite alteration.
Que River	Que River	HED28	293.8	295		FZ	FZ		Gn	A				An		S		Cl	P	3											Broken and faulted feldspar-hornblende phyric andesite lava.
Que River	Que River	HED28	295	304.7		FA	A		Or	A				An		G2		Ab	P	2	Cl	P	1	Py	2	Ds					Bleached and albitised feldspar-hornblende phyric andesitic lava. Pervasive albite alteration. Weak disseminated and vughy vein pyrite.
Que River	Que River	HED28	304.7	309.3		FA	A		Gn	A				An				Cl	P	3				Py	1	Ds					Massive feldspar-hornblende phyric andesite lava. Pervasive chlorite alteration. Trace dissem py. Broken.

Hole details					Fabrics				Veins			Faults			
Project	Prospect	BHID	From	To	Type	Intensity	Alpha	Beta	Mineralogy 1	Intensity 1	Thickness	Style	Downhole width	Alpha	Beta
Que River	HBS	HED28	92.2	97.9								Ru	7.7		
Que River	HBS	HED28	110.7	110.9								Sh	0.2	20	
Que River	HBS	HED28	124.2	125.1								Sh	0.9	40	
Que River	HBS	HED28	280	280.9								Sh	0.9	30	
Que River	HBS	HED28	293.8	295.5								Ru	1.7		

Geotech Sheet

Project	Prospect	BHID	From	To	Recovery	Recovery% %	length>10cm	RQD%	Lithology	Weathering	Alteration	Strength	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill
Que River	HBS	HED28	0	0.7	0.4	57	0	0											
Que River	HBS	HED28	0.7	1.6	0.5	56	0	0											
Que River	HBS	HED28	1.6	3.1	1.1	73	0	0											
Que River	HBS	HED28	3.1	4	1	111	0.5	55.6											
Que River	HBS	HED28	4	5	1	100	0.8	80											
Que River	HBS	HED28	5	6.5	1.5	100	1.2	80											
Que River	HBS	HED28	6.5	8	1.5	100	1	66.7											
Que River	HBS	HED28	8	9.5	1.3	87	0.8	53.3											
Que River	HBS	HED28	9.5	10.1	0.6	100	0	0											
Que River	HBS	HED28	10.1	11.5	1.4	100	0.9	64.3											
Que River	HBS	HED28	11.5	13	1.3	87	0.2	13.3											
Que River	HBS	HED28	13	14.5	1.5	100	1.4	93.3											
Que River	HBS	HED28	14.5	16	0.8	53	0	0											
Que River	HBS	HED28	16	17.5	1.4	93	1.2	80											
Que River	HBS	HED28	17.5	19	1.3	87	1	66.7											
Que River	HBS	HED28	19	20.5	1.4	93	1.1	73.3											
Que River	HBS	HED28	20.5	22	1.1	73	0.8	53.3											
Que River	HBS	HED28	22	23.5	1.5	100	1.2	80											
Que River	HBS	HED28	23.5	25	1.3	87	0.7	46.7											
Que River	HBS	HED28	25	25.8	0.7	87	0.1	12.5											
Que River	HBS	HED28	25.8	26.5	0.7	100	0.2	28.6											
Que River	HBS	HED28	26.5	28	1.5	100	0	0											
Que River	HBS	HED28	28	29.5	1.1	73	0	0											
Que River	HBS	HED28	29.5	30.3	0.8	100	0.1	12.5											
Que River	HBS	HED28	30.3	32.5	2.1	95	0.5	22.7											
Que River	HBS	HED28	32.5	34	0.7	47	0	0											
Que River	HBS	HED28	34	35.5	0.5	33	0	0											
Que River	HBS	HED28	35.5	37	1.1	73	0	0											
Que River	HBS	HED28	37	39.3	2.3	100	0.2	8.7											
Que River	HBS	HED28	39.3	40	0.7	100	0	0											
Que River	HBS	HED28	40	41.5	1.5	100	0	0											
Que River	HBS	HED28	41.5	42.2	0.7	100	0	0											
Que River	HBS	HED28	42.2	43	0.8	100	0.3	37.5											
Que River	HBS	HED28	43	44.7	1.2	71	0	0											
Que River	HBS	HED28	44.7	45.2	0.5	100	0	0											
Que River	HBS	HED28	45.2	46	0.5	63	0	0											
Que River	HBS	HED28	46	49	3	100	2.8	93.3											
Que River	HBS	HED28	49	52	2.9	97	1.8	60											
Que River	HBS	HED28	52	55	3	100	2.7	90											
Que River	HBS	HED28	55	57.6	2.6	100	2.2	84.6											
Que River	HBS	HED28	57.6	58.5	0.9	100	0.3	33.3											
Que River	HBS	HED28	58.5	60.5	2	100	0.8	40											
Que River	HBS	HED28	60.5	62.5	2	100	0.4	20											
Que River	HBS	HED28	62.5	63.8	1.3	100	0.6	46.2											
Que River	HBS	HED28	63.8	65.8	2	100	1.6	80											
Que River	HBS	HED28	65.8	67	1.2	100	1	83.3											
Que River	HBS	HED28	67	68.8	1.8	100	1.5	83.3											
Que River	HBS	HED28	68.8	70.7	1.9	100	1.4	73.7											
Que River	HBS	HED28	70.7	73.8	3.1	100	2.8	90.3											
Que River	HBS	HED28	73.8	76.9	3.1	100	3	96.8											
Que River	HBS	HED28	76.9	80	3.1	100	2.7	87.1											
Que River	HBS	HED28	80	83.1	3.1	100	3.1	100											
Que River	HBS	HED28	83.1	85	1.9	100	0.4	21.1											
Que River	HBS	HED28	85	86	0.9	90	0	0											
Que River	HBS	HED28	86	87.7	1.6	94	0	0											
Que River	HBS	HED28	87.7	89.1	1.4	100	0.8	57.1											
Que River	HBS	HED28	89.1	92.2	3.1	100	2.7	87.1											
Que River	HBS	HED28	92.2	93.2	0.6	60	0	0											

Que River	HBS	HED28	93.2	93.5	0.2	67	0	0
Que River	HBS	HED28	93.5	94	0.2	40	0	0
Que River	HBS	HED28	94	95	0	0	0	0
Que River	HBS	HED28	95	95.8	0.8	100	0	0
Que River	HBS	HED28	95.8	96.5	0.6	86	0.2	28.6
Que River	HBS	HED28	96.5	97.9	0.9	64	0.2	14.3
Que River	HBS	HED28	97.9	98.6	0.7	100	0.5	71.4
Que River	HBS	HED28	98.6	99.6	0.4	40	0.3	30
Que River	HBS	HED28	99.6	103.2	3.6	100	3	83.3
Que River	HBS	HED28	103.2	103.9	0.7	100	0.5	71.4
Que River	HBS	HED28	103.9	107.9	4	100	2.4	60
Que River	HBS	HED28	107.9	109.9	2	100	1.8	90
Que River	HBS	HED28	109.9	111.8	1.9	100	1.1	57.9
Que River	HBS	HED28	111.8	114.9	3.1	100	3	96.8
Que River	HBS	HED28	114.9	118.8	3.6	92	2.6	66.7
Que River	HBS	HED28	118.8	121.4	2.6	100	0.7	26.9
Que River	HBS	HED28	121.4	122.4	1	100	1	100
Que River	HBS	HED28	122.4	125.4	3	100	2.7	90
Que River	HBS	HED28	125.4	128.7	3.3	100	0.8	24.2
Que River	HBS	HED28	128.7	130.3	1.6	100	0.5	31.2
Que River	HBS	HED28	130.3	131.6	1.3	100	0.4	30.8
Que River	HBS	HED28	131.6	132.4	0.8	100	0	0
Que River	HBS	HED28	132.4	133.8	1.4	100	0.3	21.4
Que River	HBS	HED28	133.8	135.2	1.4	100	0.7	50
Que River	HBS	HED28	135.2	136.3	1.1	100	0.4	36.4
Que River	HBS	HED28	136.3	137.8	1.3	87	0	0
Que River	HBS	HED28	137.8	138.7	0.9	100	0.3	33.3
Que River	HBS	HED28	138.7	139.5	0.8	100	0.2	25
Que River	HBS	HED28	139.5	139.9	0.4	100	0.1	25
Que River	HBS	HED28	139.9	141.2	1.3	100	0.5	38.5
Que River	HBS	HED28	141.2	142.2	1	100	0.3	30
Que River	HBS	HED28	142.2	143.9	1.7	100	0.6	35.3
Que River	HBS	HED28	143.9	144.7	0.8	100	0	0
Que River	HBS	HED28	144.7	145.8	1.1	100	0	0
Que River	HBS	HED28	145.8	146.9	1.1	100	0	0
Que River	HBS	HED28	146.9	149.3	2.4	100	0	0
Que River	HBS	HED28	149.3	149.8	0.5	100	0	0
Que River	HBS	HED28	149.8	150.8	0.8	80	0.1	10
Que River	HBS	HED28	150.8	151.8	1	100	0.6	60
Que River	HBS	HED28	151.8	153.8	2	100	1.6	80
Que River	HBS	HED28	153.8	154.6	0.8	100	0.3	37.5
Que River	HBS	HED28	154.6	155.6	0.9	90	0	0
Que River	HBS	HED28	155.6	155.9	0.3	100	0	0
Que River	HBS	HED28	155.9	156.5	0.6	100	0.1	16.7
Que River	HBS	HED28	156.5	157	0.5	100	0	0
Que River	HBS	HED28	157	157.8	0.8	100	0	0
Que River	HBS	HED28	157.8	158.1	0.3	100	0	0
Que River	HBS	HED28	158.1	158.8	0.7	100	0.2	28.6
Que River	HBS	HED28	158.8	159.3	0.5	100	0	0
Que River	HBS	HED28	159.3	159.6	0.2	67	0	0
Que River	HBS	HED28	159.6	160.7	1.1	100	0.2	18.2
Que River	HBS	HED28	160.7	161.2	0.5	100	0	0
Que River	HBS	HED28	161.2	161.9	0.7	100	0	0
Que River	HBS	HED28	161.9	162.2	0.3	100	0	0
Que River	HBS	HED28	162.2	162.7	0.5	100	0	0
Que River	HBS	HED28	162.7	163.5	0.8	100	0.5	62.5
Que River	HBS	HED28	163.5	164.2	0.7	100	0	0
Que River	HBS	HED28	164.2	165.2	1	100	0.1	10
Que River	HBS	HED28	165.2	166.3	1.1	100	0	0
Que River	HBS	HED28	166.3	167.4	1.1	100	0	0

Que River	HBS	HED28	167.4	169.7	2.3	100	0.5	21.7
Que River	HBS	HED28	169.7	171	1.3	100	0.1	7.69
Que River	HBS	HED28	171	172.1	1.1	100	0	0
Que River	HBS	HED28	172.1	173.1	1	100	0.2	20
Que River	HBS	HED28	173.1	173.8	0.3	43	0	0
Que River	HBS	HED28	173.8	174.6	0.8	100	0.8	100
Que River	HBS	HED28	174.6	175.4	0.8	100	0	0
Que River	HBS	HED28	175.4	176.3	0.9	100	0	0
Que River	HBS	HED28	176.3	177.6	0.8	62	0	0
Que River	HBS	HED28	177.6	177.9	0.3	100	0	0
Que River	HBS	HED28	177.9	178.1	0.2	100	0	0
Que River	HBS	HED28	178.1	178.5	0.2	50	0	0
Que River	HBS	HED28	178.5	179.4	0.9	100	0.8	88.9
Que River	HBS	HED28	179.4	180.2	0.8	100	0.4	50
Que River	HBS	HED28	180.2	181.3	0.6	55	0.3	27.3
Que River	HBS	HED28	181.3	182.4	1.1	100	0.1	9.09
Que River	HBS	HED28	182.4	182.7	0.3	100	0.2	66.7
Que River	HBS	HED28	182.7	183.8	1.1	100	0.9	81.8
Que River	HBS	HED28	183.8	184.9	1.1	100	0.8	72.7
Que River	HBS	HED28	184.9	186	1.1	100	0.8	72.7
Que River	HBS	HED28	186	186.2	0.2	100	0	0
Que River	HBS	HED28	186.2	186.8	0.6	100	0.2	33.3
Que River	HBS	HED28	186.8	187.8	1	100	0.4	40
Que River	HBS	HED28	187.8	188.3	0.5	100	0	0
Que River	HBS	HED28	188.3	188.5	0.2	100	0	0
Que River	HBS	HED28	188.5	189	0.4	80	0	0
Que River	HBS	HED28	189	189.9	0.9	100	0.4	44.4
Que River	HBS	HED28	189.9	191.2	1.3	100	0.8	61.5
Que River	HBS	HED28	191.2	194.2	3	100	2.8	93.3
Que River	HBS	HED28	194.2	197.2	3	100	2.3	76.7
Que River	HBS	HED28	197.2	199.4	2.2	100	2	90.9
Que River	HBS	HED28	199.4	202.5	3.1	100	2.8	90.3
Que River	HBS	HED28	202.5	205.6	3.1	100	3	96.8
Que River	HBS	HED28	205.6	208.7	3.1	100	2.9	93.5
Que River	HBS	HED28	208.7	211.8	3.1	100	3	96.8
Que River	HBS	HED28	211.8	214.9	3.1	100	3.1	100
Que River	HBS	HED28	214.9	215.4	0.5	100	0.3	60
Que River	HBS	HED28	215.4	217.2	1.6	89	0.4	22.2
Que River	HBS	HED28	217.2	219.8	2.6	100	2.2	84.6
Que River	HBS	HED28	219.8	221.1	1.3	100	0.5	38.5
Que River	HBS	HED28	221.1	224.2	3.1	100	2.8	90.3
Que River	HBS	HED28	224.2	226.6	2.4	100	2.1	87.5
Que River	HBS	HED28	226.6	229.5	2.9	100	2.5	86.2
Que River	HBS	HED28	229.5	232.1	2.6	100	2.3	88.5
Que River	HBS	HED28	232.1	233.4	1.3	100	1.1	84.6
Que River	HBS	HED28	233.4	235.2	1.6	89	1.2	66.7
Que River	HBS	HED28	235.2	238.6	3.4	100	3.2	94.1
Que River	HBS	HED28	238.6	239.4	0.8	100	0.7	87.5
Que River	HBS	HED28	239.4	242.4	3	100	3	100
Que River	HBS	HED28	242.4	245.4	3	100	3	100
Que River	HBS	HED28	245.4	248.4	3	100	3	100
Que River	HBS	HED28	248.4	249.3	0.9	100	0.9	100
Que River	HBS	HED28	249.3	251.4	2.1	100	2	95.2
Que River	HBS	HED28	251.4	254.4	3	100	2.8	93.3
Que River	HBS	HED28	254.4	255.9	1.5	100	1.3	86.7
Que River	HBS	HED28	255.9	259	3.1	100	3	96.8
Que River	HBS	HED28	259	262.1	3.1	100	3.1	100
Que River	HBS	HED28	262.1	265.2	3.1	100	3.1	100
Que River	HBS	HED28	265.2	268.3	3.1	100	3.1	100
Que River	HBS	HED28	268.3	271.4	3.1	100	3.1	100

Que River	HBS	HED28	271.4	272.4	1	100	0.9	90
Que River	HBS	HED28	272.4	275.3	2.9	100	2.6	89.7
Que River	HBS	HED28	275.3	278.4	3.1	100	2.8	90.3
Que River	HBS	HED28	278.4	280.4	2	100	1.5	75
Que River	HBS	HED28	280.4	280.9	0.5	100	0	0
Que River	HBS	HED28	280.9	283.8	2.9	100	2.9	100
Que River	HBS	HED28	283.8	285.2	1.4	100	1.2	85.7
Que River	HBS	HED28	285.2	287.4	2.2	100	2.2	100
Que River	HBS	HED28	287.4	290.4	3	100	3	100
Que River	HBS	HED28	290.4	291.5	1	91	0.5	45.5
Que River	HBS	HED28	291.5	292.2	0.7	100	0.2	28.6
Que River	HBS	HED28	292.2	294	1.8	100	0.6	33.3
Que River	HBS	HED28	294	294.7	0.7	100	0	0
Que River	HBS	HED28	294.7	295.3	0.6	100	0	0
Que River	HBS	HED28	295.3	296	0.7	100	0	0
Que River	HBS	HED28	296	297.9	1.9	100	1.6	84.2
Que River	HBS	HED28	297.9	299.5	1.6	100	1.4	87.5
Que River	HBS	HED28	299.5	302.4	2.9	100	2.9	100
Que River	HBS	HED28	302.4	305.4	3	100	3	100
Que River	HBS	HED28	305.4	306.8	1.4	100	1.4	100
Que River	HBS	HED28	306.8	307.4	0.6	100	0.3	50
Que River	HBS	HED28	307.4	307.9	0.5	100	0	0
Que River	HBS	HED28	307.9	308.4	0.5	100	0.2	40
Que River	HBS	HED28	308.4	309.3	0.9	100	0.1	11.1