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EL 3287

WESTERN MIDDLEBACK RANGE

PACE INITIATIVE : THEME 2, YEAR 5

**DRILLING PARTNERSHIP – STONY HILL AREA
ARCHAEOLOGICAL TO PROTEROZOIC STRATABOUND IRON
ORE MINERAL PROSPECTS**

PROJECT DPY5-40 FINAL REPORT

Submitted by
Centrex Metals Ltd
2008

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Enquiries: Customer Services Branch
Minerals and Energy Resources
7th Floor
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
Facsimile: (08) 8204 1880



Government of South Australia
Primary Industries and Resources SA

CENTREX METALS LIMITED

ABN: 97 096 298 752

STONY HILL PROJECT EL3287

PACE DRILLING COLLABORATION DPY5-40

1:250,000 Map Sheet Reference
KIMBA SI 53-07

compiled by:	Author:	Anthony Hayball
	Company:	Centrex Metals Ltd
	Date:	28/11/2008

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Centrex Metals Limited, Adelaide

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1. SUMMARY

Target: Iron Ore

Hutchison Group Iron Formation at EL3287, as indicated by detailed aeromagnetics, outcrop and two previous drill holes by BHP (ST1 and ST2), is deemed to offer high quality exploration targets for both hematite and magnetite. In the central zone the cumulative strike length of indicated Iron Formation is in the order of 8 km, with outlying magnetic anomalies indicating several more kilometers of strike length.

2. INTRODUCTION

EL3287 Stony Hill is located in the western Middleback Ranges and more specifically to the immediate west of One Steel's iron ore mines.

The Stony Hill tenement has an advantageous geological location in regards to it's proximity to One Steel's Iron Ore mines and contains encouraging host stratigraphy. The geophysics indicates favourable structural complexity and the area has only minimal exploration (2 drill holes).

Considering the unexplored nature of the western Middleback Ranges this drilling program has addressed a number of the key criteria as outlined in the PACE Guidelines. Specifically this project has focused on significant knowledge gaps in the State's geological information. Specifically, in regards to stratigraphy, structural relationships and potentially depth to basement.

Centrex Metals sourced an appropriate drill rig and experienced geological staff to work on this project.

3. LOCATION AND ACCESS

EL3287 Stony Hill is located about 40 kilometres south west of Iron Knob and about 20 kilometres west of Iron Baron. The company is exploring for iron ore and has identified a magnetic feature in the area using data from airborne surveys. The feature is about 15 kilometres long and stretches south of the Iron Knob to Kimba road. Existing roads and tracks were used to access the drill site.

Native Title and heritage issues :

The drilling program was carried out on private property used for agricultural purposes, mainly grazing.

Stony Hill and a number of rises to the south have a traditional significance. The area is cleared in its entirety except for the area of Stony Hill and the 3 other hills to the south. A buffer zone of 50 metres is maintained from the base of these hills. The area over which the exploration licence extends is part of the Barngarla Native Title claim (SC96/4).

Landowner issues :

The area accessed for drilling is part of a single landowners property and he was employed to assist with sampling and rehabilitation of both the drill sumps and access tracks.

Exploration Work Approval: An (EWA) was approved for this work.

4. REGIONAL GEOLOGY

The Gawler Craton is a stable crystalline basement province comprising Archaean to Mesoproterozoic rocks mantled in part by thin platformal sediments and regoliths of Neoproterozoic to Cainozoic age. The Gawler Craton is subdivided into a number of discrete tectonic subdomains. These include the Christie and Coultas Subdomains, the Cleve Subdomain, the Mononta Subdomain and the Wilgena, Nuyts and Nawa Subdomains of mixed or complex character. The Cleve Subdomain is a Palaeoproterozoic fold belt on eastern Eyre Peninsula

In the Middleback Ranges the iron deposits are broadly associated with northerly trending shear zones inferred to be parallel to sub-parallel subsidiary structures to a regional-scale through-going structure(s). The Iron Duke, Iron Duchess and Iron Knight deposits of the South Middleback Range are positioned adjacent to the Eastern Shear Zone. The through going structure is inferred to be associated with the Kalinjala structure, or potentially related to the Cleve-Moonta Domain boundary.

Deep drilling at Iron Duke has shown that hematite bearing iron formation persists at depths much greater than gneissic granitic basement exposed on the western side of the range, which may likewise be explained by faulting and/or folding associated with thrusting.

Iron Formation occurrences on the southern and eastern Eyre Peninsula often appear to have associated northerly trending through-going regional-scale structures. The preserved Iron Formations may allow the recognition of the through-going structures, or there may be a relationship between the through-going regional scale shear zones and the preservation (or formation?) of Iron Formations. Either way, the implications for mineralisation are positive with the regional structure offering a potential pathway for mineralising fluids.

Transverse crosscutting faults are inferred to be an important factor in localising high grade iron ore. The NW-SE trending Tournefort Dyke swarm provides evidence of a regional-scale structural grain that crosscuts the N-S trending Middleback Range. Regional magnetic images indicate that NW-SE structures intersect the Middleback Ranges at each of the three mining areas i.e. from north to south, the Iron Knob, Iron Baron and Iron Duke. It is inferred that structures associated with this regional structural grain are directly involved with protore development at locations where they intersect both receptive host rock and the northerly regional-scale structure. (see **Figure 1**, Middleback Range TMI – the three mine areas are located at the railway line terminations). The influence of cross faults on the development of protore (and subsequent high grade hematite) is also inferred to explain the pod-like distribution of ore at mining scale, deposit scale (i.e. the chain-of ponds effect of the Iron Duke, Iron Duchess North, Iron Duchess, Iron Knight South and Iron Knight in the South Middleback Range), and at prospect scale as indicated by the distribution of the Iron Duke, Iron Baron and Iron Knob camps.

Aside from few subdued examples, there are no stand-out structures crossing iron deposits in visible geophysical images of the South Middleback deposits. However, significant cross faults have been mapped at Iron Duke, and further highlighted through mining exposure. The influence of cross faults on the formation of residual ore is recognised in the Iron Duke where supergene development of high grade hematite occurs directly adjacent a NW-SE fault in what is otherwise low grade hematite-carbonate and magnetite-carbonate rock at depth. Therefore, all high amplitude magnetic anomalies with recognised Iron Formation in the Centrex tenements must be considered potential targets, whether cross faults are recognised or not. However, obvious breaks and faults in the high amplitude magnetic ridges offer immediate areas to focus attention as they may indicate the site of a protore feed zone or later supergene enrichment zone, or both.

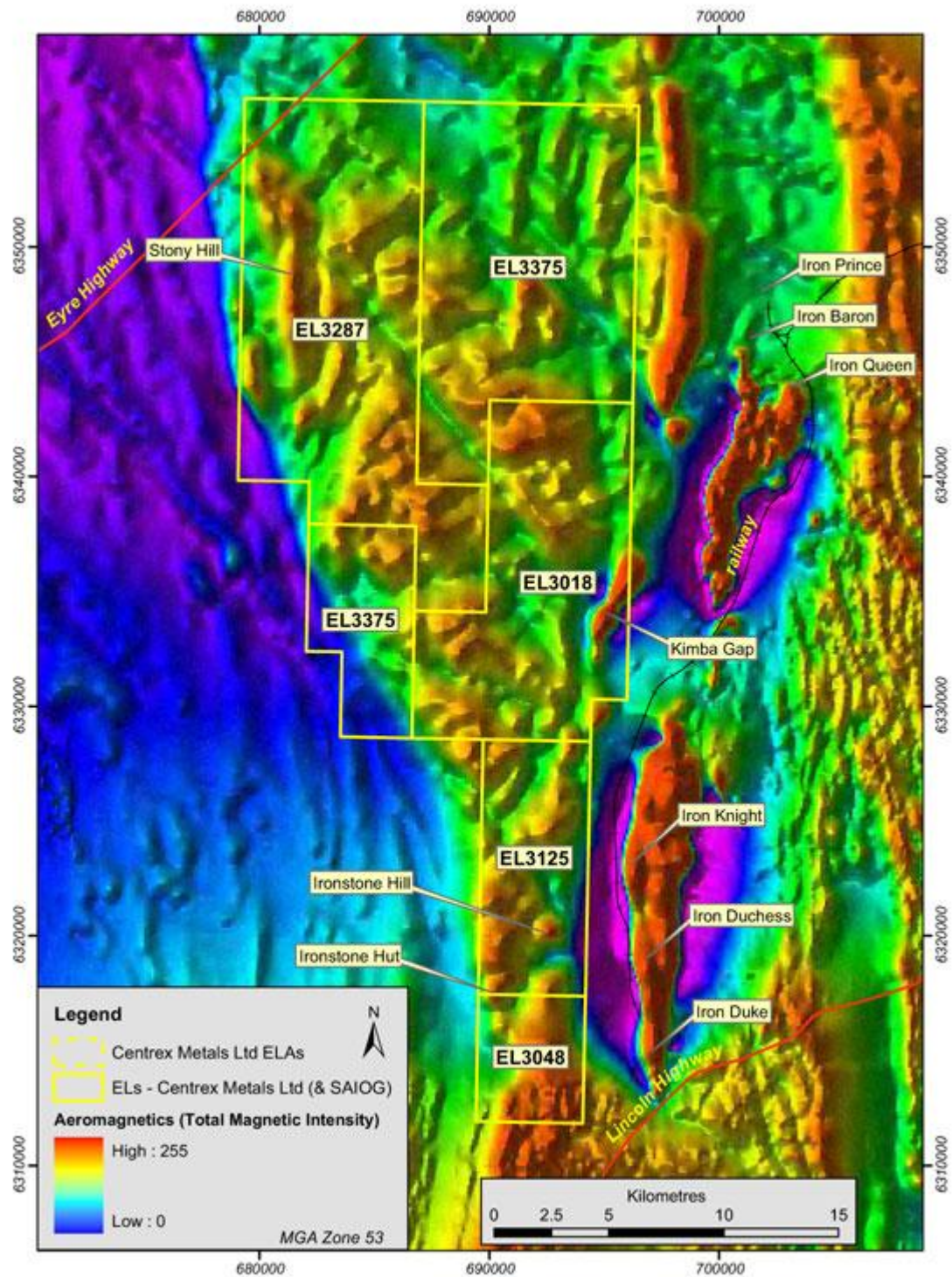


Figure 1. Western Middleback region: BIF outcrops/prospects in relation to Aeromagnetic imagery.

5. LOCAL GEOLOGY

If an imbricate thrust-fold system (i.e. multiple thrusts and multiple wedges of basement and overlying Iron Formation at various elevations) is invoked as a major influence on the present architecture of the Middleback Ranges and the area to the west, then the BIF in EL3287 can be interpreted as a structurally repeated slab of ore-hosting Middleback Range stratigraphy.

Therefore, although only mildly exposed relative to the ore bearing ranges to the east, the BIF at Stony Hill must be considered highly prospective for the discovery of further ore bodies in the region.

Target Zone 1 (see **figure 2**)—Intersection of NW structure with folded Iron Formation.

A significant NW structure is clearly evident transecting the main Iron Formation at its northern end in regional aeromagnetics. Detailed aeromagnetics (November 2005 Centrex Metals survey) reveals that this structure is filled by an amphibolite dyke (i.e. the bumpy “worm” appearance), and further, that two fold hinge zones can be interpreted in the Iron Formation adjacent to the dyke/structure. The trend of the dyke shows considerable variation as it approaches and crosses the BIF from the east, similar to observations near the Iron Princess (ore body north of Iron Knob) and in the Iron Baron area.

Target zone 1 is considered to be very highly prospective and warrants substantial drill testing. The area is under cover with no outcrop and the focus of this PACE report (see **figure 3**)

Target Zone 2 – Cross structures intersecting main central Iron Formation

Numerous NE and NW cross-cutting structures are evident in the aeromagnetics cross cutting the main central BIF anomaly, with some offsetting and depletion in magnetic intensity (the latter inferred to be possibly indicative of hematite development at the expense of magnetite). Magnetic images indicate three subparallel linear Iron Formation trends of varying magnetic intensity. It is interpreted that each of these trends represents the same stratigraphic layer repeated by intense isoclinal folding. The fold hinge zone mentioned above is inferred to represent one end of the isoclinal folding. Outcrop also shows internal folding within the linear trends. The two historical BHP holes were drilled on the western arm of the main trend approximately halfway between two NW cross structures. Both drill holes intersected Iron Formation lithologies. Drill hole ST2 intersected “jaspilite” from surface to 38 m.

These target areas are variably ranked as having moderate to high prospectivity depending on the degree of magnetic depletion. A detailed gravity survey will allow choosing of the best targets for drilling.

Target Zone 3 – A north west trending cross structure intersecting several occurrences of Iron Formation with each displaying moderate to strong depletion of magnetic intensity

A high amplitude magnetic anomaly representing a southern extension of the main central Iron Formation shows strong depletion of magnetism adjacent to a NW structure. An adjacent, though much weaker, magnetic anomaly to the east shows even more severe depletion of magnetism. Magnetic images of Iron Baron and Iron Prince show similar depletion of magnetism (See the Centrex Metals mineralisation model and/or Bubner et al. 2003 in Geophysical Signatures of South Australian Mineral Deposits, MC Dentith Editor) The NW structure also cuts the southern end of the main central anomaly where there is also an obvious depletion in the magnetic intensity.

This area is ranked as moderately prospective. A detailed gravity survey will be carried out prior to final drill target selection. The area is under cover with very little or no outcrop.

Target Zone 4 – Folded Iron Formation adjacent the Kalinjala Mylonite Zone and terminated by a NE cross structure

A further target area of clearly folded Iron Formation occurs on the western edge of EL3287 between 6342500N and 634600N, and lies adjacent to the Kalinjala Mylonite Zone. The Iron Formation is terminated by a NE structure. Due to the disruption by the Kalinjala Mylonite Zone the folding can be alternatively interpreted as drag folding adjacent the NE cross-cutting structure or as large scale sheath folding. Although the absolute magnetic intensity of this area is not high, the juxtaposition with the Kalinjala Mylonite Zone (i.e. potentially a significant

pathway for mineralising fluids) and the clearly visible folding makes this a very interesting hypothetical target zone. One line of holes are proposed to be drilled across the northern end of the anomaly adjacent the NE cross structure. Another line of holes is proposed for the central area.

An overall number of 50 drill holes have been designed however we initially intend to drill 25 of these holes in Phase 1. Once the data has been reviewed, in conjunction with the detailed gravity survey we will then re prioritise the remaining drill targets.

The area is under cover with no outcrop.

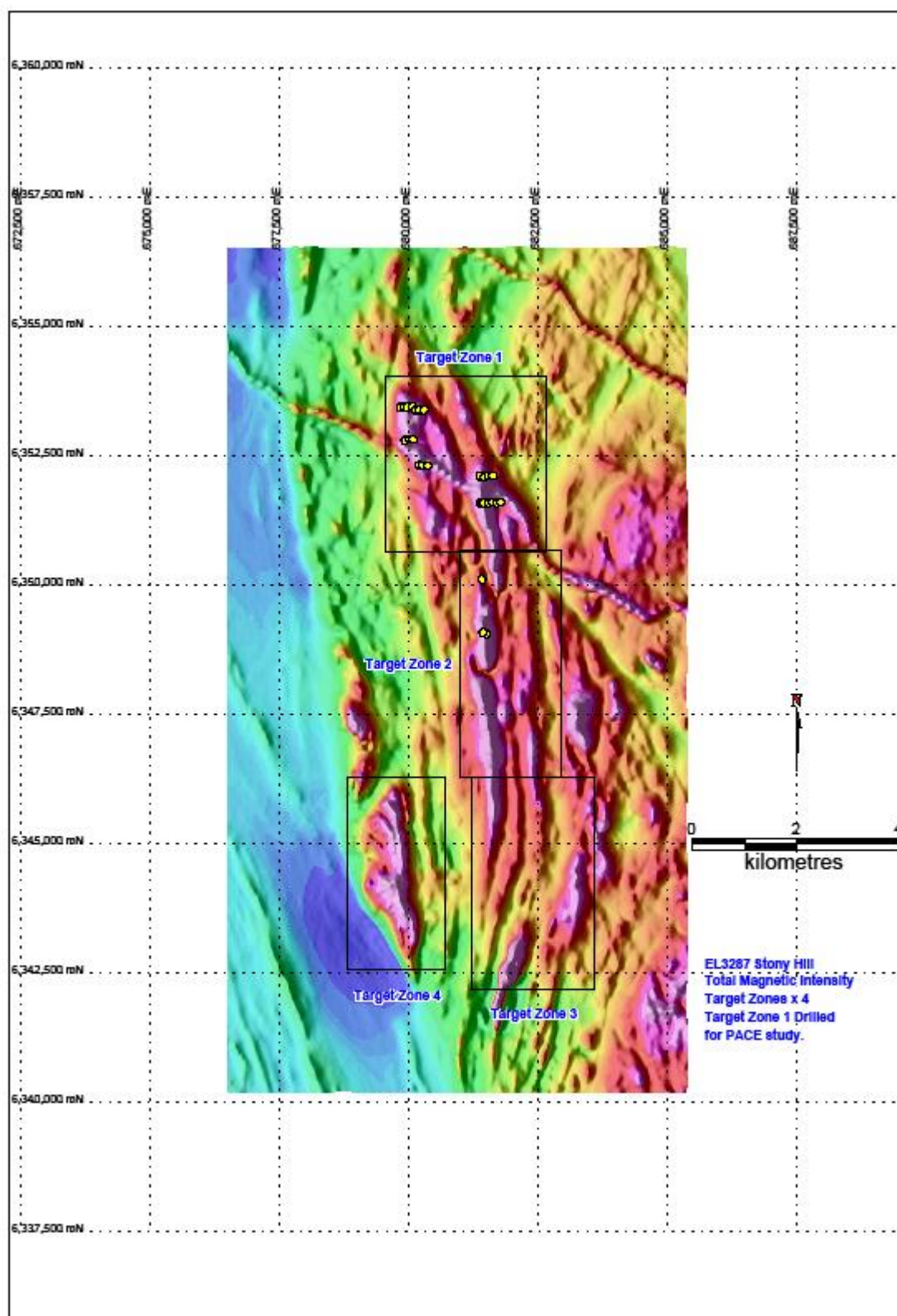


Figure 2. Intersection of NW structure with folded Iron Formation.

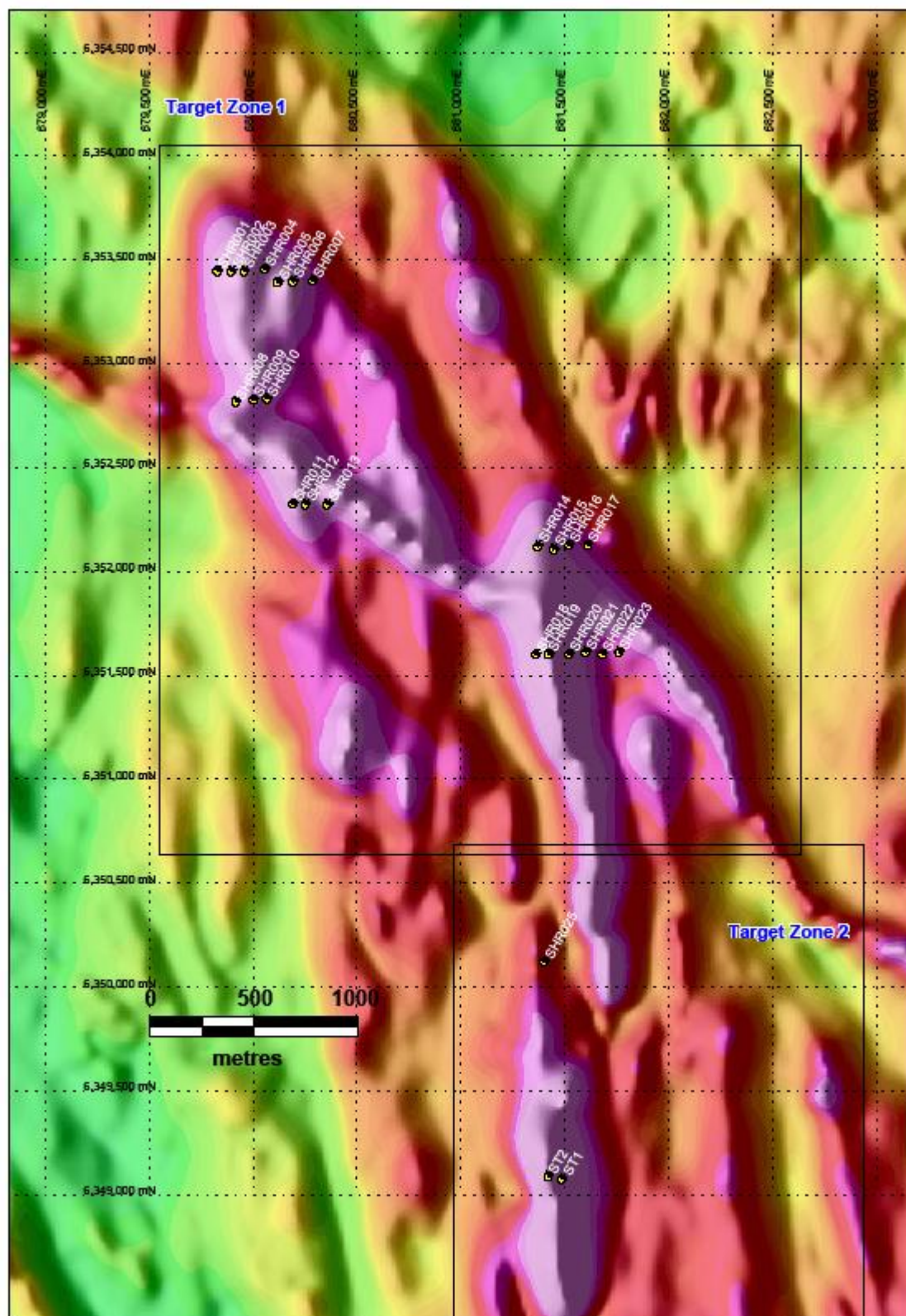


Figure 3. Drillholes completed in **Target Zone 1** as part of this PACE report.

6. PREVIOUS EXPLORATION

Hutchison Group Iron Formation at EL3287, as indicated by detailed aeromagnetics, outcrop and two previous drill holes by BHP (ST1 and ST2, see figure 3), is deemed to offer high quality exploration targets for both hematite and magnetite. In the central zone the cumulative strike length of indicated Iron Formation is in the order of 8 km, with outlying magnetic anomalies indicating several more kilometers of strike length.

7. PACE FUNDED DRILLING

Centrex commenced reverse circulation exploration at Stony Hill on 8th March 2008.

Drilling was based on the reasoning outlined for the Target 1 area in figure 2. That is, a major NW dyke intersecting two fold hinge zones of an iron formation. The NW trending dyke changes in magnetic signature as it traverses the fold structures. This same type of structural relationship is also evident in the Iron Princess (ore body north of Iron Knob) and in the Iron Baron area.

The depletion of the magnetic signature across the dyke suggests that hematite could be present in the vicinity of the drill holes, however no hematite mineralisation of any significance was encountered.

By 4th May 2008, 24 holes for a total of 2769 metres had been completed.

RC chips for SHR001 (41-42m, 73-74m) and SHR002 (51-52m, 71-72m) were sent for mineralogical petrographic analyses. Chips in SHR001 and SHR002 include quartz plagioclase-rich diorite to (gneissic) tonalite, also amphibolite or hornblende-rich chips, with biotite partly altered to chlorite. Veins variously contain calcite, adularia, epidote, and prehnite, with very minor secondary K-spar in some quartzofeldspathic chips. Abundant albite in the (partly gneissic) tonalite in SHR001, 73-74: SHR002, 51-22: and lesser in the quartz diorite to tonalite chips in SHR002, 71-72: commonly have a diffuse mottled reddish "staining" by hematite dust. This may represent incipient (hydrothermal) oxidation. Sparse actual crystalline hematite is interstitial in SHR002, 51-52m. The sample from SHR001, 73-74m, shows amphibolite cutting tonalite. There are no composite chips in SHR002, 71-72m, but single chips are hornblende-rich. The quartzofeldspathic samples of SHR001, 41-42m and SHR002, 51-52m include alteration of albite-sericite and clays or chlorite.

The best magnetite BIF intercept came from vertical hole SHR019 between 118-146m, with an average Fe head grade of 21.7%.

Drilling conditions in the area were very difficult and plagued by collapsing angled holes SHR001 and SHR002 together with abrasive bit and hammer wear. The drillers attempted to drill angled holes as per our drill plan but success was very limited and extremely slow. In an attempt to avoid budget blow outs, it was decided to drill vertical holes after completion of SHR001 and SHR002.

It is important to note that the tenement still displays promising targets based on aero-magnetic anomalies alone and Centrex Metals has only drilled one of the four target areas as outlined in **Figure 2**.

8. RECOMMENDATIONS FOR FUTURE DRILLING

Up to 4 geophysical target zones have been interpreted within Exploration Licence 3287. Centrex drilled wide spaced lines over 2 magnetic anomalies. These two magnetic anomalies recorded generally low grade magnetite BIF except in hole SHR019.

It is anticipated that EL3287 will be included as part of an airborne Full Tensor Gravity (FTG) survey planned for several of our tenements in 2009. This will lead to improved target identification and could be used to delineate both magnetite and hematite ore bodies.

At this time, target recognition will be reassessed and future drilling will concentrate on targets these new zones.

9. MINERALOGICAL REPORT No. 9319

See Appendix 5

10. DRILLING AND OTHER EXPENDITURE

RC drilling program (24 holes) undertaken by Underdale Drilling **Total \$ 248,946.47**

Total Expenditure Breakdown:

EL3287 Stony Hill (01 July 2007 to 30 June 2008)

Wages & Salaries	\$66,045.96
Management Services	\$144.00
Professional Services	\$9,079.58
Field Hand Services	\$2,055.00
Training/Conference/Courses	\$422.14
Recruitment Costs	\$1,944.09
Tenement Maintenance General	\$522.00
Stamp Duty	\$6.67
Tenement Map & Searches	\$39.52
Tenement Rents	\$72.27
Feasibility	\$6.20
Drilling	\$228,520.47
Equipment Hire	\$45.00
Contract Labour	\$22,131.25
Sampling Supplies	\$1,843.55
Petrology & Mineralogy	\$1,592.00
Accommodation & Meals	\$2,716.67
Entertaining	\$10.85
Food	\$2,647.30
Equipment Operating Costs	\$167.23
Freight & Couriers	\$420.45
Travel Expense	\$4,845.15
Vehicle Operating Costs	\$7,391.26
Communication	\$1,446.96
Computer Hardware	\$205.69
Computer Software & Licenses	\$571.10
Field Office Supplies	\$314.71
Field Office Safety	\$1,161.65
Rent	\$1,179.10
Maintenance	\$1.89
Insurance	\$71.01

\$357,620.72

EL3287 Stony Hill (01 July 2008 to 31 October 2008)

Wages & Salaries	\$18,996.89
Tenement Maintenance General	\$182.00
Environmental	\$1,575.00
Drilling	\$20,426.00
Contract Labour	\$3,375.00
Environmental Rehab	\$13,950.00
Food	\$18.71
Equipment Operating Costs	\$297.50
Travel Expense	\$126.97
Vehicle Availability Costs	\$14.59
Vehicle Operating Costs	\$1,801.34
Computer Software & Licenses	\$154.80
Field Office Supplies	\$17.59
	\$60,936.39

11. REHABILITATION

Drilling was taken place in open grazing land. Moderate to large amounts of salty water was produced from most drill holes. A loader was used to dig sumps at each drill site to collect the water so that it did not drain across the land. PVC sheets were used to capture any oil waste from the drill rig. Top soil was saved in a separate pile. Once completed, the drill holes were capped and backfilled in accordance with the relevant PIRSA Information Sheet guidelines. See before and after drilling images for drill hole SHR009 as an example. **Figures 4 and 5.**



Figure 4: SHR009 Pre Drilling



Figure 5: SHR009 Post Drilling

12. CORE LIBRARY SAMPLES

MINERAL SAMPLES SUBMISSION COVER SHEET

PIRSA Core Storage Facility

SAMPLE STATUS: Confidential? YES (Circle as applicable)

PROJECT INFORMATION

Tenement/Permit No: EL3287 Project Name: STONY HILL
 Port
 100 000 Map Sheet(s): Hd: Augusta Sec: H835200/B218
 Received from: Company Operator: CENTREX METALS LTD
 Department/ Section: SITE OFFICE Ph: 08 8687 3139
 Officer: Nat Gaughan
 Fax: 08 8687 3159 email ngaughan@centrexmetals.com.au
 Company ref/ Report Ref

SAMPLE INFORMATION

Classification (ie. purpose of drillhole/sample - indicate one only):

Mineral ☒ Engineering ☐ Petroleum ☐ Seismic ☐ Stratigraphic ☐ Groundwater ☐

Target commodity(s) (if applicable):

Hazardous Goods: Are any of the samples submitted hazardous in nature? No

If "Yes" or "possibly" please provide information for the following;

1. Nature of hazard eg. radioactive, asbestiform minerals etc.:

2. Have Materials Safety Data Sheets (see attachment 3-3.4) been submitted to the Drill Core Storage Facility prior to delivery? Yes / No

3. Special Handling Instructions:

Drillhole/Sample Names/Numbers (eg. RC1 -RC125): SHR007, 011, 015, 019, 020, 025.

Total number of samples submitted: 459 Drilling Date (MM/YY): 05/08

Total Number of trays/ctns/bags submitted: 14 trays (PQ)

AUTHORISATION

(Operator representative completing this form)

Print Name: N GAUGHAN Signature: Date: 6/6/08

NOTE: Cores and cuttings must be submitted in approved containers for long term storage – see Attachment 3 (parts a, b and c) for details

Drill Core Storage Facility Use Only

No. of Trays Received: Sample Type: (core / cut) Rack Location:
 Storage: Temporary / Permanent
 No of Cartons Received: Sample Type: (core / cut)
 Suitable Containers: (Y/N) Suitable Labelling: (Y/N) Adequate Documentation: (Y/N)
 Faxed copy of this page to Rob Shaw, PIRSA Minerals, 8463 3109 (Y/N)
 Date Received: / / Manager / Acting Manager:

Disposal Schedule: Review: 3mths ☐ 6mths ☐ 9mths ☐ 12mths ☐ Action: Retain / Discard

Date: / / Authorisation:



Government of South Australia
Primary Industries and Resources SA

Drill Core Storage Facility

23 Conyngham Street

GLENSIDE South Australia 5065

Phone +61 8 8379 9574

Fax +61 8 8338 1925

Business Hours: Monday to Friday – 7:30am to 4:00pm

pirsa.corelibrary@saugov.sa.gov.au

www.minerals.pir.sa.gov.au

STONY HILL EL 3287 PACE REPORT

COMPANY/OPERATOR: CENTREX METALS LTD.

PROJECT: STONY HILL

SHEET: 1 of 1

																	PIRSA Use Only
DRILLHOLE/SAMPLE NAME / NUMBER	CLASSIFICATION*	TOTAL DEPTH (metres)	INTERVAL SUBMITTED		DRILLING METHOD*	SAMPLE TYPE*	HAZARDOUS (Y/N)	EASTING / LONGITUDE	NORTHING / LATITUDE	ZONE	DATUM*	XY ACCURACY* (m)	SURVEY METHOD*	TENEMENT /PERMIT	DRILLING/SAMPLING COMP. DATE (DD/MM/YYYY)	CONFIDENTIAL (Y/N)	UNIT NO.
			FROM (metres)	TO (metres)													
SHR007	MW	102	0	102	RC	CT	N	680285	6353400	53	GDA94	5	GPSSN	EL3287	4/4/08	Y	
SHR011	MW	168	0	168	RC	CT	N	680190	6352325	53	GDA94	5	GPSSN	EL3287	12/4/08	Y	
SHR015	MW	180	0	180	RC	CT	N	681445	6352105	53	GDA94	5	GPSSN	EL3287	18/4/08	Y	
SHR019	MW	180	0	180	RC	CT	N	681420	6351600	53	GDA94	5	GPSSN	EL3287	24/4/08	Y	
SHR020	MW	180	0	180	RC	CT	N	681520	6351600	53	GDA94	5	GPSSN	EL3287	27/4/08	Y	
SHR025	MW	108	0	108	RC	CT	N	681400	6350120	53	GDA94	5	GPSSN	EL3287	5/5/08	Y	
XXXXXXXXXXXXXXXXX	X	XX	XXXXXXXXX	XXXXXXXXX	XX	X	X	XXXXXX	XXXXXXXXXX	X	XXXX	X	XXXX	XXXXXX	XXXXXXXXXXXXXXXXX		

13. REFERENCES

Drexel, JF, Preiss WV and Parker AJ (Eds), The geology of South Australia, Vol.1 The Precambrian, GSSA Bull.54, 1993.

Bubner G, Dentith M, Dhu T and Hillis R, Geophysical Exploration for Iron Ore in the Middleback Ranges, South Australia, in Dentith MC (Ed), 1993, Geophysical Signatures of South Australian Mineral Deposits.

Amdel, Pontifex Report 9319, 3008

Appendix 1

Drillhole Collars

Company Name	Tenement Number	Drilling Contractor	Rig Type	Drilling Method	Drillhole ID	Easting	Northing	RL	Dip	Azimuth	Depth (m)	Prospect	Start Drilling Date	End Drilling Date
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR001	679 825	6353 440	194	60	270	84	Stony Hill	9/03/2008	10/03/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR002	679 890	6353 440	194	60	270	78	Stony Hill	15/03/2008	16/03/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR003	679 955	6353 440	193	90	0	72	Stony Hill	28/03/2008	28/03/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR004	680 055	6353 450	194	90	0	54	Stony Hill	30/03/2008	30/03/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR005	680 115	6353 395	192	90	0	180	Stony Hill	30/03/2008	1/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR006	680 195	6353 400	193	90	0	120	Stony Hill	2/04/2008	3/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR007	680 280	6353 400	192	90	0	102	Stony Hill	3/04/2008	4/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR008	679 920	6352 830	191	90	0	102	Stony Hill	4/04/2008	5/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR009	680 000	6352 830	191	90	0	96	Stony Hill	8/04/2008	8/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR010	680 065	6352 830	191	90	0	59	Stony Hill	9/04/2008	9/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR011	680 190	6352 320	191	90	0	168	Stony Hill	10/04/2008	12/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR012	680 250	6352 320	188	90	0	42	Stony Hill	12/04/2008	12/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR013	680 355	6352 320	188	90	0	114	Stony Hill	14/04/2008	15/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR014	681 370	6352 120	197	90	0	102	Stony Hill	16/04/2008	16/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR015	681 440	6352 120	196	90	0	180	Stony Hill	17/04/2008	18/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR016	681 520	6352 120	198	90	0	102	Stony Hill	19/04/2008	19/04/2008
CXM	EL 3287	Underdale	MK10/	Reverse	SHR017	681 605	6352 120	198	90	0	96	Stony Hill	20/04/2008	21/04/2008

STONY HILL EL 3287 PACE REPORT

		Drillers	Investigator	Circulation										
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR018	681 360	6351 600	196	90	0	120	Stony Hill	22/04/2008	22/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR019	681 440	6351 600	196	90	0	180	Stony Hill	23/04/2008	24/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR020	681 520	6351 600	198	90	0	180	Stony Hill	25/04/2008	27/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR021	681 600	6351 610	197	90	0	123	Stony Hill	28/04/2008	29/04/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR022	681 680	6351 610	200	90	0	175	Stony Hill	30/04/2008	1/05/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR023	681 765	6351 610	201	90	0	132	Stony Hill	2/05/2008	2/05/2008
CXM	EL 3287	Underdale Drillers	MK10/ Investigator	Reverse Circulation	SHR025	681 400	6350 120	189	90	0	108	Stony Hill	3/05/2008	4/05/2008

Appendix 2

Drillhole Logs

Hole_Id	Depth_From	Depth_To	Interval	Litho1	Litho2	Min1	Min2	Min3	Stratigraphy	Description
SHR001	0	2	2	CLY						light brown clay
SHR001	2	4	2	CLY	SND					red brown clay and sand
SHR001	4	6	2	IRST						red brown magnetic iron stone
SHR001	6	8	2	SND	CLY					red brown sand and white clay
SHR001	8	10	2	CLY	SND					white clay and red brown sand
SHR001	10	12	2	CLY	SND					white clay and red brown sand
SHR001	12	14	2	CLY	SND					white to grey clay
SHR001	14	16	2	CLY	SND					white to grey clay water at 16m
SHR001	16	18	2	CLY	SND					white to grey clay
SHR001	18	20	2	CLY	SND					grey green clay with sand
SHR001	20	22	2	CLY	SND					grey clay with coarse sand
SHR001	22	24	2	CLY						grey and brown clay
SHR001	24	26	2	CLY						pink clay
SHR001	26	28	2	CLY						pink and grey clay
SHR001	28	30	2	CLY						yellow clay
SHR001	30	32	2	CLY						grey green clay
SHR001	32	34	2	CLY						grey green clay
SHR001	34	36	2	CLY						grey green clay
SHR001	36	38	2	CLY						orange clay
SHR001	38	40	2	CLY						brown clay
SHR001	40	42	2	JASP					Hutchison Group	pink to brown ?jaspilite with coarse quartz
SHR001	42	44	2	JASP					Hutchison Group	pink to brown ?jaspilite with coarse quartz
SHR001	44	46	2	JASP					Hutchison Group	brown to pink ?jaspilite
SHR001	46	48	2	JASP					Hutchison	brown to pink

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									Group	?jaspilite
SHR001	48	50	2	JASP					Hutchison Group	brown to pink ?jaspilite
SHR001	50	52	2	JASP	AMPH				Hutchison Group	pink jaspilite with minor grey amphibolite
SHR001	52	54	2	AMPH	JASP				Hutchison Group	dark grey amphibolite with minor jaspilite
SHR001	54	56	2	JASP	AMPH				Hutchison Group	pink jaspilite with minor grey amphibolite
SHR001	56	58	2	JASP	AMPH				Hutchison Group	pink jaspilite with minor grey amphibolite
SHR001	58	60	2	JASP	AMPH				Hutchison Group	pink jaspilite with minor grey amphibolite
SHR001	60	62	2	JASP	AMPH				Hutchison Group	pink jaspilite with minor grey amphibolite
SHR001	62	64	2	JASP	AMPH				Hutchison Group	pink jaspilite with minor grey amphibolite
SHR001	64	66	2	JASP	AMPH			MT	Hutchison Group	pink jaspilite with minor dolomite, trace magnetite
SHR001	66	68	2	JASP	DOM		DOM	MT	Hutchison Group	pink jaspilite with minor dolomite, trace magnetite
SHR001	68	70	2	JASP	DOM		DOM	MT	Hutchison Group	pink jaspilite with minor dolomite, trace magnetite
SHR001	70	72	2	JASP	DOM		DOM	MT	Hutchison Group	pink jaspilite with minor dolomite, trace magnetite
SHR001	72	74	2	DOM	JASP	DOM		MT	Hutchison Group	grey dolomite with minor jaspilite, trace magnetite
SHR001	74	76	2	DOM	JASP	DOM		MT	Hutchison Group	grey dolomite with minor jaspilite, trace magnetite
SHR001	76	78	2	DOM	JASP	DOM		MT	Hutchison Group	grey dolomite with minor jaspilite, trace magnetite
SHR001	78	80	2	DOM	JASP	DOM		MT	Hutchison Group	grey dolomite with minor jaspilite, trace magnetite
SHR001	80	82	2	DOM	JASP	DOM		MT	Hutchison	grey dolomite with

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									Group	minor jaspilite, trace magnetite
SHR001	82	84	2	DOM	JASP	DOM		MT	Hutchison Group	grey dolomite with minor jaspilite, trace magnetite EOH
SHR002	0	2	2	CLY	SND					brown clay and sand
SHR002	2	4	2	SND	CLY					brown sand and clay
SHR002	4	6	2	SND	CLY					brown sand and clay
SHR002	6	8	2	CLY						cream clay rich zone
SHR002	8	10	2	CLY						cream to brown clay
SHR002	10	12	2	CLY						Cream to brown clay
SHR002	12	14	2	QTZ	CLY					pink/clear quartz & white clay
SHR002	14	16	2	QTZ	CLY	GOE				pink/clear quartz & white clay & red brown Fe stone (goethite)
SHR002	16	18	2	QTZ	CLY					cream, clear quartz and white clay
SHR002	18	20	2	QTZ	CLY					grey quartz gravel with red clay
SHR002	20	22	2	QTZ	CLY					tan quartz gravel with tan clay
SHR002	22	24	2	CHRT	CLY				Hutchison Group	tan white chert with tan clay
SHR002	24	26	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	26	28	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	28	30	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz salt water at 30m SAMPLED
SHR002	30	32	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	32	34	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	34	36	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	36	38	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	38	40	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	40	42	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	42	44	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert, quartz
SHR002	44	46	2	CHRT	QTZ	CLY			Hutchison	tan 50/50 pink chert

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									Group	with quartz over growth & tan clay
SHR002	46	48	2	CHRT	QTZ	CLY			Hutchison Group	tan 50/50 pink chert with quartz over growth & tan clay
SHR002	48	50	2	CHRT	QTZ	CLY			Hutchison Group	tan 80/20 pink /black chert with quartz overgrowth & tan clay
SHR002	50	52	2	CHRT	QTZ	CLY			Hutchison Group	tan 80/20 pink /black chert with quartz overgrowth & tan clay
SHR002	52	54	2	CHRT	QTZ	CLY			Hutchison Group	grey 80/20 pink /black chert with quartz overgrowth & tan clay
SHR002	54	56	2	CHRT	CLY				Hutchison Group	grey/green pink/black chert with green accessory minerals and grey clay
SHR002	56	58	2	CHRT	CLY				Hutchison Group	grey/green pink/black chert with green accessory minerals and grey clay
SHR002	58	60	2	CHRT	CLY				Hutchison Group	grey/green pink/black chert with green accessory minerals and grey clay
SHR002	60	62	2	CHRT	CLY	MAG			Hutchison Group	cream pink black chert with minor magnetite and grey clay
SHR002	62	64	2	CHRT	CLY	MAG			Hutchison Group	cream pink black chert with minor magnetite and grey clay
SHR002	64	66	2	CHRT	CLY	MAG	DOM		Hutchison Group	cream pink black chert with minor magnetite and grey clay
SHR002	66	68	2	CHRT	MAG	DOM			Hutchison Group	grey 50/50 pink chert/black carbonaceous magnetite and grey clay
SHR002	68	70	2	CHRT	MAG	DOM			Hutchison Group	grey 50/50 pink chert/black carbonaceous magnetite and grey clay
SHR002	70	72	2	CHRT	MAG	DOM			Hutchison Group	dark grey 50/50 pink chert/black carbonaceous

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										magnetite and grey clay
SHR002	72	74	2	CHRT	MAG	DOM			Hutchison Group	dark grey 50/50 pink chert/black carbonaceous magnetite and grey clay
SHR002	74	76	2	CHRT	MAG	DOM			Hutchison Group	light grey 50/50 pink chert/black carbonaceous magnetite and grey clay
SHR002	76	78	2	CHRT	MAG	DOM			Hutchison Group	light grey 50/50 pink chert/black carbonaceous magnetite and grey clay
SHR003	0	2	2	CLY	SND	CCR				red clay/sand with nodular calcrete
SHR003	2	4	2	CLY	SND	CCR				red clay/sand with nodular calcrete
SHR003	4	6	2	SND	CLY					red sand with pale green clay nodules
SHR003	6	8	2	CLY	SND					red clay/sand
SHR003	8	10	2	CLY	SND	SIL?				red clay/sand + white clay + nodular ?silcrete
SHR003	10	12	2	CLY	SND	SIL?				yellow & white clay/sand + nodular ?silcrete
SHR003	12	14	2	CLY	GRIT					white & yellow clay + silica grit
SHR003	14	16	2	CLY	SDST/SIL?					white & yellow clay + silica gravel
SHR003	16	18	2	SND						white to pale grey silica flour
SHR003	18	20	2	SND	CLY					brown sand with minor clay + silica grit (?chert)
SHR003	20	22	2	SND	CLY					brown sand with minor clay + silica grit (?chert)
SHR003	22	24	2	SND	CLY					brown sand with minor clay + silica grit (?chert)
SHR003	24	26	2	SND	SIL/CHRT					brown sand + nodular silcrete/chert
SHR003	26	28	2	SND	SIL/CHRT					brown & olive sands +

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										silcrete/chert
SHR003	28	30	2	SND	SIL/CHRT					brown & olive sands + silcrete/chert
SHR003	30	32	2	SND	SIL/CHRT					brown grey & olive sands + silcrete/chert
SHR003	32	34	2	SND	SIL/CHRT					olive & pale brown sand + silcrete/chert
SHR003	34	36	2	SND	SIL/CHRT					olive & pale brown sand + silcrete/chert
SHR003	36	38	2	SIL	CHBIF	HEM			Hutchison Group	silica + minor chert/hematite
SHR003	38	40	2	CHBIF?	SIL	HEM	MT		Hutchison Group	chert/hematite + silica
SHR003	40	42	2	CHBIF	AMPH	MT			Hutchison Group	chert/magnetite BIF + minor amphibole
SHR003	42	44	2	CHRT	MTO	MT	CAR		Hutchison Group	chert + magnetite + trace carbonate
SHR003	44	46	2	MTS	MTO	MT			Hutchison Group	magnetite-quartz
SHR003	46	48	2	MTS	GRT	MT			Hutchison Group	magnetite-quartz + granite
SHR003	48	50	2	GRT	MTS	MT			Hutchison Group	granite + minor magnetite-quartz
SHR003	50	52	2	GRT	MTS	MT	SUL		Hutchison Group	granite + magnetite-quartz + trace ?pyrite
SHR003	52	54	2	GRT	MTS	MT			Hutchison Group	granite + quartz-magnetite
SHR003	54	56	2	GRT	MTS	MT			Hutchison Group	granite + quartz-magnetite
SHR003	56	58	2	GRT	MTO	MT			Hutchison Group	granite + magnetite + magnetite-quartz
SHR003	58	60	2	MTS	MTO	MT	graphite?		Hutchison Group	magnetite + magnetite-quartz + minor amphibolite & granite. Trace ?graphite
SHR003	60	62	2	GRT	MTS	MT	EP?		Hutchison Group	granite with ?epidote + magnetite-quartz
SHR003	62	64	2	GRT	MTS	MT	DOM	EP?	Hutchison Group	granite + magnetite-quartz + dolomite + minor ?epidote
SHR003	64	66	2	CHRT	GRT	MT			Hutchison Group	chert + granite + minor magnetite
SHR003	66	68	2	CHRT	MTS	MT			Hutchison Group	chert + magnetite-quartz + amphibolite
SHR003	68	70	2	CHRT	MTS	MT	DOM	EP?	Hutchison Group	chert + minor magnetite-quartz +

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										dolomite + ?epidote
SHR003	70	72	2	CHRT		MT	DOM		Hutchison Group	chert + minor magnetite & dolomite HOLE INTERRUPTED AT 72m BY DRILL PROBLEMS
SHR004	0	2	2	CLY	SND	CCR				red clay & sand with nodular calcrete
SHR004	2	4	2	CLY	SND	CCR				red clay & sand with nodular calcrete
SHR004	4	6	2	SND	CLY					red sand with pale green clay nodules
SHR004	6	8	2	CLY	SND					red clay/sand + white clay
SHR004	8	10	2	CLY	SND					red clay/sand + white clay
SHR004	10	12	2	CLY	SND	SIL?				red/white/yellow clay & sand + nodular ?silcrete
SHR004	12	14	2	CLY	SND	CHRT				red clay & sand + chert/silcrete
SHR004	14	16	2	SND	CLY	CHRT				yellow & brown sands/clays + chert
SHR004	16	18	2	CLY	SND					yellow & red clay/sand + chert + ?granite
SHR004	18	20	2	CLY	GRT					yellow clay + granite
SHR004	20	22	2	CLY	GRT	CHL	HM			yellow clay + granite/amphibolite. Chlorite alteration + trace hematite
SHR004	22	24	2	CLY	GRT					yellow clay + pink granite
SHR004	24	26	2	GRT	CLY					pink granite + yellow clay
SHR004	26	28	2	CHRT	GRT	CLY			Hutchison Group	chert + pink granite + yellow-brown clay
SHR004	28	30	2	GRT	CHRT	CLY			Hutchison Group	pink granite + chert + brown clay. ?muscovite alteration on granite
SHR004	30	32	2	GRT	CHRT	CLY			Hutchison Group	pink granite + chert + brown clay. ?muscovite alteration on granite
SHR004	32	34	2	GRT	CHBIF?	MT			Hutchison Group	pink granite + chert with minor magnetite + ?shale

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SHR004	34	36	2	GRT	GNS	EP?	ilmenite?		Hutchison Group	pink silicified granite-gneiss with ?epidote veins and trace aligned ?ilmenite
SHR004	36	38	2	GNS		muscovite	ilmenite?		Hutchison Group	pink silicified gneiss with muscovite alteration + trace ?ilmenite
SHR004	38	40	2	GNS?		muscovite	ilmenite?	tourmaline	Hutchison Group	pink silicified gneiss with muscovite alteration + minor tourmaline & ?ilmenite
SHR004	40	42	2	GNS/GRT		muscovite	ilmenite?		Hutchison Group	pink silicified granite-gneiss with muscovite alteration + minor ?ilmenite
SHR004	42	44	2	GRT/GNS	CHBIF?		ilmenite?		Hutchison Group	pink silicified gneiss-granite. Minor chert with iron staining. Trace ?ilmenite
SHR004	44	46	2	GNS	CHRT				Hutchison Group	pink silicified gneiss + minor chert
SHR004	46	48	2	CHRT	SCH	MT			Hutchison Group	chert + silicified schist-quartzite + minor gneiss. Trace magnetite
SHR004	48	50	2	SCH	JASP?	MT			Hutchison Group	schist-quartzite + magnetite schist + ?jaspilite
SHR004	50	52	2	SCH	JASP?	MTS			Hutchison Group	schist-quartzite + ?jaspilite + minor magnetite-silica
SHR004	52	54	2	CHRT	JASP?	MTS			Hutchison Group	chert + ?jaspilite + schist + minor magnetite-silica-feldspar rock END OF HOLE 54m due to bogging, caving and blowout
SHR005	0	2	2	CLY	SND	CCR				red clay & sand + nodular calcrete
SHR005	2	4	2	CLY	SND	CCR	laterite			red clay & sand + nodular calcrete
SHR005	4	6	2	SND	CLY					red & white sand + clay
SHR005	6	8	2	SND	CLY					red sand + minor white clay
SHR005	8	10	2	SND	CLY					red & white sands &

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									clay
SHR005	10	12	2	SND		laterite			white & red sands + minor laterite/silica
SHR005	12	14	2	CLY	GRN?				yellow clay + weathered ?granite
SHR005	14	16	2	CLY	SND	GRN?			yellow clay & sand + minor weathered granite
SHR005	16	18	2	CLY	GRN	CHRT?			yellow clay + weathered granite + silica
SHR005	18	20	2	CHRT	GRN				Hutchison Group yellow clay + chert + weathered granite
SHR005	20	22	2	GRN	JASP?	HM			Hutchison Group yellow clay + weathered granite & ?jaspilite. Trace hematite
SHR005	22	24	2	CHRT	JASP?	HM			Hutchison Group yellow clay + chert + ?jaspilite. Minor hematite
SHR005	24	26	2	CHRT	JASP?	HM			Hutchison Group yellow clay + chert + ?jaspilite. Minor hematite
SHR005	26	28	2	CHRT	QZT/vein	pyrite			Hutchison Group chert + quartzite + vein quartz. Trace pyrite
SHR005	28	30	2	CHRT	JASP?				Hutchison Group chert + ?jaspilite/quartzite + minor granite
SHR005	30	32	2	JASP?	CHRT/QZT				Hutchison Group ?jaspilite + chert + quartzite
SHR005	32	34	2	JASP?	CHRT/QZT				Hutchison Group ?jaspilite + chert + quartzite
SHR005	34	36	2	JASP?	CHRT/QZT				Hutchison Group ?jaspilite + chert + quartzite
SHR005	36	38	2	JASP?	CHRT/QZT				Hutchison Group ?jaspilite + chert + quartzite
SHR005	38	40	2	JASP?	CHRT/QZT				Hutchison Group ?jaspilite + chert + quartzite. Trace granite
SHR005	40	42	2	JASP?	CHRT/QZT	MT			Hutchison Group ?jaspilite + chert + quartzite. Trace granite & magnetite
SHR005	42	44	2	JASP?	CHRT/QZT	pyrite			Hutchison Group ?jaspilite + chert + quartzite. Minor granite/gneiss + trace pyrite
SHR005	44	46	2	JASP?	CHRT/QZT	pyrite	?EP		Hutchison ?jaspilite + chert +

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									Group	quartzite. Minor granite + ?epidote. Trace schist & pyrite
SHR005	46	48	2	JASP	CHBIF	MT	pyrite		Hutchison Group	jasplite + chert/magnetiteBIF. trace pyrite & schist
SHR005	48	50	2	JASP	BIF	MT	pyrite		Hutchison Group	jasplite + magnetite BIF + trace pyrite
SHR005	50	52	2	JASP	BIF	MT	pyrite	DOM	Hutchison Group	jasplite + magnetite BIF + trace pyrite & dolomite
SHR005	52	54	2	JASP	BIF	MT	pyrite	DOM	Hutchison Group	jasplite + magnetite BIF + trace pyrite & dolomite
SHR005	54	56	2	JASP	BIF	MT	pyrite	graphite	Hutchison Group	jasplite + magnetite BIF + trace pyrite & graphite
SHR005	56	58	2	JASP	CHBIF?	MT			Hutchison Group	jasplite + silica + magnetite
SHR005	58	60	2	CHBIF?	JASP?	MT			Hutchison Group	red silica + magnetite
SHR005	60	62	2	CHBIF?		MT			Hutchison Group	red silica + magnetite
SHR005	62	64	2	CHBIF?		MT	pyrite		Hutchison Group	white silica + magnetite + trace pyrite
SHR005	64	66	2	CHBIF?	JASP	MT	pyrite	?EP	Hutchison Group	silica + jaspilite + magnetite + minor pyrite & ?epidote
SHR005	66	68	2	CHBIF?	JASP	MT	pyrite		Hutchison Group	silica + jaspilite + magnetite + minor pyrite
SHR005	68	70	2	CHBIF?	GRT	MT	pyrite		Hutchison Group	silica + magnetite + granite + trace pyrite
SHR005	70	72	2	CHBIF?	GRT	MT			Hutchison Group	silica + magnetite + granite
SHR005	72	74	2	CHBIF?	GRT	MT	pyrite		Hutchison Group	silica + magnetite + granite + trace pyrite
SHR005	74	76	2	JASP	CHBIF?	MT	pyrite		Hutchison Group	jasplite + silica + magnetite + minor pyrite & granite
SHR005	76	78	2	BIF	AMPH/GRT	MT	pyrite		Hutchison Group	magnetite BIF + ?hornblende granite + minor pyrite. Possibly a shear zone?
SHR005	78	80	2	GRT/GNS	BIF	MT	?hornblende	pyrite	Hutchison Group	granite/gneiss + magnetite BIF. Minor ?hornblende. Trace

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										pyrite
SHR005	80	82	2	BIF	MTS	MT	pyrite		Hutchison Group	magnetite BIF + magnetite-silica. Minor pyrite
SHR005	82	84	2	MTS	GRT/GNS	MT	pyrite		Hutchison Group	magnetite-silica + granite-gneiss. Trace pyrite
SHR005	84	86	2	MTS	GRT	MT	pyrite		Hutchison Group	magnetite-silica + granite. minor pyrite
SHR005	86	88	2	GRT	MTS	MT	pyrite?		Hutchison Group	magnetite granite + magnetite-silica. Trace ?pyrite
SHR005	88	90	2	GRT		MT	pyrite		Hutchison Group	magnetite granite + minor magnetite-silica + trace pyrite
SHR005	90	92	2	GRT/GNS		MT	CAR	pyrite	Hutchison Group	magnetite granite-gneiss + minor carbonate (?veins) & pyrite
SHR005	92	94	2	GRT		MT	CAR		Hutchison Group	granite + minor magnetite & carbonate
SHR005	94	96	2	GRT	MTS	MT			Hutchison Group	granite + magnetite-silica + trace carbonate & pyrite
SHR005	96	98	2	GRT		MT			Hutchison Group	granite + minor magnetite
SHR005	98	100	2	GRT	MTS	MT	EP?		Hutchison Group	granite + magnetite-silica + trace ?epidote
SHR005	100	102	2	GRT	MTS	MT			Hutchison Group	granite + magnetite-silica + magnetite granite
SHR005	102	104	2	GRT	MTS	MT	pyrite		Hutchison Group	granite + magnetite-silica + magnetite granite + trace pyrite
SHR005	104	106	2	GRT	MTS	MT	EP?		Hutchison Group	magnetite granite + magnetite-silica + minor ?epidote granite
SHR005	106	108	2	GRT	MTS	MT			Hutchison Group	magnetite granite + magnetite-silica
SHR005	108	110	2	GRT	MTS	MT			Hutchison Group	magnetite granite + magnetite-silica
SHR005	110	112	2	GRT	MTS	MT			Hutchison Group	magnetite granite + magnetite-silica
SHR005	112	114	2	GRT	MAF	MT			Hutchison Group	granite + ?dolerite + minor magnetite
SHR005	114	116	2	GRT		MT			Hutchison Group	magnetite granite

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SHR005	116	118	2	GRT		MT	?hornblende		Hutchison Group	magnetite granite + ?hornblende granite
SHR005	118	120	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	120	122	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	122	124	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	124	126	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	126	128	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	128	130	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	130	132	2	GRT	GNS?	MT			Hutchison Group	magnetite granite + minor gneiss
SHR005	132	134	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	134	136	2	GRT	MAF	MT	pyrite		Hutchison Group	magnetite granite + minor ?dolerite. Trace pyrite in the dolerite
SHR005	136	138	2	GRT	MAF	MT			Hutchison Group	magnetite granite + trace ?dolerite
SHR005	138	140	2	GRT	MTS	MT			Hutchison Group	magnetite granite + magnetite-silica
SHR005	140	142	2	GRT		MT			Hutchison Group	pink granite + trace magnetite
SHR005	142	144	2	GRT	MAF	chlorite			Hutchison Group	pink granite + minor ?dolerite with slight chlorite alteration
SHR005	144	146	2	GRT	MAF	MT			Hutchison Group	pink granite + minor ?dolerite & magnetite granite
SHR005	146	148	2	GRT	?MAF	chlorite			Hutchison Group	magnetite granite + ?dolerite/amphibolite with chlorite alteration
SHR005	148	150	2	GRT		MT			Hutchison Group	pink granite + minor magnetite
SHR005	150	152	2	GRT		MT			Hutchison Group	pink granite + magnetite granite
SHR005	152	154	2	GRT		MT			Hutchison Group	pink granite + magnetite granite
SHR005	154	156	2	GRT	MAF	MT			Hutchison Group	pink granite + minor amphibolite + trace magnetite
SHR005	156	158	2	GRT		MT			Hutchison Group	magnetite granite

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SHR005	158	160	2	GRT		MT			Hutchison Group	grey granite + minor magnetite
SHR005	160	162	2	GRT					Hutchison Group	pink & grey granite
SHR005	162	164	2	MAF	QTZ	chlorite			Hutchison Group	amphibolite + quartz + minor chlorite alteration
SHR005	164	166	2	GRT	MAF	MT			Hutchison Group	magnetite granite + minor amphibolite
SHR005	166	168	2	GRT	MAF				Hutchison Group	pink granite + amphibolite
SHR005	168	170	2	GRT	MAF	MT	pyrite		Hutchison Group	grey granite + amphibolite + magnetite. Minor pyrite in the amphibolite
SHR005	170	172	2	GRT					Hutchison Group	pink granite
SHR005	172	174	2	GRT		MT			Hutchison Group	magnetite granite
SHR005	174	176	2	GRT		MT			Hutchison Group	pink & grey granite + minor magnetite granite
SHR005	176	178	2	GRT	MTS	MT			Hutchison Group	grey granite + minor magnetite-silica
SHR005	178	180	2	GRT					Hutchison Group	grey granite
SHR006	0	2	2	CLY		CLY				brown and grey clay
SHR006	2	4	2	CLY		CLY				red brown clay
SHR006	4	6	2	CLY		CLY				grey clay with minor calcrete
SHR006	6	8	2	CLY	CCR	CLY				brown clay and iron oxide
SHR006	8	10	2	CLY	BIFOX	CLY				brown clay and iron oxide
SHR006	10	12	2	CLY	BIFOX	CLY				brown clay and iron oxide
SHR006	12	14	2	GRT		QTZ	FD			slightly weathered granite with pink feldspar
SHR006	14	16	2	GRT		QTZ	FD			slightly weathered granite with pink feldspar
SHR006	16	18	2	GRT		QTZ	FD			slightly weathered granite with pink feldspar
SHR006	18	20	2	GRT		QTZ	FD			pink granite

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SHR006	20	22	2	GRT		QTZ	FD			pink granite
SHR006	22	24	2	GRT		QTZ	FD			pink granite
SHR006	24	26	2	GRT		QTZ	FD			pink granite
SHR006	26	28	2	GRT		QTZ	FD	CHL		pink granite with trace of chlorite
SHR006	28	30	2	GRT		QTZ	FD			pink granite
SHR006	30	32	2	GRT		QTZ	FD			pink granite
SHR006	32	34	2	GRT		QTZ	FD			grey granite
SHR006	34	36	2	GRT		QTZ	FD			pink granite
SHR006	36	38	2	GRT		QTZ	FD			pink granite
SHR006	38	40	2	JASP		CHRT			Hutchison Group	dark pink jaspilite
SHR006	40	42	2	JASP		CHRT			Hutchison Group	dark pink jaspilite
SHR006	42	44	2	JASP		CHRT			Hutchison Group	dark pink jaspilite
SHR006	44	46	2	JASP		CHRT			Hutchison Group	dark pink jaspilite
SHR006	46	48	2	GRT		QTZ	FD		Hutchison Group	pink granite
SHR006	48	50	2	GRT		QTZ	FD		Hutchison Group	pink granite
SHR006	50	52	2	GRT		QTZ	FD	MT	Hutchison Group	pink granite with 5% magnetite
SHR006	52	54	2	GRT		QTZ	FD	MT	Hutchison Group	pink granite with 5% magnetite. Strong water flow at 52m
SHR006	54	56	2	GRT		QTZ	FD	MT	Hutchison Group	pink granite with 5% magnetite
SHR006	56	58	2	GRT		QTZ	FD	MT	Hutchison Group	pink granite with 5% magnetite
SHR006	58	60	2	GRT		QTZ	FD		Hutchison Group	slightly calcareous pink granite
SHR006	60	62	2	GRT		QTZ	FD		Hutchison Group	slightly calcareous pink granite
SHR006	62	64	2	GRT	AMPH	QTZ	AMP		Hutchison Group	pink granite with minor amphibolite
SHR006	64	66	2	JASP	BIF	JAS	CHRT		Hutchison Group	jaspilite and BIF
SHR006	66	68	2	JASP	BIF	JAS	CHRT		Hutchison Group	jaspilite and BIF
SHR006	68	70	2	JASP	BIF	JAS	CHRT		Hutchison Group	jaspilite and BIF
SHR006	70	72	2	JASP	BIF	JAS	CHRT	MT	Hutchison Group	jaspilite and BIF
SHR006	72	74	2	JASP	BIF	JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite

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SHR006	74	76	2	JASP	BIF	JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	76	78	2	JASP	BIF	JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	78	80	2	JASP	BIF	JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	80	82	2	JASP	BIF	JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	82	84	2	JASP	BIF	JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	84	86	2	AMPH	GRT	AMP	QTZ		Hutchison Group	amphibolite with minor granite
SHR006	86	88	2	AMPH		AMP		MT	Hutchison Group	amphibolite with magnetite
SHR006	88	90	2	AMPH	GRT	AMT	QTZ	MT	Hutchison Group	amphibolite and granite with minor magnetite
SHR006	90	92	2	GRT		QTZ		MT	Hutchison Group	pink granite with trace magnetite
SHR006	92	94	2	GRT		QTZ		MT	Hutchison Group	pink granite with trace magnetite
SHR006	94	96	2	GRT		QTZ		MT	Hutchison Group	grey granite with trace magnetite
SHR006	96	98	2	JASP		QTZ			Hutchison Group	jaspilite with vein quartz
SHR006	98	100	2	JASP		CHRT		EP	Hutchison Group	jaspilite with epidote
SHR006	100	102	2	JASP		CHRT		EP	Hutchison Group	jaspilite with epidote
SHR006	102	104	2	AMPH	GRT	AMP	QTZ		Hutchison Group	amphibolite and granite
SHR006	104	106	2	JASP		CHRT			Hutchison Group	jaspilite
SHR006	106	108	2	JASP		CHRT			Hutchison Group	jaspilite
SHR006	108	110	2	AMPH	GRT				Hutchison Group	amphibolite and granite
SHR006	110	112	2	AMPH	GRT				Hutchison Group	amphibolite and granite
SHR006	112	114	2	JASP		JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	114	116	2	JASP		JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	116	118	2	JASP		JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite
SHR006	118	120	2	JASP		JAS	CHRT	MT	Hutchison Group	jaspilite with trace magnetite. END of

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									HOLE
SHR007	0	2	2	CLY	SND	CLY	SND		Brown clay and sand
SHR007	2	4	2	CLY	SND	CLY	SND		Brown - red clay and sand
SHR007	4	6	2	CLY	SND	CLY	SND		Red clay and sand
SHR007	6	8	2	GRT	HML	QTZ	HEM	FD	Weathered granite with trace hematite
SHR007	8	10	2	GRT	HML	QTZ	HEM	FD	Weathered granite with trace hematite
SHR007	10	12	2	GRT	HML	QTZ	HEM	FD	Weathered granite with hematite, feldspar
SHR007	12	14	2	GRT	CLY	QTZ	FD	JASP	Clay, weathered granite with Feldspar, Jaspilite
SHR007	14	16	2	GRT	CLY	QTZ	FD	JASP	Clay, weathered granite with Feldspar, Jaspilite
SHR007	16	18	2	GRT	CLY	QTZ	FD	CLY	Clay and pink granite
SHR007	18	20	2	CLY		CLY	FD	QTZ	Brown clay with weathered granite
SHR007	20	22	2	CLY		CLY	FD	QTZ	Brown clay with weathered granite
SHR007	22	24	2	CLY		CLY	FD	QTZ	Brown clay with weathered granite
SHR007	24	26	2	CLY	GRT	CLY	JASP	QTZ	Brown clay with weathered granite
SHR007	26	28	2	CLY	GRT	CLY	JASP	QTZ	Jasp and trace magnetic iron oxide and magnetite
SHR007	28	30	2	GRT		QTZ	JASP	MT	Red granite with Jaspilite and magnetite
SHR007	30	32	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and magnetite and trace epidote
SHR007	32	34	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and magnetite and trace epidote
SHR007	34	36	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and magnetite and trace epidote
SHR007	36	38	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and magnetite and trace

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									epidote
SHR007	38	40	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and magnetite and trace epidote
SHR007	40	42	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and magnetite and trace epidote
SHR007	42	44	2	CLY		CLY			Greenish grey clay
SHR007	44	46	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and amphibole
SHR007	46	48	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and amphibole
SHR007	48	50	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and amphibole
SHR007	50	52	2	GRT		QTZ	FD	JASP	Pink granite with trace jaspilite and amphibole
SHR007	52	54	2	GRT	CLY	QTZ	FD	JASP	Pink granite with trace jaspilite and amphibole, clay as accessory mineral
SHR007	54	56	2	JASP		JASP	QTZ	MT	Hutchison Group Jaspilite with minor magnetite
SHR007	56	58	2	JASP	CLY	JASP	QTZ	MT	Hutchison Group Grey clay with jaspilite and minor magnetite
SHR007	58	60	2	JASP	CLY	JASP	QTZ	MT	Hutchison Group Grey clay with jaspilite and minor magnetite
SHR007	60	62	2	JASP	MT	JASP	MT	QTZ	Hutchison Group Jaspilite and magnetite, trace dolomite
SHR007	62	64	2	JASP		JASP	MT	AMPH	Hutchison Group Jaspilite and magnetite with trace amphibole and epidote, dolomite
SHR007	64	66	2	JASP		JASP	MT	EP	Hutchison Group Jaspilite and magnetite with green mineral epidote and dolomite
SHR007	66	68	2	GRT		QTZ	AMPH	MT	Hutchison Group Grey granite with minor amphibole, dolomite and magnetite
SHR007	68	70	2	GRT		QTZ	AMPH	MT	Hutchison Group Grey granite with minor amphibole,

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										dolomite and magnetite
SHR007	70	72	2	GRT		QTZ	AMPH	MT	Hutchison Group	Grey granite with minor amphibole, dolomite and magnetite
SHR007	72	74	2	GRT	AMPH	QTZ	AMPH	FD	Hutchison Group	Pink granite and amphibole with trace magnetite
SHR007	74	76	2	AMPH		AMPH	MT		Hutchison Group	Amphibolite with minor magnetite and quartz
SHR007	76	78	2	GRT	AMPH	QTZ	FD	AMPH	Hutchison Group	Pink granite and amphibolite with trace magnetite and jaspilite
SHR007	78	80	2	GRT	JASP	QTZ	JASP	AMPH	Hutchison Group	Pink granite with minor jaspilite and amphibolite
SHR007	80	82	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite with trace magnetite, calcite and epidote
SHR007	82	84	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite with trace magnetite, calcite and epidote
SHR007	84	86	2	JASP	AMPH	JASP	AMPH	EP	Hutchison Group	Jaspilite and amphibolite with minor epidote and trace magnetite
SHR007	86	88	2	GRT	AMPH	QTZ	FD	AMPH	Hutchison Group	Pink granite and amphibolite with trace magnetite
SHR007	88	90	2	GRT	AMPH	QTZ	FD	AMPH	Hutchison Group	Pink granite and amphibolite with trace magnetite
SHR007	90	92	2	GRT		QTZ	FD	EP	Hutchison Group	Pink granite with vein quartz and minor epidote, trace magnetite
SHR007	92	94	2	JASP		JASP	QTZ	FD	Hutchison Group	Jaspilite with minor epidote and trace magnetite, amphibolite
SHR007	94	96	2	GRT	AMPH	QTZ	FD	AMPH		Pink granite and amphibolite, trace magnetite
SHR007	96	98	2	AMPH		AMPH	FD	EP		Amphibolite with minor epidote and trace magnetite
SHR007	98	100	2	AMPH		AMPH	EP			Amphibolite with trace epidote, quartz and

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									magnetite
SHR007	100	102	2	AMPH		AMPH	EP		Amphibolite with trace epidote, quartz and magnetite
SHR008	0	2	2	CLY	SND	CCR	CLY	SND	Brown clay with calcrete
SHR008	2	4	2	CLY	SND	CLY	SND		Red clay and sand
SHR008	4	6	2	CLY	SND	CLY	SND		Red - brown clay and sand
SHR008	6	8	2	CLY		CLY			Clay and trace iron oxide
SHR008	8	10	2	GRT	BIFOX	QTZ	FD		Weathered granite with magnetic iron oxide
SHR008	10	12	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	12	14	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	14	16	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	16	18	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	18	20	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	20	22	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	22	24	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	24	26	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	26	28	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	28	30	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	30	32	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	32	34	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	34	36	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	36	38	2	CLY	SND	CLY	SND		Brown clay and sand
SHR008	38	40	2	CLY	JASP	CLY	JASP	QTZ	Brown clay with minor jaspilite
SHR008	40	42	2	CLY	JASP	CLY	JASP	QTZ	Brown clay with minor jaspilite
SHR008	42	44	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite
SHR008	44	46	2	CLY	GRT	CLY	FD	CHL	Brown clay, weathered granite with minor chlorite
SHR008	46	48	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite
SHR008	48	50	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite
SHR008	50	52	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite
SHR008	52	54	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite
SHR008	54	56	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite with

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									trace chlorite
SHR008	56	58	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite with trace chlorite
SHR008	58	60	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite with trace chlorite
SHR008	60	62	2	CLY	GRT	CLY	FD	QTZ	Brown clay and weathered granite with trace chlorite
SHR008	62	64	2	JASP		JASP	QTZ		Hutchison Group Jaspilite with vein quartz
SHR008	64	66	2	JASP		JASP	QTZ		Hutchison Group Jaspilite
SHR008	66	68	2	JASP	LBIF	JASP	Hem?	QTZ	Hutchison Group Jaspilite and magnetic iron oxide (Hematite?)
SHR008	68	70	2	JASP	LBIF	JASP	QTZ	AMPH	Hutchison Group Jaspilite with minor amphibolite and magnetic iron oxide, trace epidote
SHR008	70	72	2	JASP	LBIF	JASP	QTZ	AMPH	Hutchison Group Jaspilite with minor amphibolite, trace magnetic iron oxide and epidote
SHR008	72	74	2	JASP		JASP	QTZ	MT	Hutchison Group Jaspilite with trace amphibolite and magnetite
SHR008	74	76	2	GRT		QTZ	FD	MT	Grey granite with trace magnetite
SHR008	76	78	2	GRT		QTZ	AMPH	MT	Grey granite with minor magnetite
SHR008	78	80	2	GRT		QTZ	FD	MT	Grey granite with trace magnetite
SHR008	80	82	2	GRT		QTZ	FD	MT	Grey granite with trace magnetite
SHR008	82	84	2	GRT		QTZ	FD	MT	Grey granite with trace magnetite
SHR008	84	86	2	GRT		QTZ	FD	AMPH	Granite with amphibolite and trace magnetite
SHR008	86	88	2	GRT		QTZ	FD	AMPH	Granite with amphibolite and trace magnetite
SHR008	88	90	2	GRT		QTZ	FD	MT	Pink granite with trace magnetite and chlorite
SHR008	90	92	2	GRT	JASP	QTZ	FD	JASP	Pink granite and jaspilite with trace magnetite

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SHR008	92	94	2	GRT	JASP	QTZ	FD	JASP		Pink granite and jaspilite with trace magnetite
SHR008	94	96	2	GRT	JASP	QTZ	FD	JASP		Pink granite and jaspilite with trace magnetite
SHR008	96	98	2	GRT		QTZ	FD	AMPH		Grey granite with trace magnetite
SHR008	98	100	2	GRT		QTZ	FD	AMPH		Grey granite with trace magnetite
SHR008	100	102	2	GRT		QTZ	FD	AMPH		Grey granite with trace magnetite and chlorite
SHR009	0	2	2	CLY	CCR	CLY	CCR	SND		Brown clay with calcrete and sand
SHR009	2	4	2	CLY	SND	CLY	SND			Red clay with sand
SHR009	4	6	2	CLY	GRT	CLY	QTZ	HEM		Red clay with minor hematite and weathered granite
SHR009	6	8	2	CLY	GRT	CLY	QTZ	HEM		Red clay and weathered granite with trace hematite
SHR009	8	10	2	CLY	GRT	CLY	QTZ	HEM		Red clay and weathered granite with minor hematite
SHR009	10	12	2	CLY	GRT	CLY	QTZ	HEM		Brown clay and weathered granite with trace hematite
SHR009	12	14	2	CLY		CLY				Red-brown clay
SHR009	14	16	2	CLY		CLY				Red-brown clay
SHR009	16	18	2	CLY		CLY				Brown clay
SHR009	18	20	2	CLY		CLY				Brown clay
SHR009	20	22	2	CLY	JASP	CLY	JASP			Brown clay and minor weathered jaspilite
SHR009	22	24	2	CLY	JASP	CLY	JASP			Brown clay and jaspilite
SHR009	24	26	2	CLY	JASP	CLY	JASP			Brown clay and jaspilite
SHR009	26	28	2	JASP		JASP	AMPH			Jaspilite with trace amphibole
SHR009	28	30	2	CLY	JASP	CLY	JASP			Brown clay and jaspilite
SHR009	30	32	2	JASP		JASP	QTZ			Jaspilite with quartz
SHR009	32	34	2	JASP		JASP	QTZ		Hutchison Group	Jaspilite with quartz
SHR009	34	36	2	JASP		JASP	QTZ		Hutchison Group	Jaspilite with quartz

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SHR009	36	38	2	JASP		JASP	QTZ	CHL	Hutchison Group	Jaspilite with trace chlorite
SHR009	38	40	2	JASP		JASP	QTZ	CHL	Hutchison Group	Jaspilite with trace chlorite
SHR009	40	42	2	JASP		JASP	QTZ		Hutchison Group	Jaspilite and quartz
SHR009	42	44	2	JASP		JASP	QTZ	CHL	Hutchison Group	Jaspilite with trace chlorite
SHR009	44	46	2	JASP		JASP	QTZ	CHL	Hutchison Group	Jaspilite with minor chlorite
SHR009	46	48	2	JASP		JASP	QTZ	CHL	Hutchison Group	Jaspilite with minor chlorite
SHR009	48	50	2	JASP		JASP	EP	QTZ	Hutchison Group	Jaspilite and epidote with vein quartz
SHR009	50	52	2	JASP		JASP	QTZ	EP	Hutchison Group	Jaspilite with minor epidote
SHR009	52	54	2	JASP		JASP	EP	QTZ	Hutchison Group	Jaspilite and epidote alteration
SHR009	54	56	2	JASP		JASP	EP	QTZ	Hutchison Group	Jaspilite and epidote alteration
SHR009	56	58	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite with trace epidote and magnetite
SHR009	58	60	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and minor amphibole, epidote with trace magnetite
SHR009	60	62	2	AMPH	GRT	AMPH	GRT	MT		Amphibolite and granite with trace magnetite
SHR009	62	64	2	AMPH	JASP	AMPH	JASP	Chert		Amphibolite and jaspilite with minor chert and magnetite
SHR009	64	66	2	GRT		QTZ	JASP	MT		Granite with minor jaspilite and trace magnetite
SHR009	66	68	2	GRT		QTZ	FD	MT		Pink granite with minor magnetite, amphibole and jaspilite
SHR009	68	70	2	GRT		QTZ	FD	MT		Pink granite with minor magnetite, amphibole and jaspilite
SHR009	70	72	2	JASP		JASP	QTZ	MT		Jaspilite with minor magnetite
SHR009	72	74	2	GRT		QTZ	FD	MT		Pink granite with magnetite and trace epidote

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SHR009	74	76	2	GRT		QTZ	FD	MT		Pink granite with magnetite and trace epidote
SHR009	76	78	2	JASP		JASP	QTZ	MT	Hutchison Group	Jaspilite with minor magnetite and trace epidote
SHR009	78	80	2	JASP		JASP	QTZ	MT	Hutchison Group	Jaspilite with minor magnetite and trace epidote
SHR009	80	82	2	GRT	BIF	QTZ	MT	FD	Hutchison Group	Granite and magnetite silica
SHR009	82	84	2	GRT	BIF	QTZ	MT	FD	Hutchison Group	Granite and magnetite silica
SHR009	84	86	2	GRT	BIF	QTZ	MT	FD	Hutchison Group	Granite and magnetite silica
SHR009	86	88	2	GRT	BIF	QTZ	MT	FD	Hutchison Group	Pink granite with minor magnetite silica
SHR009	88	90	2	GRT	BIF	QTZ	MT	FD	Hutchison Group	Pink granite with magnetite silica
SHR009	90	92	2	JASP		JASP	AMPH	MT	Hutchison Group	Jaspilite and amphibolite with minor magnetite
SHR009	92	94	2	JASP		JASP	MT	AMPH	Hutchison Group	Jaspilite with minor magnetite and amphibolite
SHR009	94	96	2	JASP		JASP	MT	AMPH	Hutchison Group	Jaspilite with minor magnetite and amphibolite
SHR010	0	2	2	CLY	SND	CCR				red-brown clay & sand with nodular calcrete
SHR010	2	4	2	CLY/SND						red clay/sand
SHR010	4	6	2	SND	CLY					red sand & clay
SHR010	6	8	2	SND	CLY					red sand & clay
SHR010	8	10	2	SND	CLY					white sand + minor brown clay/sand
SHR010	10	12	2	CLY	SND					white sand + brown clay/sand
SHR010	12	14	2	CLY	SND					brown-yellow clay & sand
SHR010	14	16	2	CLY		silica				brown-yellow clay + nodular silica
SHR010	16	18	2	CLY		silica				brown-yellow clay + nodular silica + minor white clay/sand
SHR010	18	20	2	CLY	SND					brown-yellow clay & sand + minor red sand
SHR010	20	22	2	CLY	SND					brown-yellow clay &

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									sand + minor red sand
SHR010	22	24	2	CLY	SND	silica			brown-yellow clay & sand + minor red sand & silica
SHR010	24	26	2	GRN	CLY				weathered pink(?) granite + brown-yellow clay & sand + minor silica
SHR010	26	28	2	GRN	JASP	?EP			pink granite + minor ?epidote & jaspilite
SHR010	28	30	2	GRN	JASP				pink granite + jaspilite + minor white ?granite or ?calcsilicate
SHR010	30	32	2	JASP				Hutchison Group	jaspilite
SHR010	32	34	2	JASP				Hutchison Group	jaspilite
SHR010	34	36	2	JASP	?CHRT			Hutchison Group	jaspilite + minor ?chert
SHR010	36	38	2	JASP				Hutchison Group	jaspilite
SHR010	38	40	2	JASP		?EP		Hutchison Group	jaspilite + minor ?epidote
SHR010	40	42	2	JASP		?EP		Hutchison Group	jaspilite + minor ?epidote
SHR010	42	44	2	JASP	?CHRT			Hutchison Group	jaspilite + minor ?chert
SHR010	44	46	2	JASP	CHRT			Hutchison Group	jaspilite + chert
SHR010	46	48	2	JASP	CHRT	MT/HEM		Hutchison Group	jaspilite + chert + minor magnetite/hematite
SHR010	48	50	2	JASP	CHRT	MT		Hutchison Group	jaspilite + chert + trace magnetite
SHR010	50	52	2	JASP	CHRT/QZT	?EP		Hutchison Group	jaspilite + chert/quartzite + trace ?epidote
SHR010	52	54	2	JASP	AMPH/CHRT/QZT			Hutchison Group	jaspilite + amphibolite + chert/quartzite
SHR010	54	56	2	JASP	AMPH			Hutchison Group	jaspilite + amphibolite. Trace magnetite
SHR010	56	58	2	AMPH	JASP/CHRT			Hutchison Group	amphibolite + jaspilite/chert. Trace magnetite & BIF
SHR010	58	59	1	JASP	AMPH	MT		Hutchison Group	jaspilite + amphibolite. Trace magnetite BIF end of hole 59m

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SHR011	0	2	2	CLY	SND	CCR				red & brown clay & sand with nodular/massive calcrete
SHR011	2	4	2	CLY	SND	CCR				red clay & sand with nodular calcrete
SHR011	4	6	2	CLY/SND						red & pink clay/sands + white sand
SHR011	6	8	2	SND	CLY					white & orange sands + red sand/clay
SHR011	8	10	2	SND	CLY					white, yellow & orange sands & yellow clay
SHR011	10	12	2	SND	CLY					white & yellow sands & clay
SHR011	12	14	2	CLY	SND					yellow & brown clay & sand
SHR011	14	16	2	CLY	SND					brown clay & sand
SHR011	16	18	2	CLY	SND	silica				brown clay & sand + silica
SHR011	18	20	2	CLY	JASP/silica					brown clay + jaspilite & silica
SHR011	20	22	2	JASP	silica				Hutchison Group	jaspilite + silica
SHR011	22	24	2	JASP	?CHRT				Hutchison Group	jaspilite + ?chert
SHR011	24	26	2	JASP	?CHBIF	MT			Hutchison Group	jaspilite + ?chert/BIF + minor magnetite
SHR011	26	28	2	JASP	?CHBIF/AMPH	MT			Hutchison Group	jaspilite + ?chert/BIF + amphibolite + trace magnetite
SHR011	28	30	2	CHRT	JASP/AMPH				Hutchison Group	chert + jaspilite + minor amphibolite
SHR011	30	32	2	CHRT		MT			Hutchison Group	chert + trace magnetite & amphibolite
SHR011	32	34	2	AMPH		?EP/CHL			Hutchison Group	amphibolite with minor ?epidote/chlorite alteration
SHR011	34	36	2	QZT/CHRT		DOL			Hutchison Group	quartzite/chert + trace dolomite & amphibolite
SHR011	36	38	2	?AMPH		DOL	?EP		Hutchison Group	?amphibolite with dolomite/?epidote alteration/veins
SHR011	38	40	2	JASP	?AMPH	MT	DOL		Hutchison Group	jaspilite with minor magnetite & dolomite. Trace altered

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										?amphibolite
SHR011	40	42	2	JASP	?AMPH	MT	DOL		Hutchison Group	jaspilite with trace magnetite & dolomite & altered ?amphibolite
SHR011	42	44	2	CHRT	BIF	MT	DOL			chert + magnetite BIF + minor dolomite
SHR011	44	46	2	JASP/CHRT		MT	DOL		Hutchison Group	jaspilite/chert + magnetite + minor dolomite
SHR011	46	48	2	JASP		MT	DOL		Hutchison Group	jaspilite + magnetite + minor dolomite
SHR011	48	50	2	JASP		MT	DOL		Hutchison Group	jaspilite + magnetite + minor dolomite
SHR011	50	52	2	JASP		MT	DOL		Hutchison Group	jaspilite + magnetite + minor dolomite
SHR011	52	54	2	JASP	?MAF	MT	DOL		Hutchison Group	jaspilite + magnetite + minor dolomite & mafic rock (?amphibolite)
SHR011	54	56	2	JASP		MT	DOL	?EP	Hutchison Group	jaspilite + magnetite + minor dolomite & ?epidote
SHR011	56	58	2	JASP	MTS	MT	?EP	biotite	Hutchison Group	jaspilite + magnetite-quartz rock + minor ?epidote & biotite
SHR011	58	60	2	JASP	MTS	MT	DOL		Hutchison Group	jaspilite + magnetite-quartz rock + magnetite (?BIF) & dolomite
SHR011	60	62	2	JASP	MTS/MTO	MT	DOL		Hutchison Group	jaspilite + magnetite-quartz rock + magnetite & dolomite
SHR011	62	64	2	JASP	MTS/MTO	MT	DOL		Hutchison Group	jaspilite + magnetite-quartz rock + magnetite & dolomite
SHR011	64	66	2	JASP	MTS	MT	DOL		Hutchison Group	jaspilite + magnetite-quartz rock + dolomite
SHR011	66	68	2	JASP	MTO	MT			Hutchison Group	jaspilite + magnetite
SHR011	68	70	2	JASP	MTS	MT	?EP		Hutchison Group	jaspilite + magnetite-quartz rock + minor ?epidote
SHR011	70	72	2	MTS	JASP	MT			Hutchison Group	magnetite-silica rock + jaspilite
SHR011	72	74	2	MTS	JASP	MT	DOL		Hutchison Group	magnetite-silica rock + jaspilite + trace dolomite
SHR011	74	76	2	CHRT	MTS/JASP	MT	DOL		Hutchison	chert + magnetite-

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									Group	silica rock & jaspilite + trace dolomite
SHR011	76	78	2	JASP		MT	DOL		Hutchison Group	jaspilite + minor magnetite + trace dolomite
SHR011	78	80	2	CHRT	JASP				Hutchison Group	chert + jaspilite
SHR011	80	82	2	JASP	MTS	MT	DOL		Hutchison Group	jaspilite + magnetite-silica rock + minor magnetite & dolomite
SHR011	82	84	2	MTS	JASP	MT	DOL		Hutchison Group	magnetite-silica rock + jaspilite + minor magnetite & dolomite
SHR011	84	86	2	CHRT/MTS	JASP	MT			Hutchison Group	chert/magnetite-silica rock + magnetite + jaspilite
SHR011	86	88	2	MTO	CHRT	MT	DOL		Hutchison Group	magnetite ore + chert + minor dolomite
SHR011	88	90	2	MTO	CHRT	MT			Hutchison Group	magnetite ore + chert
SHR011	90	92	2	MTO	CHRT	MT			Hutchison Group	magnetite ore + chert
SHR011	92	94	2	MTO	CHRT	MT			Hutchison Group	magnetite ore + minor chert
SHR011	94	96	2	MTO		MT			Hutchison Group	magnetite ore (?BIF)
SHR011	96	98	2	MTO		MT			Hutchison Group	magnetite ore
SHR011	98	100	2	MTO	CHRT	MT	pyrite		Hutchison Group	magnetite ore + minor chert + trace pyrite
SHR011	100	102	2	MTO	CHRT	MT	pyrite		Hutchison Group	magnetite ore + chert + trace pyrite
SHR011	102	104	2	MTO/MTS	GRN	MT	pyrite		Hutchison Group	magnetite ore / magnetite-quartz rock + minor granite + trace pyrite
SHR011	104	106	2	MTS		MT	pyrite		Hutchison Group	magnetite-quartz rock + magnetite granite + minor pyrite
SHR011	106	108	2	MTS		MT	pyrite		Hutchison Group	magnetite-quartz rock + magnetite granite + minor pyrite
SHR011	108	110	2	MTS		MT	pyrite		Hutchison Group	magnetite-quartz rock + trace pyrite
SHR011	110	112	2	MTS	CHRT	MT	pyrite		Hutchison Group	magnetite-quartz rock + minor chert + trace pyrite

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SHR011	112	114	2	MTS		MT	pyrite		Hutchison Group	magnetite granite + trace pyrite
SHR011	114	116	2	MTS	MTO	MT	pyrite		Hutchison Group	magnetite granite + magnetite + trace pyrite
SHR011	116	118	2	MTS	MTO	MT	pyrite		Hutchison Group	magnetite granite + magnetite + trace pyrite
SHR011	118	120	2	MTO	CHRT/GRN	MT	pyrite		Hutchison Group	magnetite ore + chert + minor pyrite & granite
SHR011	120	122	2	MTS	GRN/AMPH	MT	pyrite		Hutchison Group	magnetite-silica rock + granite + minor amphibole & pyrite
SHR011	122	124	2	MTS		MT	pyrite		Hutchison Group	magnetite granite + trace pyrite
SHR011	124	126	2	MTS		MT			Hutchison Group	magnetite granite + magnetite-silica rock
SHR011	126	128	2	MTS	MTO/CHRT/JASP	MT	pyrite		Hutchison Group	magnetite granite + magnetite-silica rock + minor chert & jaspilite + trace pyrite
SHR011	128	130	2	MTO	MTS	MT	pyrite		Hutchison Group	magnetite + magnetite granite + trace pyrite
SHR011	130	132	2	MTO	MTS	MT			Hutchison Group	magnetite (?BIF) + minor magnetite-silica rock
SHR011	132	134	2	MTS	MTO	MT			Hutchison Group	magnetite-quartz rock + magnetite
SHR011	134	136	2	MTS/MTO		MT	pyrite		Hutchison Group	magnetite-quartz rock / magnetite + trace pyrite
SHR011	136	138	2	MTO	MTS	MT	pyrite		Hutchison Group	magnetite + magnetite-quartz rock + trace pyrite
SHR011	138	140	2	MTO	CHRT	MT	pyrite		Hutchison Group	magnetite + chert + trace pyrite
SHR011	140	142	2	MTS	CHRT	MT			Hutchison Group	magnetite-quartz rock + chert
SHR011	142	144	2	MTS	CHRT/AMPH	MT	pyrite		Hutchison Group	magnetite-quartz rock + chert + amphibolite + trace pyrite
SHR011	144	146	2	MTS		MT			Hutchison Group	magnetite-quartz rock
SHR011	146	148	2	MTS		MT	pyrite		Hutchison Group	magnetite granite + trace pyrite
SHR011	148	150	2	MTO	MTS	MT	pyrite		Hutchison Group	magnetite + magnetite granite + trace pyrite

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SHR011	150	152	2	MTS		MT	pyrite		Hutchison Group	magnetite granite + trace pyrite
SHR011	152	154	2	MTO/MTS		MT	pyrite		Hutchison Group	magnetite ore / magnetite granite + trace pyrite
SHR011	154	156	2	MTO		MT	pyrite		Hutchison Group	magnetite ore + trace pyrite
SHR011	156	158	2	MTS		MT			Hutchison Group	magnetite granite + magnetite-silica rock
SHR011	158	160	2	MTS		MT			Hutchison Group	magnetite granite + magnetite-silica rock
SHR011	160	162	2	MTS/GRN/JASP		MT	?EP		Hutchison Group	magnetite granite + magnetite-silica rock + ?epidote-altered granite & jaspilite
SHR011	162	164	2	MTS/JASP/GRN		MT	?EP		Hutchison Group	magnetite-quartz rock + ?epidote-altered granite & jaspilite
SHR011	164	166	2	JASP/MTS		MT	?EP		Hutchison Group	jaspilite + magnetite-quartz rock + ?epidote-altered granite & jaspilite
SHR011	166	168	2	JASP/MTS		MT	?EP		Hutchison Group	jaspilite + magnetite-quartz rock + ?epidote-altered granite & jaspilite END OF HOLE 168 METRES
SHR012	0	2	2	CLY	SND	CCR				brown & red clay & sand + nodular calcrete
SHR012	2	4	2	CLY	SND	CCR				red & white sand & clay + nodular calcrete
SHR012	4	6	2	SND	CLY	silica				red, white & pink sands and clay + silica grit/nodules
SHR012	6	8	2	SND	CLY	silica				red, white & pink sands and clay + silica grit/nodules
SHR012	8	10	2	SND	CLY	silica				red & white sands and clay + silica grit/nodules
SHR012	10	12	2	SND	CLY	silica				yellow-brown & red sands and clays + silica grit/nodules
SHR012	12	14	2	SND	CLY					yellow-brown & red sands and clays
SHR012	14	16	2	SND	CLY					yellow-brown & red

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									sands and clays
SHR012	16	18	2	SND	CLY				yellow-brown & red sands and minor clay
SHR012	18	20	2	SND	CLY				yellow-brown & red sands and minor clay
SHR012	20	22	2	SND	CLY	QTZ			yellow-brown & red sands and minor clay + trace quartz
SHR012	22	24	2	SND	CLY	QTZ	HEM		brown-olive sand & minor clay + quartz. Trace hematite coating the quartz
SHR012	24	26	2	SND/CLY	CHRT		HEM		olive-brown sand/clay + minor chert/quartz. Trace hematite
SHR012	26	28	2	CLY/SND	CHRT		HEM		olive-brown clay/sand + minor chert/quartz. Trace hematite
SHR012	28	30	2	CLY	CHRT		HEM		olive-brown clay + minor chert/quartz. Trace hematite
SHR012	30	32	2	CLY	CHRT		HEM		olive-brown clay + minor chert/quartz. Trace hematite
SHR012	32	34	2	CLY	CHRT	QTZ			olive-brown clay + chert + minor quartz
SHR012	34	36	2	CLY	CHRT				olive-brown clay + chert
SHR012	36	38	2	CLY	CHRT				olive-brown clay + chert
SHR012	38	40	2	CLY	CHRT				olive-brown clay + chert
SHR012	40	42	2	CLY	CHRT				olive-brown clay + chert + minor quartz HOLE ABANDONED ON 14 APRIL AT 42 METRES
SHR013	0	2	2	CLY	SND	CCR			brown & red clay & sand + calcrete
SHR013	2	4	2	CLY	SND	CCR			red clays and sands + calcrete nodules
SHR013	4	6	2	CLY	SND				red/pink clays and sands
SHR013	6	8	2	CLY	SND	silica			red white & pink clays & sands + silica grit
SHR013	8	10	2	CLY	SND	silica			red white orange & yellow clays and sands + silica grit

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SHR013	10	12	2	CLY	SND	silica				dark brown/purple & pale brown clays & sands + silica grit. Pale brown clay feels slippery when damp (?kaolin)
SHR013	12	14	2	CLY	SND	silica				pale brown/yellow clay & minor sand + silica grit
SHR013	14	16	2	CLY	SND	silica				pale brown/yellow clay & minor sand + silica grit
SHR013	16	18	2	CLY	SND	silica				pale brown/yellow clay & minor sand + silica grit
SHR013	18	20	2	CLY	CHRT/QZT	HEM				pale brown clay + chert/quartzite + trace hematite
SHR013	20	22	2	CLY	CHRT/QZT	HEM				brown clay + chert/quartzite + trace hematite
SHR013	22	24	2	CLY	CHRT/QZT/JASP	HEM				brown-olive clay + chert/quartzite + minor jaspilite + trace hematite
SHR013	24	26	2	CLY	CHRT/QZT/JASP	HEM				brown-olive clay + chert/quartzite + minor jaspilite + trace hematite
SHR013	26	28	2	CHRT/QZT	CLY/JASP	HEM			Hutchison Group	chert/quartzite + brown-olive clay + minor jaspilite + trace hematite
SHR013	28	30	2	CHRT	JASP	HEM			Hutchison Group	chert + jaspilite + trace hematite
SHR013	30	32	2	CHRT	JASP	?EP			Hutchison Group	chert + jaspilite + minor ?epidote
SHR013	32	34	2	CHRT	JASP	?EP			Hutchison Group	chert + jaspilite + minor ?epidote
SHR013	34	36	2	JASP	CHRT	?EP			Hutchison Group	jaspilite + chert + minor ?epidote
SHR013	36	38	2	JASP	CHRT	?EP			Hutchison Group	jaspilite + chert + minor ?epidote
SHR013	38	40	2	CHRT	JASP	?EP	MT		Hutchison Group	chert + jaspilite + minor ?epidote + trace magnetite
SHR013	40	42	2	CHRT	JASP	?EP	MT		Hutchison Group	chert + jaspilite + minor ?epidote &

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										magnetite
SHR013	42	44	2	JASP	CHRT	?EP	MT		Hutchison Group	jaspilite + chert + minor ?epidote & magnetite
SHR013	44	46	2	JASP	MTO	MT	?EP		Hutchison Group	jaspilite + magnetite + minor ?epidote
SHR013	46	48	2	JASP	MTO	MT	?EP	QTZ	Hutchison Group	jaspilite + magnetite + minor ?epidote & quartz
SHR013	48	50	2	MTO	JASP/AMPH	MT			Hutchison Group	magnetite + jaspilite + amphibolite + minor quartz
SHR013	50	52	2	JASP	MTO	MT	DOL		Hutchison Group	jaspilite + magnetite + minor dolomite
SHR013	52	54	2	JASP	MTS	MT	DOL	?EP	Hutchison Group	jaspilite + magnetite-silica rock + minor dolomite & ?epidote
SHR013	54	56	2	JASP/MTO	MTO	MT	?EP		Hutchison Group	jaspilite/magnetite + minor ?epidote
SHR013	56	58	2	JASP	MTO/AMPH	MT	?EP		Hutchison Group	jaspilite + magnetite + minor amphibolite & ?epidote
SHR013	58	60	2	JASP	MTS	MT	?EP		Hutchison Group	jaspilite + magnetite-silica rock + minor ?epidote
SHR013	60	62	2	JASP	MTS/MTO	MT			Hutchison Group	jaspilite + magnetite-silica rock + minor magnetite ore
SHR013	62	64	2	JASP	MTO	MT			Hutchison Group	jaspilite + magnetite
SHR013	64	66	2	JASP	MTO	MT			Hutchison Group	jaspilite + magnetite
SHR013	66	68	2	JASP	MTO	MT			Hutchison Group	jaspilite + minor magnetite
SHR013	68	70	2	JASP	MTO	MT			Hutchison Group	jaspilite + magnetite ore (?BIF)
SHR013	70	72	2	JASP	MTO	MT	DOL		Hutchison Group	jaspilite + magnetite ore + trace dolomite
SHR013	72	74	2	JASP	MTO	MT	DOL		Hutchison Group	jaspilite + magnetite ore + minor dolomite
SHR013	74	76	2	JASP	DOL/MTO	MT	DOL		Hutchison Group	jaspilite + pink dolomite + magnetite
SHR013	76	78	2	CHRT/DOL	JASP	MT	DOL		Hutchison Group	chert + pink dolomite + jaspilite
SHR013	78	80	2	JASP	MTO/AMPH	MT	DOL		Hutchison Group	jaspilite + magnetite + minor amphibolite & pink dolomite

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SHR013	80	82	2	JASP	MTO/AMPH	MT			Hutchison Group	jaspilite + magnetite + amphibolite
SHR013	82	84	2	JASP/MTO	AMPH	MT	DOL		Hutchison Group	jaspilite + magnetite + minor amphibolite & dolomite
SHR013	84	86	2	JASP	MTS/AMP	MT	DOL		Hutchison Group	jaspilite + magnetite-silica rock + minor amphibolite & dolomite
SHR013	86	88	2	JASP	MTS/AMPH	MT	DOL		Hutchison Group	jaspilite + magnetite-silica rock + minor amphibolite & dolomite
SHR013	88	90	2	JASP	MTS	MT	DOL		Hutchison Group	jaspilite + magnetite-silica rock + minor dolomite
SHR013	90	92	2	JASP	MTS/DOL	MT	DOL		Hutchison Group	jaspilite + minor magnetite-silica rock + dolomite
SHR013	92	94	2	JASP			DOL		Hutchison Group	jaspilite + minor dolomite
SHR013	94	96	2	JASP	QZT		DOL		Hutchison Group	jaspilite + quartzite + minor dolomite
SHR013	96	98	2	MTS	JASP	MT			Hutchison Group	magnetite-silica rock + jaspilite + minor magnetite
SHR013	98	100	2	JASP	MTS	MT			Hutchison Group	jaspilite + magnetite-silica rock (?BIF)
SHR013	100	102	2	JASP	CHRT/MTS/AMPH				Hutchison Group	jaspilite + chert/magnetite-silica rock + minor amphibolite
SHR013	102	104	2	CHRT/MTS		MT			Hutchison Group	chert/magnetite-silica rock (?BIF)
SHR013	104	106	2	CHRT		MT			Hutchison Group	chert + minor magnetite
SHR013	106	108	2	AMPH	CHRT	MT			Hutchison Group	amphibolite + chert + minor magnetite
SHR013	108	110	2	CHRT		MT			Hutchison Group	chert + minor magnetite
SHR013	110	112	2	CHRT/MTS		MT			Hutchison Group	chert + minor magnetite-silica rock
SHR013	112	114	2	CHRT/MTS	AMPH/JASP				Hutchison Group	chert + magnetite-silica rock + amphibolite + jaspilite END OF HOLE 114m
SHR014	0	2	2	CLY	CCR	CLY	CCR			brown clay with calcrete

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SHR014	2	4	2	CLY	SND				brown clay with sand
SHR014	4	6	2	CLY		CLY			white clay
SHR014	6	8	2	CLY	SND	CLY	SLC		red brown clay and sand
SHR014	8	10	2	CLY	SND	CLY	SLC		purple clay and sand
SHR014	10	12	2	CLY	SND	CLY	SLC		grey brown clay and sand
SHR014	12	14	2	CLY	SND	CLY	SLC		grey brown clay and sand
SHR014	14	16	2	CLY	SLST	CLY	SLC		grey green clay and siltstone
SHR014	16	18	2	CLY	SLST	CLY	SLC		grey green clay and siltstone
SHR014	18	20	2	CLY	SLST	CLY	SLC		grey green clay and siltstone
SHR014	20	22	2	CLY	SLST	CLY	SLC		grey green clay and siltstone
SHR014	22	24	2	CLY	SLST	CLY	SLC		grey green clay and siltstone
SHR014	24	26	2	CLY	SLST	CLY	SLC		grey green clay and siltstone
SHR014	26	28	2	CLY	SLST	CLY	SLC		grey green clay and siltstone
SHR014	28	30	2	CLY		CLY			yellow brown clay
SHR014	30	32	2	CHRT		CHRT			Hutchison Group white chert
SHR014	32	34	2	CHRT		CHRT			Hutchison Group white chert
SHR014	34	36	2	CHRT		CHRT			Hutchison Group white chert
SHR014	36	38	2	CHRT		CHRT			Hutchison Group white chert
SHR014	38	40	2	CHBIF		CHRT			Hutchison Group chert with minor pink BIF
SHR014	40	42	2	CHBIF		CHRT			Hutchison Group chert with minor pink BIF
SHR014	42	44	2	CHRT		CHRT			Hutchison Group white chert
SHR014	44	46	2	CHRT		CHRT			Hutchison Group white chert
SHR014	46	48	2	CHRT		CHRT			Hutchison Group white chert
SHR014	48	50	2	CHRT		CHRT			Hutchison Group white chert
SHR014	50	52	2	CHRT		AMPH			Hutchison Group pink chert and minor amphibolite
SHR014	52	54	2	CHRT		AMPH			Hutchison pink chert and minor

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									Group	amphibolite
SHR014	54	56	2	CHRT	JASP	CHRT	JASP		Hutchison Group	chert with traces of jaspilite. Weak water flow at 55m
SHR014	56	58	2	CHRT	JASP	CHRT	JASP		Hutchison Group	chert with traces of jaspilite
SHR014	58	60	2	CHRT	JASP	CHRT	JASP		Hutchison Group	chert with traces of jaspilite
SHR014	60	62	2	CHRT	JASP	CHRT	JASP		Hutchison Group	chert with traces of jaspilite
SHR014	62	64	2	JASP	CHRT	JASP	CHRT		Hutchison Group	jaspilite with minor chert
SHR014	64	66	2	JASP	CHRT	JASP	CHRT		Hutchison Group	jaspilite with minor chert
SHR014	66	68	2	JASP	AMPH	JASP	AMPH	MT	Hutchison Group	pink jaspilite with minor amphibolite and trace magnetite
SHR014	68	70	2	AMPH	JASP	AMPH		MT	Hutchison Group	black amphibolite with trace magnetite and jasper
SHR014	70	72	2	AMPH	JASP	AMPH		MT	Hutchison Group	black amphibolite with trace magnetite and jasper
SHR014	72	74	2	AMPH	MT	AMPH	MT		Hutchison Group	black amphibolite with trace magnetite
SHR014	74	76	2	AMPH	MT	AMPH	MT		Hutchison Group	black amphibolite with trace magnetite
SHR014	76	78	2	JASP	AMPH	JASP	AMPH	MT	Hutchison Group	50-50 pink jasper and black amphibolite
SHR014	78	80	2	GRT	JASP	FD	JASP		Hutchison Group	pale pink granite with minor amphibolite
SHR014	80	82	2	GRT	JASP	FD	JASP		Hutchison Group	pink granite with jaspilite
SHR014	82	84	2	JASP	CHRT	JASP	CHRT		Hutchison Group	dark pink jaspilite
SHR014	84	86	2	JASP	CHRT	JASP	CHRT		Hutchison Group	dark pink jaspilite
SHR014	86	88	2	CHBIF	CHRT	JASP	AMPH		Hutchison Group	CHBIF with minor amphibolite
SHR014	88	90	2	CHBIF	CHRT	CHBIF	CHRT		Hutchison Group	CHBIF with jasper and chert
SHR014	90	92	2	CHBIF	QZVN				Hutchison Group	CHBIF with vein quartz
SHR014	92	94	2	CHBIF	JASP	CHBIF	JASP		Hutchison Group	pink CHBIF
SHR014	94	96	2	CHBIF		CHBIF		MT	Hutchison Group	pink to dark CHBIF with trace magnetite

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SHR014	96	98	2	CHBIF	JASP				Hutchison Group	pink CHBIF and jaspillite
SHR014	98	100	2	CHBIF	JASP	CHBIF	JASP		Hutchison Group	darkCHBIF with jaspillite
SHR014	100	102	2	CHBIF	JASP	CHBIF	CHRT	JASP	Hutchison Group	pink jaspillite and chert END of HOLE
SHR015	0	2	2	CLY	CCR	CLY	CCR			Brown clay and calcrete
SHR015	2	4	2	CLY	SND					Brown clay and sand
SHR015	4	6	2	CLY	SND					Red-brown clay and sand
SHR015	6	8	2	CLY	SND					Brwon clay and sand
SHR015	8	10	2	CLY	SND					Brwon clay and sand
SHR015	10	12	2	CLY	SND					Brwon clay and sand
SHR015	12	14	2	CLY	SND					Brwon clay and sand
SHR015	14	16	2	CLY	CHRT	CLY	CHRT			Brown clay and chert
SHR015	16	18	2	CLY	CHRT	CLY	CHRT			Brown clay and chert
SHR015	18	20	2	CLY	CHRT	CLY	CHRT			Brown clay and chert
SHR015	20	22	2	CLY	CHRT	CLY	CHRT			Brown clay and chert
SHR015	22	24	2	CLY	CHRT	CLY	CHRT			Brown clay and chert
SHR015	24	26	2	CLY	HEM					Brown clay and trace altered hematite
SHR015	26	28	2	CLY	SCH?	CLY				Brown clay and schist
SHR015	28	30	2	CLY	CHRT	CHRT				Grey chert and clay
SHR015	30	32	2	CLY	CHRT	CHRT				Pinkish chert and clay
SHR015	32	34	2	CLY	CHRT	CHRT				Grey chert and clay
SHR015	34	36	2	CLY	CHRT	CHRT				Grey chert and clay
SHR015	36	38	2	CLY	CHRT	CHRT				Pinkish chert and clay
SHR015	38	40	2	CLY	CHRT	CHRT				Pinkish chert and clay
SHR015	40	42	2	CHRT	JASP	CHRT	JASP		Hutchison Group	Pinkish, grey chert and jaspillite
SHR015	42	44	2	JASP	MT	JASP	MT		Hutchison Group	Jaspillite with trace magnetite
SHR015	44	46	2	JASP	MT	JASP	MT		Hutchison Group	Jaspillite with trace magnetite
SHR015	46	48	2	JASP	CHRT	JASP	CHRT		Hutchison Group	Jaspillite and grey chert
SHR015	48	50	2	CHRT		CHRT			Hutchison Group	Pink and grey chert
SHR015	50	52	2	CHRT		CHRT			Hutchison Group	Pink and grey chert
SHR015	52	54	2	JASP	AMPH	JASP	AMPH		Hutchison Group	Jaspillite and amphibolite
	54	56	2	AMPH	JASP	AMPH	JASP		Hutchison Group	Amphibolite with trace jaspillite
SHR015	56	58	2	AMPH	JASP	AMPH	JASP		Hutchison Group	Amphibolite with trace jaspillite

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SHR015	58	60	2	AMPH	JASP	AMPH	JASP		Hutchison Group	Amphibolite and jaspillite
SHR015	60	62	2	AMPH	JASP	AMPH	JASP		Hutchison Group	Amphibolite and trace jaspillite
SHR015	62	64	2	AMPH	JASP	AMPH	JASP		Hutchison Group	Amphibolite and trace jaspillite
SHR015	64	66	2	JASP	AMPH	JASP	AMPH	QTZ	Hutchison Group	Jaspillite with trace amphibolite
SHR015	66	68	2	JASP	AMPH	JASP	AMPH		Hutchison Group	Jaspillite and amphibolite
SHR015	68	70	2	AMPH		AMPH			Hutchison Group	Amphibolite
SHR015	70	72	2	AMPH		AMPH			Hutchison Group	Amphibolite
SHR015	72	74	2	AMPH		AMPH			Hutchison Group	Amphibolite
SHR015	74	76	2	AMPH	BIF	AMPH	JASP		Hutchison Group	Amphibolite and BIF
SHR015	76	78	2	AMPH	BIF	AMPH	JASP		Hutchison Group	Amphibolite and BIF
SHR015	78	80	2	JASP	BIF	JASP	MT	QTZ	Hutchison Group	Jaspillite, magenitite silica, magnetite-jaspillite
SHR015	80	82	2	JASP	BIF	JASP	MT	QTZ	Hutchison Group	Jaspillite, magenitite silica, magnetite-jaspillite
SHR015	82	84	2	JASP	BIF	JASP	QTZ	MT	Hutchison Group	Jaspillite with trace magnetite
SHR015	84	86	2	JASP	BIF	JASP	MT		Hutchison Group	Jaspillite and magnetite BIF
SHR015	86	88	2	JASP	BIF	JASP	AMPH	MT	Hutchison Group	Jaspillite and amphibolite with trace magnetite and dolomite
SHR015	88	90	2	JASP	BIF	JASP	AMPH	MT	Hutchison Group	Jaspillite and amphibolite with trace magnetite
SHR015	90	92	2	AMPH	BIF	AMPH	JASP	MT	Hutchison Group	Amphibolite with minor jaspillite and trace MT
	92	94	2	BIF		JASP	MT	AMPH	Hutchison Group	Banded magnetite, jaspillite quartz with trace amphibolite
SHR015	94	96	2	AMPH	BIF	AMPH	JASP	MT	Hutchison Group	Amphibolite with banded jaspillite, magnetite and quartz
SHR015	96	98	2	AMPH		AMPH	MT		Hutchison Group	Amphibolite with minor magnetite
SHR015	98	100	2	BIF	AMPH	AMPH	JASP	MT	Hutchison	Amphibolite with

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									Group	banded jaspillite, magnetite and quartz
SHR015	100	102	2	AMPH	JASP	AMPH	JASP		Hutchison Group	Amphibolite with minor jaspillite
SHR015	102	104	2	AMPH	JASP	AMPH	JASP		Hutchison Group	Amphibolite with minor jaspillite
SHR015	104	106	2	JASP		JASP	AMPH	MT	Hutchison Group	Jaspillite with minor amphibolite and trace magnetite
SHR015	106	108	2	BIF		JASP	MT	QTZ	Hutchison Group	Banded jaspillite, magnetite and quartz, trace dolomite
SHR015	108	110	2	BIF		JASP	MT	QTZ	Hutchison Group	Banded jaspillite, magnetite and quartz, trace dolomite
SHR015	110	112	2	BIF		JASP	MT	QTZ	Hutchison Group	Banded jaspillite, magnetite and quartz, trace dolomite
SHR015	112	114	2	JASP	BIF	JASP	MT	DO	Hutchison Group	Jaspillite and BIF with dolomite
SHR015	114	116	2	BIF		JASP	MT	QTZ	Hutchison Group	BIF with minor dolomite
SHR015	116	118	2	BIF	AMPH	JASP	MT		Hutchison Group	BIF with minor magnetite, dolomite and amphibolite
SHR015	118	120	2	BIF	AMPH	JASP	AMPH	MT	Hutchison Group	Amphibolite and BIF with minor magnetite, dolomite
SHR015	120	122	2	SCH	JASP	JASP	AMPH	BT	Hutchison Group	Schist with jaspillite and minor magnetite and dolomite
SHR015	122	124	2	BIF		MT	JASP		Hutchison Group	High grade magnetite with banded jaspillite, magnetite quartz and dolomite
SHR015	124	126	2	BIF		JASP	MT	QTZ	Hutchison Group	BIF with magnetite and quartz
SHR015	126	128	2	BIF		JASP	MT	QTZ	Hutchison Group	Banded jaspillite, magnetite and quartz
SHR015	128	130	2	BIF		JASP	MT	QTZ	Hutchison Group	Banded jaspillite, magnetite and quartz
SHR015	130	132	2	BIF		MT	QTZ		Hutchison Group	High grade magnetite and banded jaspillite, magnetite and quartz
SHR015	132	134	2	BIF		MT	QTZ		Hutchison Group	High grade magnetite with quartz
SHR015	134	136	2	BIF		JASP	QTZ	MT	Hutchison	BIF with minor

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									Group	magnetite
SHR015	136	138	2	BIF		MT	QTZ	JASP	Hutchison Group	Banded quartz, magnetite and jaspillite
SHR015	138	140	2	BIF	AMPH	JASP	AMPH	QTZ	Hutchison Group	BIF and amphibolite with minor magnetite
SHR015	140	142	2	BIF	GRT	QTZ	MT	FD	Hutchison Group	Granite and banded quartz and magnetite
SHR015	142	144	2	BIF	GRT	QTZ	MT	FD	Hutchison Group	Banded quartz and magnetite with granite
SHR015	144	146	2	GRT	MTS	QTZ	MT	FD		Granite and magnetite silica rock with trace epidote
SHR015	146	148	2	GRT	MTS	QTZ	MT	FD		Granite and magnetite silica rock with trace epidote
SHR015	148	150	2	GRT	MTS	QTZ	MT	FD		Granite and magnetite silica rock
SHR015	150	152	2	GRT	MTS	QTZ	MT	FD		Granite and magnetite silica rock
SHR015	152	154	2	GRT	MTS	QTZ	MT	FD		Granite and magnetite silica rock
SHR015	154	156	2	GRT	MTS	QTZ	MT	FD		Granite and magnetite silica rock
SHR015	156	158	2	GRT	MTS	QTZ	FD	DO		Granite with pink dolomite and trace magnetite
SHR015	158	160	2	BIF	MTS	QTZ	MT			BIF with magnetite silica rock
SHR015	160	162	2	BIF	MTS	QTZ	MT			BIF with magnetite silica rock
SHR015	162	164	2	BIF	MTS	QTZ	MT	EP		BIF with magnetite silica rock and trace epidote
SHR015	164	166	2	GRT	MTS	QTZ	MT	FD		Granite with magnetite silica rock
SHR015	166	168	2	GRT	MTS	QTZ	MT	FD		Granite with magnetite silica rock
SHR015	168	170	2	GRT	MTS	QTZ	MT	FD		Granite with magnetite silica rock
SHR015	170	172	2	MTS	CHRT	MT	QTZ	CHRT	Hutchison Group	Magnetite silica rock and chert
SHR015	172	174	2	CHRT	MTS	CHRT	MT	QTZ	Hutchison Group	Chert with minor magnetite
SHR015	174	176	2	GRT	MTS	QTZ	MT		Hutchison Group	Grey granite and magnetite silica rock with trace chert

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SHR015	176	178	2	MTS			MT	QTZ	Hutchison Group	Magnetite silica rock
SHR015	178	180	2	GRT	MTS	QTZ	FD	MT		Pink granite and magnetite silica rock
SHR016	0	2	2	CLY	CCR	CLY	CCR			Red clay and calcrete
SHR016	2	4	2	CLY	SND					Brown clay
SHR016	4	6	2	CLY	SND					Brown clay
SHR016	6	8	2	CLY	SND					Brown clay
SHR016	8	10	2	CLY	SND					Brown clay
SHR016	10	12	2	CLY	SND					Brown clay
SHR016	12	14	2	CLY	SND					Brown clay
SHR016	14	16	2	CLY	SND					Brown clay
SHR016	16	18	2	CLY	SND					Brown clay
SHR016	18	20	2	CLY	SND					Brown clay
SHR016	20	22	2	CLY	SND					Brown clay
SHR016	22	24	2	CLY	SND					Brown clay
SHR016	24	26	2	CLY	SND					Brown clay
SHR016	26	28	2	CLY	SND					Brown clay
SHR016	28	30	2	CLY	JASP	JASP	QTZ	FD		Clay and jaspillite with trace feldspar
SHR016	30	32	2	CLY	BIF	JASP	QTZ	AMPH		Clay and BIF with trace amphibolite and magnetite
SHR016	32	34	2	CLY	BIF	JASP	QTZ	AMPH		Clay and BIF with trace amphibolite and magnetite
SHR016	34	36	2	CLY	BIF	JASP	QTZ	AMPH		Clay and BIF with trace amphibolite and magnetite
SHR016	36	38	2	CLY	BIF	JASP	QTZ	AMPH		Clay and BIF with trace amphibolite and magnetite
SHR016	38	40	2	CLY	JASP	JASP	QTZ	AMPH		Clay and jaspillite with trace amphibolite
SHR016	40	42	2	CLY	JASP	JASP	QTZ	AMPH		Clay and jaspillite with trace amphibolite
SHR016	42	44	2	CLY	JASP	JASP	QTZ	AMPH		Clay and jaspillite with trace amphibolite
SHR016	44	46	2	CLY	JASP	JASP	AMPH	QTZ		Clay and jaspillite with amphibolite
SHR016	46	48	2	CLY	JASP	JASP	AMPH			Clay and altered jaspillite with amphibolite
SHR016	48	50	2	CLY	JASP	JASP	AMPH			Clay and altered jaspillite with amphibolite
SHR016	50	52	2	JASP		JASP	AMPH	QTZ	Hutchison	Jaspillite associate

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									Group	with amphibole
SHR016	52	54	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspillite associate with amphibole
SHR016	54	56	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspillite associate with amphibole
SHR016	56	58	2	?					Hutchison Group	red - brown colour mineral with amphibole
SHR016	58	60	2	JASP	?	JASP		AMPH	Hutchison Group	Jaspillite and red-brown colour mineral with amphibole
SHR016	60	62	2	JASP		JASP	AMPH	GOE?	Hutchison Group	Jaspillite with trace amphibole and goethite
SHR016	62	64	2	JASP		JASP	AMPH	GOE?	Hutchison Group	Jaspillite with trace amphibole and goethite
SHR016	64	66	2	JASP	DO	JASP	AMPH	DO	Hutchison Group	Jaspillite, dolomite and amphibole with trace goethite
SHR016	66	68	2	BIF	AMPH	JASP	AMPH	MT	Hutchison Group	BIF and amphibolite with minor magnetite, dolomite
SHR016	68	70	2	BIF	AMPH	JASP	AMPH	MT	Hutchison Group	BIF and amphibolite with minor magnetite, dolomite
SHR016	70	72	2	BIF	AMPH	JASP	AMPH	MT	Hutchison Group	BIF and amphibolite with minor magnetite, dolomite
SHR016	72	74	2	BIF	DO	JASP	MT	QTZ	Hutchison Group	BIF and dolomite with trace magnetite
SHR016	74	76	2	BIF	DO	JASP	MT	QTZ	Hutchison Group	BIF and dolomite with trace magnetite
SHR016	76	78	2	BIF	DO	JASP	MT	QTZ	Hutchison Group	BIF and dolomite with trace magnetite
SHR016	78	80	2	BIF	DO	JASP	MT	QTZ	Hutchison Group	BIF and dolomite with trace magnetite
SHR016	80	82	2	BIF	DO	JASP	MT	QTZ	Hutchison Group	BIF and dolomite with minor magnetite
SHR016	82	84	2	BIF	JASP	JASP	MT	QTZ	Hutchison Group	Jaspillite and BIF with minor magnetite
SHR016	84	86	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR016	86	88	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite

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SHR016	88	90	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR016	90	92	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR016	92	94	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR016	94	96	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR016	96	98	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR016	98	100	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR016	100	102	2	BIF		JASP	QTZ	MT	Hutchison Group	BIF with trace magnetite and dolomite
SHR017	0	2	2	CLY	CCR	CCR				Brown clay and calcrete
SHR017	2	4	2	CLY	SND					Brown clay and sand
SHR017	4	6	2	CLY	SND					Brown clay and sand
SHR017	6	8	2	CLY	SND					Brown clay and sand
SHR017	8	10	2	CLY	SND					Brown clay and sand
SHR017	10	12	2	CLY	SND					Red clay and sand
SHR017	12	14	2	CLY	SND					Brown clay and sand
SHR017	14	16	2	GRT		QTZ	FD			Pink pegmatite
SHR017	16	18	2	GRT		QTZ	FD			Pink pegmatite
SHR017	18	20	2	GRT		QTZ	FD			Pink granite
SHR017	20	22	2	GRT		QTZ	FD			Pink granite
SHR017	22	24	2	GRT		QTZ	FD			Pink granite
SHR017	24	26	2	GRT		QTZ	FD			Pink granite
SHR017	26	28	2	GRT		QTZ	FD			Pink granite
SHR017	28	30	2	GRT		QTZ	FD			Pink granite
SHR017	30	32	2	GRT		QTZ	FD			Pink granite
SHR017	32	34	2	GRT		QTZ	FD			Pink granite
SHR017	34	36	2	GRT		QTZ	FD			Pink granite
SHR017	36	38	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	38	40	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	40	42	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	42	44	2	JASP		JASP	QTZ		Hutchison	Jaspillite

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									Group	
SHR017	44	46	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	46	48	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	48	50	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	50	52	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	52	54	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	54	56	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	56	58	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	58	60	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	60	62	2	JASP		JASP	QTZ		Hutchison Group	Jaspillite
SHR017	62	64	2	JASP		JASP	AMPH	DO	Hutchison Group	Jaspillite with amphibole and trace dolomite
SHR017	64	66	2	JASP		JASP	AMPH		Hutchison Group	Jaspillite with amphibole
SHR017	66	68	2	JASP		JASP	AMPH	EP	Hutchison Group	Jaspillite with amphibole and trace dolomite, epidote and magnetite
SHR017	68	70	2	JASP		JASP	AMPH	EP	Hutchison Group	Jaspillite with amphibole and trace dolomite, epidote and magnetite
SHR017	70	72	2	JASP		JASP	AMPH	EP	Hutchison Group	Jaspillite with amphibole and trace dolomite, epidote and magnetite
SHR017	72	74	2	JASP		JASP	AMPH	EP	Hutchison Group	Jaspillite with amphibole and trace dolomite and epidote
SHR017	74	76	2	JASP		JASP	AMPH	EP	Hutchison Group	Jaspillite with amphibole and trace dolomite and epidote
SHR017	76	78	2	JASP		JASP	AMPH	EP	Hutchison Group	Jaspillite with amphibole and trace dolomite and epidote
SHR017	78	80	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspillite with amphibole and trace dolomite

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SHR017	80	82	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspillite with amphibole and trace dolomite
SHR017	82	84	2	JASP		JASP	AMPH	MT	Hutchison Group	Jaspillite with amphibole minor dolomite and trace magnetite
SHR017	84	86	2	AMPH	JASP	AMPH	JASP	EP	Hutchison Group	Amphibolite and jaspillite with trace dolomite and epidote
SHR017	86	88	2	AMPH	JASP	AMPH	JASP	EP	Hutchison Group	Amphibolite and jaspillite with trace dolomite and epidote
SHR017	88	90	2	JASP	AMPH	JASP	AMPH	QTZ	Hutchison Group	Jaspillite with amphibole and trace dolomite
SHR017	90	92	2	JASP	AMPH	JASP	AMPH	DO	Hutchison Group	Jaspillite with amphibole and dolomite
SHR017	92	94	2	JASP	AMPH	JASP	AMPH	DO	Hutchison Group	Jaspillite with amphibole and dolomite
SHR017	94	96	2	JASP	AMPH	JASP	AMPH	DO	Hutchison Group	Jaspillite with amphibole and dolomite
SHR018	0	2	2	CLY	SND					Brown clay and sand
SHR018	2	4	2	CLY	SND					Brown clay and sand
SHR018	4	6	2	CLY	SND					Brown clay and sand
SHR018	6	8	2	CLY	SND					Brown clay and sand
SHR018	8	10	2	CLY	SND					Brown clay and sand
SHR018	10	12	2	CLY	CHRT	CHRT				Brown clay, chert and weathered iron oxide
SHR018	12	14	2	CLY	SND					Brown clay and sand
SHR018	14	16	2	CLY	SND					Brown clay and sand
SHR018	16	18	2	CLY	SND					Brown clay and sand
SHR018	18	20	2	CLY	SND					Brown clay and sand
SHR018	20	22	2	CLY	SND					Brown clay and sand
SHR018	22	24	2	CLY	SND					Brown clay and sand
SHR018	24	26	2	CLY	SND					Brown clay and sand with weathered iron oxide
SHR018	26	28	2	CLY	BIFOX	JASP	QTZ			Brown clay and sand with weathered banded jaspilite and quartz
SHR018	28	30	2	CLY	BIFOX	JASP	QTZ			Brown clay and sand with weathered

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										banded jaspilite and quartz
SHR018	30	32	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	32	34	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	34	36	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	36	38	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	38	40	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	40	42	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	42	44	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	44	46	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	46	48	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	48	50	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	50	52	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	52	54	2	BIFOX	AMPH	JASP	AMPH	QTZ	Hutchison Group	Weathered jaspilite BIF and amphibolite

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SHR018	54	56	2	BIFOX	AMPH	JASP	AMPH	DI	Hutchison Group	Weathered BIF with trace diopside and amphibolite
SHR018	56	58	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered BIF with trace diopside
SHR018	58	60	2	BIFOX		JASP	AMPH	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	60	62	2	AMPH		AMPH	JASP		Hutchison Group	Amphibolite with trace jaspilite
SHR018	62	64	2	BIFOX		JASP	AMPH	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	64	66	2	BIF		JASP	DI	AMPH	Hutchison Group	BIF with minor diopside and trace amphibole
SHR018	66	68	2	BIF		JASP	DI	AMPH	Hutchison Group	BIF with minor diopside
SHR018	68	70	2	BIF		JASP	AMPH	DI	Hutchison Group	BIF with minor diopside
SHR018	70	72	2	BIF		JASP	AMPH	QTZ	Hutchison Group	BIF With trace diopside
SHR018	72	74	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	74	76	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	76	78	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	78	80	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	80	82	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	82	84	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	84	86	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor dolomite and magnetite
SHR018	86	88	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor dolomite and magnetite

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SHR018	88	90	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor dolomite and magnetite
SHR018	90	92	2	BIF		JASP	MT	DO	Hutchison Group	Banded jaspilite, magnetite and dolomite.
SHR018	92	94	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor magnetite and trace diopside
SHR018	94	96	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor magnetite and trace diopside
SHR018	96	98	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	98	100	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	100	102	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	102	104	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	104	106	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	106	108	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite with minor dolomite and magnetite
SHR018	108	110	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite with minor dolomite and trace magnetite
SHR018	110	112	2	JASP		JASP	QTZ	MT	Hutchison Group	Jaspilite with trace magnetite
SHR018	112	114	2	JASP		JASP	DO	DI	Hutchison Group	Jaspilite and dolomite with minor diopside and trace magnetite
SHR018	114	116	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite with minor dolomite and magnetite
SHR018	116	118	2	JASP	CHRT	JASP	CHRT	AMPH	Hutchison Group	Jaspilite, chert and amphibolite with trace magnetite and dolomite
SHR018	118	120	2	JASP	CHRT	JASP	CHRT	AMPH	Hutchison Group	Jaspilite, chert and amphibolite with trace magnetite and

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										dolomite
SHR018	0	2	2	CLY	SND					Brown clay and sand
SHR018	2	4	2	CLY	SND					Brown clay and sand
SHR018	4	6	2	CLY	SND					Brown clay and sand
SHR018	6	8	2	CLY	SND					Brown clay and sand
SHR018	8	10	2	CLY	SND					Brown clay and sand
SHR018	10	12	2	CLY	CHRT	CHRT				Brown clay, chert and weathered iron oxide
SHR018	12	14	2	CLY	SND					Brown clay and sand
SHR018	14	16	2	CLY	SND					Brown clay and sand
SHR018	16	18	2	CLY	SND					Brown clay and sand
SHR018	18	20	2	CLY	SND					Brown clay and sand
SHR018	20	22	2	CLY	SND					Brown clay and sand
SHR018	22	24	2	CLY	SND					Brown clay and sand
SHR018	24	26	2	CLY	SND					Brown clay and sand with weathered iron oxide
SHR018	26	28	2	CLY	BIFOX	JASP	QTZ			Brown clay and sand with weathered banded jaspilite and quartz
SHR018	28	30	2	CLY	BIFOX	JASP	QTZ			Brown clay and sand with weathered banded jaspilite and quartz
SHR018	30	32	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	32	34	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	34	36	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	36	38	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	38	40	2	CLY	BIFOX	JASP	QTZ	AMPH		Brown clay and weathered banded jaspilite, amphibole and quartz
SHR018	40	42	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz,

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										diopside and amphibole
SHR018	42	44	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	44	46	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	46	48	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	48	50	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	50	52	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	52	54	2	BIFOX	AMPH	JASP	AMPH	QTZ	Hutchison Group	Weathered jaspilite BIF and amphibolite
SHR018	54	56	2	BIFOX	AMPH	JASP	AMPH	DI	Hutchison Group	Weathered BIF with trace diopside and amphibolite
SHR018	56	58	2	BIFOX		JASP	QTZ	DI	Hutchison Group	Weathered BIF with trace diopside
SHR018	58	60	2	BIFOX		JASP	AMPH	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	60	62	2	AMPH		AMPH	JASP		Hutchison Group	Amphibolite with trace jaspilite
SHR018	62	64	2	BIFOX		JASP	AMPH	DI	Hutchison Group	Weathered banded jaspilite, quartz, diopside and amphibole
SHR018	64	66	2	BIF		JASP	DI	AMPH	Hutchison Group	BIF with minor diopside and trace amphibole
SHR018	66	68	2	BIF		JASP	DI	AMPH	Hutchison Group	BIF with minor diopside
SHR018	68	70	2	BIF		JASP	AMPH	DI	Hutchison Group	BIF with minor diopside
SHR018	70	72	2	BIF		JASP	AMPH	QTZ	Hutchison Group	BIF With trace diopside

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SHR018	72	74	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	74	76	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	76	78	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	78	80	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	80	82	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	82	84	2	BIF		JASP	AMPH	MT	Hutchison Group	BIF with trace diopside and magnetite
SHR018	84	86	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor dolomite and magnetite
SHR018	86	88	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor dolomite and magnetite
SHR018	88	90	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor dolomite and magnetite
SHR018	90	92	2	BIF		JASP	MT	DO	Hutchison Group	Banded jaspilite, magnetite and dolomite.
SHR018	92	94	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor magnetite and trace diopside
SHR018	94	96	2	BIF		JASP	DO	MT	Hutchison Group	BIF with minor magnetite and trace diopside
SHR018	96	98	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	98	100	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	100	102	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	102	104	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite

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SHR018	104	106	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with trace diopside and magnetite
SHR018	106	108	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite with minor dolomite and magnetite
SHR018	108	110	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite with minor dolomite and trace magnetite
SHR018	110	112	2	JASP		JASP	QTZ	MT	Hutchison Group	Jaspilite with trace magnetite
SHR018	112	114	2	JASP		JASP	DO	DI	Hutchison Group	Jaspilite and dolomite with minor diopside and trace magnetite
SHR018	114	116	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite with minor dolomite and magnetite
SHR018	116	118	2	JASP	CHRT	JASP	CHRT	AMPH	Hutchison Group	Jaspilite, chert and amphibolite with trace magnetite and dolomite
SHR018	118	120	2	JASP	CHRT	JASP	CHRT	AMPH	Hutchison Group	Jaspilite, chert and amphibolite with trace magnetite and dolomite
SHR019	0	2	2	CLY	CCR	CCR				Brown clay and calcrete
SHR019	2	4	2	CLY	SND					Brown clay and sand
SHR019	4	6	2	CLY	SDST					Brown clay and sandstone with weathered iron oxide
SHR019	6	8	2	CLY	SDST	CCR				Brown clay, sandstone and calcrete with weathered iron oxide
SHR019	8	10	2	CLY	SDST					Brown clay and sandstone with weathered iron oxide
SHR019	10	12	2	CLY	SND					Brown clay and sand
SHR019	12	14	2	CLY	SND					Brown clay and sand
SHR019	14	16	2	CLY	SND					Brown clay and sand
SHR019	16	18	2	CLY	SND					Brown clay and sand
SHR019	18	20	2	CLY	SND					Brown clay and sand
SHR019	20	22	2	CLY	SND					Yellow clay and sand
SHR019	22	24	2	CLY	CHRT					Yellow clay and chert
SHR019	24	26	2	CHRT		CHRT			Hutchison Group	Yellow-brown chert
SHR019	26	28	2	CHRT	QZT	CHRT	QZT	AMPH	Hutchison	Chert and quartzite

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									Group	with amphibolite
SHR019	28	30	2	QZT	AMPH	QZT	AMPH		Hutchison Group	Quartzite with amphibolite
SHR019	30	32	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert and amphibolite
SHR019	32	34	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert and amphibolite
SHR019	34	36	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert and amphibolite
SHR019	36	38	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert and amphibolite
SHR019	38	40	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert and amphibolite
SHR019	40	42	2	CHRT	JASP	CHRT	JASP	AMPH	Hutchison Group	Chert with amphibolite and jaspilite
SHR019	42	44	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert with amphibolite
SHR019	44	46	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert with amphibolite
SHR019	46	48	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert with amphibolite
SHR019	48	50	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert with amphibolite
SHR019	50	52	2	CHRT	AMPH	CHRT	AMPH		Hutchison Group	Chert with amphibolite
SHR019	52	54	2	CHRT	AMPH	CHRT	AMPH	JASP	Hutchison Group	Chert with amphibolite and jaspilite, trace diopside
SHR019	54	56	2	CHRT	GRT	CHRT	QZT	MT	Hutchison Group	Chert and grey granite with trace magnetite
SHR019	56	58	2	CHRT	AMPH	CHRT	AMPH	MT	Hutchison Group	Chert with amphibolite and trace magnetite
SHR019	58	60	2	CHRT	AMPH	CHRT	AMPH	MT	Hutchison Group	Chert with amphibolite and trace magnetite
SHR019	60	62	2	CHRT	AMPH	CHRT	AMPH	MT	Hutchison Group	Chert with amphibolite and trace magnetite
SHR019	62	64	2	BIF		QTZ	MT		Hutchison Group	Banded quartz and magnetite
SHR019	64	66	2	BIF		QTZ	MT		Hutchison Group	Banded quartz and magnetite
SHR019	66	68	2	BIF		QTZ	MT		Hutchison Group	Banded quartz and magnetite
SHR019	68	70	2	BIF		QTZ	MT		Hutchison Group	Banded quartz and magnetite
SHR019	70	72	2	BIF		QTZ	MT		Hutchison Group	Banded quartz and magnetite
SHR019	72	74	2	BIF		QTZ	MT		Hutchison	Banded quartz and

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									Group	magnetite
SHR019	74	76	2	BIF		QTZ	MT		Hutchison Group	Banded quartz and magnetite
SHR019	76	78	2	BIF		QTZ	MT		Hutchison Group	Banded quartz and magnetite
SHR019	78	80	2	AMPH	BIF	AMPH	QTZ	MT	Hutchison Group	Amphibolite and BIF with trace magnetite
SHR019	80	82	2	GRT	AMPH	QTZ	AMPH	FD	Hutchison Group	Granite and amphibolite with trace magnetite
SHR019	82	84	2	GRT	AMPH	QTZ	AMPH	FD	Hutchison Group	Granite and amphibolite with trace magnetite
SHR019	84	86	2	GRT	AMPH	QTZ	AMPH	FD	Hutchison Group	Granite and amphibolite with trace magnetite
SHR019	86	88	2	JASP	AMPH	JASP	AMPH		Hutchison Group	Jaspilite and amphibolite with trace magnetite
SHR019	88	90	2	GRT	AMPH	QTZ	AMPH	FD	Hutchison Group	Granite and amphibolite with trace magnetite
SHR019	90	92	2	GRT	AMPH	QTZ	AMPH	FD	Hutchison Group	Granite and amphibolite with trace magnetite
SHR019	92	94	2	JASP	AMPH	JASP	AMPH	DO	Hutchison Group	Jaspilite with amphibole and trace diopside
SHR019	94	96	2	JASP	AMPH	JASP	AMPH	DO	Hutchison Group	Jaspilite with amphibole and minor diopside
SHR019	96	98	2	JASP	AMPH	JASP	AMPH	DO	Hutchison Group	Jaspilite with amphibole and trace diopside and magnetite
SHR019	98	100	2	GRT	AMPH	QTZ	AMPH	MT	Hutchison Group	Granite and amphibolite with trace magnetite
SHR019	100	102	2	GRT	AMPH	QTZ	AMPH	MT	Hutchison Group	Granite and amphibolite with trace magnetite
SHR019	102	104	2	GRT	AMPH	QTZ	AMPH	MT	Hutchison Group	Granite and amphibolite with trace magnetite and diopside
SHR019	104	106	2	MTS	AMPH	QTZ	MT	AMPH	Hutchison Group	Magnetite silica rock and amphibolite
SHR019	106	108	2	AMPH	MTS	AMPH	QTZ	MT	Hutchison	Amphibolite and

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									Group	magnetite silica rock with trace diopside
SHR019	108	110	2	AMPH	MTS	AMPH	QTZ	MT	Hutchison Group	Amphibolite and magnetite silica rock
SHR019	110	112	2	AMPH	MTS	AMPH	QTZ	MT	Hutchison Group	Amphibolite and magnetite silica rock
SHR019	112	114	2	AMPH		AMPH	DO	MT	Hutchison Group	Amphibolite, dolomite and magnetite with trace epidote and pyrite
SHR019	114	116	2	MTO	DO	MT	DO	pyrite	Hutchison Group	High grade magnetite with dolomite and pyrite
SHR019	116	118	2	MTO	DO	MT	DO	pyrite	Hutchison Group	High grade magnetite with dolomite and pyrite
SHR019	118	120	2	MTO	QTZ	MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz vein and pyrite
SHR019	120	122	2	MTO	AMPH	MT	AMPH	QTZ	Hutchison Group	High grade magnetite with quartz and amphibolite, trace epidote and pyrite
SHR019	122	124	2	MTO		MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz and trace epidote and pyrite
SHR019	124	126	2	MTO		MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz and trace epidote and pyrite
SHR019	126	128	2	MTO		MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz and trace epidote and pyrite
SHR019	128	130	2	MTO		MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz and trace epidote and pyrite
SHR019	130	132	2	MTO		MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz and trace epidote and pyrite
SHR019	132	134	2	MTO		MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz and trace epidote and pyrite
SHR019	134	136	2	MTO		MT	QTZ	pyrite	Hutchison Group	High grade magnetite with quartz and trace epidote and pyrite
SHR019	136	138	2	AMPH	DO	AMPH	DO	MT	Hutchison Group	Amphibolite and dolomite with minor magnetite, trace epidote and pyrite

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SHR019	138	140	2	AMPH		AMPH	MT	pyrite	Hutchison Group	Amphibolite with minor magnetite and trace pyrite
SHR019	140	142	2	AMPH		AMPH	MT	pyrite	Hutchison Group	Amphibolite with minor magnetite and trace pyrite
SHR019	142	144	2	AMPH		AMPH	MT	pyrite	Hutchison Group	Amphibolite with trace magnetite and pyrite
SHR019	144	146	2	AMPH	DO	AMPH	MT	DO	Hutchison Group	Amphibolite with trace magnetite-dolomite and pyrite
SHR019	146	148	2	MTO	DO	MT	DO	EP	Hutchison Group	High grade magnetite-dolomite and trace epidote
SHR019	148	150	2	MTCRB		DO	MT		Hutchison Group	White dolomite and magnetite-dolomite.
SHR019	150	152	2	MTCRB		DO	MT		Hutchison Group	White dolomite and magnetite-dolomite.
SHR019	152	154	2	MTO	DO	MT	DO		Hutchison Group	High grade magnetite-dolomite
SHR019	154	156	2	MTCRB		DO	MT		Hutchison Group	White dolomite and magnetite-dolomite.
SHR019	156	158	2	MTO	DO	MT	DO		Hutchison Group	High grade magnetite-dolomite
SHR019	158	160	2	MTCRB		DO	MT		Hutchison Group	White dolomite and magnetite-dolomite.
SHR019	160	162	2	MTCRB		DO	MT		Hutchison Group	White dolomite and magnetite-dolomite.
SHR019	162	164	2	MTO	DO	MT	DO		Hutchison Group	High grade magnetite-dolomite
SHR019	164	166	2	MTCRB	DO	DO	MT		Hutchison Group	White dolomite and magnetite-dolomite.
SHR019	166	168	2	MTO	DO	MT	DO		Hutchison Group	High grade magnetite-dolomite
SHR019	168	170	2	MTO	DO	MT	DO	QTZ	Hutchison Group	High grade magnetite-dolomite with green quartz and trace pyrite
SHR019	170	172	2	MTO	DO	MT	DO	QTZ	Hutchison Group	High grade magnetite-dolomite with green quartz and trace pyrite
SHR019	172	174	2	MTO	DO	MT	DO	QTZ	Hutchison Group	High grade magnetite-dolomite with green quartz and trace pyrite
SHR019	174	176	2	MTCRB	AMPH	MT	DO	QTZ	Hutchison Group	Magnetite-dolomite with green quartz, amphibolite and trace pyrite

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SHR019	176	178	2	AMPH	MTCRB	MT	DO	QTZ	Hutchison Group	Amphibolite and green quartz with minor magnetite-dolomite and trace pyrite
SHR019	178	180	2	MTCRB	AMPH	MT	DO	QTZ	Hutchison Group	Magnetite-dolomite with green quartz, amphibolite and trace pyrite
SHR020	0	2	2	CLY	CCR	CCR				Brown clay and sand with calcrete
SHR020	2	4	2	CLY	SND	CCR				Brown clay and sand with minor calcrete
SHR020	4	6	2	CLY	SND	CCR				Brown clay and sand with trace calcrete
SHR020	6	8	2	CLY	SND					Red clay and sand
SHR020	8	10	2	CLY	SND					Brown clay and sand with weathered iron oxide
SHR020	10	12	2	CLY	SND					Brown clay and sand
SHR020	12	14	2	CLY	SDST					Brown clay and sandstone
SHR020	14	16	2	CLY	SND					Brown clay and sand
SHR020	16	18	2	CLY	SND					Brown clay and sand
SHR020	18	20	2	CLY	SND					Brown clay and sand
SHR020	20	22	2	CLY	SND					Brown clay and sand
SHR020	22	24	2	CLY	SND					Brown clay and sand
SHR020	24	26	2	CLY	SDST					Brown clay and sandstone
SHR020	26	28	2	CLY	SDST					Brown clay and sandstone
SHR020	28	30	2	CLY	SDST					Brown clay and sandstone
SHR020	30	32	2	CLY	SDST					Brown clay and sandstone
SHR020	32	34	2	CLY	QZT					Brown clay and quartzite
SHR020	34	36	2	CLY	QZT					Brown clay and sandstone
SHR020	36	38	2	CLY	QZT					Brown clay and quartzite
SHR020	38	40	2	CLY	QZT					Brown clay and quartzite
SHR020	40	42	2	CLY	QZT					Brown clay and quartzite
SHR020	42	44	2	QZT	QZT					Brown quartzite
SHR020	44	46	2	QZT	QZT					Brown quartzite
SHR020	46	48	2	QZT	QZT					Brown quartzite

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SHR020	48	50	2	QZT	QZT				Brown quartzite
SHR020	50	52	2	GNS		QTZ	AMPH	MT	Quartz-amphibole gneiss with trace magnetite
SHR020	52	54	2	GNS		QTZ	AMPH	MT	Quartz-amphibole gneiss with trace magnetite
SHR020	54	56	2	GRT		QTZ	AMPH	FD	Grey granite with trace magnetite
SHR020	56	58	2	GRT	JASP	QTZ	JASP	QTZ	Grey granite, banded jaspilite with trace magnetite and calcite
SHR020	58	60	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with trace magnetite
SHR020	60	62	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with trace magnetite and epidote
SHR020	62	64	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with trace magnetite and epidote
SHR020	64	66	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with trace magnetite and epidote
SHR020	66	68	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with trace magnetite and epidote
SHR020	68	70	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with trace magnetite and epidote
SHR020	70	72	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with trace magnetite and epidote
SHR020	72	74	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with minor dolomite, trace magnetite and epidote
SHR020	74	76	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-quartz gneiss with minor dolomite, trace magnetite and epidote
SHR020	76	78	2	GNS		JASP	AMPH	QTZ	Jaspilite-amphibole-

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										quartz gneiss with minor dolomite, trace magnetite and epidote
SHR020	78	80	2	GNS		JASP	AMPH	QTZ		Jaspilite-amphibole-quartz gneiss with trace dolomite, magnetite and epidote
SHR020	80	82	2	GNS		JASP	AMPH	QTZ		Jaspilite-amphibole-quartz gneiss with trace dolomite, magnetite and epidote
SHR020	82	84	2	GNS		JASP	AMPH	QTZ		Jaspilite-amphibole-quartz gneiss with trace dolomite, magnetite and epidote
SHR020	84	86	2	GNS		JASP	AMPH	QTZ		Jaspilite-amphibole-quartz gneiss with trace magnetite
SHR020	86	88	2	GNS		JASP	AMPH	QTZ		Jaspilite-amphibole-quartz gneiss with trace magnetite
SHR020	88	90	2	GNS		JASP	AMPH	QTZ		Jaspilite-amphibole-quartz gneiss with trace magnetite
SHR020	90	92	2	GNS		JASP	AMPH	QTZ		Jaspilite-amphibole-quartz gneiss with trace magnetite
SHR020	92	94	2	GNS		AMPH	QTZ	EP		Amphibole-quartz-feldspar gneiss with trace epidote
SHR020	94	96	2	GNS		AMPH	QTZ	EP		Amphibole-quartz-feldspar gneiss
SHR020	96	98	2	GNS		AMPH	JASP	MT		Amphibole-jaspilite-quartz gneiss with minor magnetite
SHR020	98	100	2	BIF	CHRT	MT	pyrite		Hutchison Group	magnetite BIF & chert. Trace pyrite
SHR020	100	102	2	BIF	JASP	MT	pyrite		Hutchison Group	magnetite BIF & jaspilite + minor chert. Trace pyrite
SHR020	102	104	2	JASP	MTS	MT		?epidote	Hutchison Group	jaspilite + minor magnetite-silica rock & ?epidote
SHR020	104	106	2	MTO/MTS	JASP	MT		?epidote	Hutchison Group	magnetite / magnetite-silica rock + jaspilite + minor ?epidote
SHR020	106	108	2	AMPH/MTO/JASP		MT	pyrite	?epidote	Hutchison Group	amphibolite (with trace pyrite) / magnetite /

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										jaspilite + minor ?epidote
SHR020	108	110	2	MTO	?GRN	MT	pyrite	?epidote	Hutchison Group	magnetite + ?granite + trace ?epidote & pyrite
SHR020	110	112	2	MTO	BIF	MT	pyrite		Hutchison Group	magnetite + magnetite BIF + trace ?granite & pyrite
SHR020	112	114	2	MTO	JASP	MT	pyrite	?epidote	Hutchison Group	magnetite + minor jaspilite & ?epidote + trace pyrite
SHR020	114	116	2	MTO	BIF	MT	pyrite		Hutchison Group	magnetite + magnetite BIF + trace pyrite
SHR020	116	118	2	BIF	CHRT	MT			Hutchison Group	magnetite BIF + minor chert
SHR020	118	120	2	MTO	BIF	MT			Hutchison Group	magnetite + magnetite BIF
SHR020	120	122	2	MTO	BIF	MT			Hutchison Group	magnetite + magnetite BIF
SHR020	122	124	2	BIF	MTO/MTS	MT	pyrite		Hutchison Group	magnetite BIF + magnetite / magnetite- silica rock + trace pyrite
SHR020	124	126	2	BIF		MT	pyrite		Hutchison Group	magnetite BIF + trace pyrite
SHR020	126	128	2	BIF	MTO	MT	pyrite		Hutchison Group	magnetite BIF + magnetite + trace pyrite
SHR020	128	130	2	BIF/MTO	MTS	MT	pyrite		Hutchison Group	magnetite BIF + magnetite + minor magnetite-silica rock + trace pyrite
SHR020	130	132	2	MTO	BIF	MT	pyrite		Hutchison Group	magnetite + magnetite BIF + trace pyrite
SHR020	132	134	2	MTO	BIF	MT	pyrite		Hutchison Group	magnetite + minor magnetite BIF + trace pyrite
SHR020	134	136	2	MTO		MT	pyrite		Hutchison Group	magnetite + trace pyrite
SHR020	136	138	2	MTO	BIF	MT	pyrite		Hutchison Group	magnetite + magnetite BIF + trace pyrite
SHR020	138	140	2	MTO	BIF/CHRT	MT	pyrite		Hutchison Group	magnetite + magnetite BIF / chert + trace pyrite
SHR020	140	142	2	MTO	CHRT	MT	pyrite		Hutchison Group	magnetite + minor chert + trace pyrite
SHR020	142	144	2	MTO	CHRT	MT	pyrite		Hutchison Group	magnetite + minor chert + trace pyrite

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SHR020	144	146	2	CHRT/MTS		MT	pyrite	?epidote	Hutchison Group	chert / manetite-silica rock + trace pyrite & ?epidote
SHR020	146	148	2	MTO/MTS		MT	pyrite		Hutchison Group	magnetite / magnetite-silica rock + trace pyrite
SHR020	148	150	2	MTO/MTS	DOL	MT	pyrite		Hutchison Group	magnetite / magnetite-silica rock + minor pink dolomite + trace pyrite
SHR020	150	152	2	BIF	DOL	MT	pyrite		Hutchison Group	magnetite BIF + trace pink dolomite & pyrite
SHR020	152	154	2	BIF		MT	pyrite		Hutchison Group	magnetite BIF + trace pyrite
SHR020	154	156	2	BIF		MT			Hutchison Group	magnetite BIF
SHR020	156	158	2	MTO/MTS		MT	pyrite		Hutchison Group	magnetite / magnetite-silica rock + trace pyrite
SHR020	158	160	2	BIF		MT			Hutchison Group	magnetite BIF
SHR020	160	162	2	BIF	MTS	MT	pyrite		Hutchison Group	magnetite BIF + magnetite-silica rock + trace pyrite
SHR020	162	164	2	MTO/MTS	BIF	MT	pyrite		Hutchison Group	magnetite / magnetite-silica rock + magnetite BIF + minor pyrite
SHR020	164	166	2	BIF		MT			Hutchison Group	magnetite BIF
SHR020	166	168	2	BIF		MT			Hutchison Group	magnetite BIF
SHR020	168	170	2	BIF	MTS/CHRT	MT	pyrite		Hutchison Group	magnetite BIF + magnetite-silica rock / chert + trace pyrite
SHR020	170	172	2	BIF		MT	pyrite		Hutchison Group	magnetite BIF
SHR020	172	174	2	BIF	MTS	MT	pyrite		Hutchison Group	magnetite BIF + minor magnetite-silica rock + trace pyrite
SHR020	174	176	2	BIF	MTS	MT	pyrite		Hutchison Group	magnetite BIF + minor magnetite-silica rock + trace pyrite
SHR020	176	178	2	BIF	MTS	MT	pyrite		Hutchison Group	magnetite BIF + minor magnetite-silica rock + trace pyrite
SHR020	178	180	2	BIF	MTS	MT	pyrite		Hutchison Group	magnetite BIF + minor magnetite-silica rock + trace pyrite end of

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										hole 180 metres
SHR021	0	2	2	CLY	SND					Brown clay and sand
SHR021	2	4	2	CLY	SND					Brown clay and sand
SHR021	4	6	2	CLY	SND					Brown clay and sand
SHR021	6	8	2	CLY	SND					Brown clay and sand
SHR021	8	10	2	CLY	SND					Brown clay and sand
SHR021	10	12	2	CLY	SND					Brown clay and sand
SHR021	12	14	2	CLY	SND					Red clay and sand
SHR021	14	16	2	CLY	SND					Brown clay and sand
SHR021	16	18	2	CLY	SND					Brown clay and sand
SHR021	18	20	2	CLY	SND					Brown clay and sand
SHR021	20	22	2	CLY	SND					Brown clay and sand
SHR021	22	24	2	CLY	SND					Brown clay and sand
SHR021	24	26	2	CLY	SND					Brown clay and sand
SHR021	26	28	2	CLY	SND					Brown clay and sand
SHR021	28	30	2	CLY	SND					Brown clay and sand
SHR021	30	32	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	32	34	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	34	36	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	36	38	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	38	40	2	CLY	JASP	JASP	QTZ	AMPH	Hutchison Group	Brown clay and sand with weathered jaspilite, amphibolite
SHR021	40	42	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	42	44	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	44	46	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	46	48	2	CLY	JASP	JASP	QTZ		Hutchison Group	Brown clay and sand with weathered jaspilite
SHR021	48	50	2	JASP		JASP	QTZ		Hutchison Group	Weathered jaspilite and quartz
SHR021	50	52	2	JASP		JASP	QTZ		Hutchison Group	Weathered jaspilite and quartz

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SHR021	52	54	2	JASP	AMPH	JASP	AMPH	QTZ	Hutchison Group	Weathered jaspilite amphibolite and quartz
SHR021	54	56	2	JASP	AMPH	JASP	AMPH	QTZ	Hutchison Group	Weathered jaspilite amphibolite and quartz
SHR021	56	58	2	JASP	AMPH	JASP	AMPH	QTZ	Hutchison Group	Jaspilite and minor amphibolite with trace magnetite
SHR021	58	60	2	JASP		JASP	QTZ	MT	Hutchison Group	Jaspilite with trace magnetite
SHR021	60	62	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite with trace amphibole
SHR021	62	64	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite with trace magnetite
SHR021	64	66	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite with trace magnetite
SHR021	66	68	2	JASP	AMPH	JASP	AMPH	QTZ	Hutchison Group	Banded jaspilite and amphibolite with trace magnetite
SHR021	68	70	2	BIF		JASP	DO	QTZ	Hutchison Group	Banded jaspilite, dolomite, quartz and trace magnetite
SHR021	70	72	2	BIF		JASP	QTZ	AMPH	Hutchison Group	Banded jaspilite, quartz, amphibolite and trace dolomite and magnetite
SHR021	72	74	2	BIF		QTZ	MT	JASP	Hutchison Group	Banded quartz and magnetite
SHR021	74	76	2	BIF		JASP	MT	QTZ	Hutchison Group	Banded jaspilite, quartz and minor magnetite
SHR021	76	78	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, quartz, dolomite and trace magnetite
SHR021	78	80	2	BIF		JASP	AMPH	DO	Hutchison Group	Banded jaspilite, amphibolite, dolomite and trace magnetite
SHR021	80	82	2	BIF		JASP	AMPH	DO	Hutchison Group	Banded jaspilite, amphibolite, dolomite and trace magnetite
SHR021	82	84	2	BIF		JASP	AMPH	DO	Hutchison Group	Banded jaspilite, amphibolite, dolomite and trace magnetite
SHR021	84	86	2	BIF		JASP	AMPH	MT	Hutchison Group	Banded jaspilite, amphibolite,

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										magnetite, dolomite with trace pyrite
SHR021	86	88	2	BIF		JASP	AMPH	MT	Hutchison Group	Banded jaspilite, amphibolite, magnetite, dolomite with trace pyrite
SHR021	88	90	2	BIF		JASP	AMPH	MT	Hutchison Group	Banded jaspilite, amphibolite, dolomite with trace magnetite and pyrite
SHR021	90	92	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and trace magnetite and pyrite
SHR021	92	94	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and trace magnetite and pyrite
SHR021	94	96	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and trace magnetite and pyrite
SHR021	96	98	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and trace magnetite
SHR021	98	100	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and minor magnetite
SHR021	100	102	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and minor magnetite
SHR021	102	104	2	BIF		JASP	MT	DO	Hutchison Group	Banded jaspilite, magnetite and trace dolomite
SHR021	104	106	2	BIF		JASP	MT	DO	Hutchison Group	Banded jaspilite, magnetite and dolomite with trace pyrite and epidote
SHR021	106	108	2	BIF		JASP	MT	DO	Hutchison Group	Banded jaspilite, magnetite and dolomite
SHR021	108	110	2	BIF		JASP	MT	QTZ	Hutchison Group	Banded jaspilite and minor magnetite
SHR021	110	112	2	BIF		JASP	MT	DO	Hutchison Group	Banded jaspilite, dolomite and minor magnetite
SHR021	112	114	2	JASP	AMPH	JASP	AMPH	MT	Hutchison Group	Jaspilite and amphibolite with trace magnetite
SHR021	114	116	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite and dolomite with minor

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										magnetite
SHR021	116	118	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite and dolomite with trace magnetite
SHR021	118	120	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite and dolomite with trace magnetite
SHR021	120	122	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite and dolomite with trace magnetite
SHR021	122	123	1	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite and dolomite with trace magnetite
SHR022	0	2	2	CLY	SND					Red clay and sand
SHR022	2	4	2	CLY	SND					Brown clay and sand
SHR022	4	6	2	CLY	SND					Brown clay and sand
SHR022	6	8	2	CLY	SND					Brown clay and sand
SHR022	8	10	2	CLY	SND					Brown clay and sand
SHR022	10	12	2	CLY	SND					Brown clay and sand
SHR022	12	14	2	CLY	SND					Brown clay and sand
SHR022	14	16	2	CLY	BIF	JASP	QTZ			Brown clay and sand with weathered BIF and iron oxide
SHR022	16	18	2	CLY	BIF	JASP	QTZ			Brown clay and sand with weathered BIF and iron oxide
SHR022	18	20	2	CLY	BIF	JASP	QTZ			Brown clay and sand with weathered BIF and iron oxide
SHR022	20	22	2	CLY	BIF	JASP	QTZ			Brown clay and sand with weathered BIF and iron oxide
SHR022	22	24	2	CLY	BIF	JASP	QTZ			Brown clay and sand with weathered BIF and iron oxide
SHR022	24	26	2	CLY	BIF	JASP	QTZ			Brown clay and sand with weathered BIF and iron oxide
SHR022	26	28	2	CLY	SND					Brown clay and sand
SHR022	28	30	2	CLY	SND					Brown clay and sand
SHR022	30	32	2	CLY	SND					Brown clay and sand
SHR022	32	34	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite and iron oxide
SHR022	34	36	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite and iron oxide

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SHR022	36	38	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite and iron oxide
SHR022	38	40	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite and iron oxide
SHR022	40	42	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite
SHR022	42	44	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite
SHR022	44	46	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite
SHR022	46	48	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite
SHR022	48	50	2	CLY	GRT	QTZ	FD			Brown clay and sand with weathered granite
SHR022	50	52	2	CLY	GRT	QTZ	FD	JASP		Brown clay and sand with weathered granite and jaspilite
SHR022	52	54	2	CLY	GRT	QTZ	FD	JASP		Brown clay and sand with weathered granite and jaspilite
SHR022	54	56	2	CLY	GRT	QTZ	FD	JASP		Brown clay and sand with weathered granite and jaspilite
SHR022	56	58	2	GRT		QTZ	FD	PY		Weathered granite with pyrite
SHR022	58	60	2	GRT		QTZ	FD	PY		Weathered granite with pyrite
SHR022	60	62	2	GRT		QTZ	FD	PY		Weathered granite with pyrite
SHR022	62	64	2	JASP		JASP	QTZ	EP	Hutchison Group	Jaspilite with trace epidote
SHR022	64	66	2	JASP		JASP	QTZ		Hutchison Group	Sheared jaspilite
SHR022	66	68	2	JASP		JASP	QTZ	PY	Hutchison Group	Jaspilite with trace pyrite and magnetite
SHR022	68	70	2	JASP		JASP	QTZ	MT	Hutchison Group	Jaspilite with trace pyrite and magnetite
SHR022	70	72	2	JASP		JASP	QTZ	TALC ?	Hutchison Group	Jaspilite and yellow talc ?
SHR022	72	74	2	JASP		JASP	QTZ	TALC	Hutchison Group	Jaspilite and yellow talc ?
SHR022	74	76	2	JASP		JASP	QTZ	TALC	Hutchison Group	Jaspilite and yellow talc ?
SHR022	76	78	2	JASP		JASP	QTZ	TALC	Hutchison Group	Jaspilite and yellow talc ?

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SHR022	78	80	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite
SHR022	80	82	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite
SHR022	82	84	2	JASP		JASP	AMPH	QTZ	Hutchison Group	Jaspilite and amphibolite
SHR022	84	86	2	JASP		JASP	DO	MT	Hutchison Group	Jaspilite and dolomite with minor magnetite and trace pyrite
SHR022	86	88	2	JASP		JASP	MT	QTZ	Hutchison Group	Jaspilite with trace magnetite
SHR022	88	90	2	JASP		JASP	MT	QTZ	Hutchison Group	Jaspilite with trace magnetite
SHR022	90	92	2	JASP		JASP	AMPH	DO	Hutchison Group	Jaspilite, amphibolite and dolomite with trace magnetite and pyrite
SHR022	92	94	2	JASP	AMPH	JASP	AMPH	DO	Hutchison Group	Jaspilite, amphibolite and dolomite with trace magnetite and pyrite
SHR022	94	96	2	AMPH		AMPH	DO	MT		Amphibolite with minor dolomite and trace magnetite and pyrite
SHR022	96	98	2	AMPH	QZT	AMPH	QZT	PY		Amphibolite and quartzite with trace pyrite and magnetite
SHR022	98	100	2	AMPH		AMPH	PY			Amphibolite with trace pyrite
SHR022	100	102	2	AMPH		AMPH	PY	EP		Amphibolite with trace epidote and pyrite
SHR022	102	104	2	AMPH		AMPH	MT	PY		Amphibolite with trace magnetite and pyrite
SHR022	104	106	2	AMPH		AMPH	MT	PY		Amphibolite with trace magnetite and pyrite
SHR022	106	108	2	AMPH		AMPH	MT	EP		Amphibolite with trace magnetite, pyrite and epidote
SHR022	108	110	2	AMPH		AMPH		MT		Amphibolite with trace magnetite and pyrite
SHR022	110	112	2	AMPH		AMPH		MT		Amphibolite with minor magnetite and trace pyrite
SHR022	112	114	2	AMPH		AMPH		MT		Amphibolite with minor magnetite and trace pyrite
SHR022	114	116	2	AMPH		AMPH	DO	MT		Amphibolite with minor dolomite and trace

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									magnetite and pyrite
SHR022	116	118	2	AMPH		AMPH	DO	MT	Amphibolite with minor dolomite and trace magnetite and pyrite
SHR022	118	120	2	AMPH		AMPH	MT	PY	Amphiboite with minor magnetite and trace pyrite
SHR022	120	122	2	AMPH		AMPH	MT	PY	Amphiboite with minor magnetite and trace pyrite
SHR022	122	124	2	AMPH		AMPH	DO	MT	Amphibolite with minor dolomite and magnetite, trace pyrite
SHR022	124	126	2	AMPH		AMPH	MT	PY	Amphibolite with magnetite and trace pyrite
SHR022	126	128	2	AMPH		AMPH	DO	MT	Amphibolite and dolomite with minor magnetite and trace pyrite
SHR022	128	130	2	AMPH		AMPH	MT	PY	Amphibolite with trace magnetite and pyrite
SHR022	130	132	2	AMPH		AMPH	MT	PY	Amphibolite with trace magnetite and pyrite
SHR022	132	134	2	AMPH		AMPH	DO	MT	Amphibolite and dolomite with trace magnetite and pyrite
SHR022	134	136	2	QZT		QZT	DO		Magnetic quartzite and dolomite
SHR022	136	138	2	AMPH		AMPH	DO	MT	Amphibolite and dolomite with trace magnetite and pyrite
SHR022	138	140	2	BIF	QZT	JASP	DO	MT	Hutchison Group Magnetic quartzite and banded jaspilite, dolomite, minor magnetite and trace epidote
SHR022	140	142	2	BIF		JASP	DO	MT	Hutchison Group Banded jaspilite, dolomite and minor magnetite
SHR022	142	144	2	BIF		JASP	DO	MT	Hutchison Group Banded jaspilite, dolomite and minor magnetite
SHR022	144	146	2	BIF		JASP	DO	MT	Hutchison Group Banded jaspilite, dolomite and minor magnetite
SHR022	146	148	2	BIF		JASP	DO	MT	Hutchison Group Banded jaspilite, dolomite and minor

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										magnetite
SHR022	148	150	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and minor magnetite
SHR022	150	152	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite and minor magnetite
SHR022	152	154	2	BIF	QZT	JASP	DO	MT	Hutchison Group	Magnetic quartzite and banded jaspilite, dolomite and minor magnetite
SHR022	154	156	2	QZT		QZT	DO		Hutchison Group	Magnetic quartzite and dolomite
SHR022	156	158	2	QZT		QZT	DO		Hutchison Group	Magnetic quartzite and dolomite
SHR022	158	160	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite, quartz and minor magnetite
SHR022	160	162	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite, quartz and minor magnetite
SHR022	162	164	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite, quartz and minor magnetite
SHR022	164	166	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite, quartz and minor magnetite
SHR022	166	168	2	BIF	AMPH	JASP	AMPH	MT	Hutchison Group	Amphibolite and banded jaspilite, quartz, dolomite and minor magnetite
SHR022	168	170	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite, quartz and minor magnetite
SHR022	170	172	2	BIF		JASP	DO	MT	Hutchison Group	Banded jaspilite, dolomite, quartz and magnetite
SHR022	172	174	2	BIF	QZT	JASP	QZT	DO	Hutchison Group	Magnetic quartzite and banded jaspilite, dolomite and trace magnetite
SHR022	174	175	1	MBL		AMPH	DO	MT		Black marble with trace magnetite
SHR023	0	2	2	SND	CLY	CCR				red/brown sand & clay + nodular calcrete
SHR023	2	4	2	SND	CLY					red & white sands & red clay
SHR023	4	6	2	SND	CLY					red & white sands

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SHR023	6	8	2	SND	CLY				red & white sands & clays
SHR023	8	10	2	SND	CLY				red & yellow sands & clays
SHR023	10	12	2	SND	CLY				red & yellow sands & clays
SHR023	12	14	2	SND	CLY				red, white & yellow sands & clays
SHR023	14	16	2	SND	CLY				yellow & brown clays & sands
SHR023	16	18	2	SND	CLY				red & yellow sands & clays
SHR023	18	20	2	SND	CLY				red & white clays & sands
SHR023	20	22	2	SND	CLY				red & white sands & clays
SHR023	22	24	2	SND	CLY				white & red sands & clays
SHR023	24	26	2	SND	CLY				red & brown sands & clays
SHR023	26	28	2	SND	CLY				red & brown sands & clays
SHR023	28	30	2	SND	CLY				red & brown sands & clays
SHR023	30	32	2	SND	CLY				red & brown sands & clays
SHR023	32	34	2	SND	CLY				red & brown sands & clays
SHR023	34	36	2	SND	CLY				brown & white sands and clays
SHR023	36	38	2	SND	CLY				white & red sands & clays
SHR023	38	40	2	CLY	SND	silica			brown & olive clays & sands + minor silica fragments
SHR023	40	42	2	CLY	SND	silica			brown & olive clays & sands + minor silica fragments
SHR023	42	44	2	CLY	SND	silica	limonite		olive clay & sand + minor silica & limonite fragments
SHR023	44	46	2	CLY	SND	silica	limonite		olive clay & sand + minor silica & limonite fragments
SHR023	46	48	2	CLY	SND/?JASP	silica	limonite		olive & white clays & sands + minor silica, limonite and

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									weathered ?jaspilite
SHR023	48	50	2	CLY/SND	JASP	silica	limonite		olive clays & sands + minor silica, limonite and weathered jaspilite
SHR023	50	52	2	CLY/SND	JASP	silica	limonite		olive clays & sands + minor silica, limonite and weathered jaspilite
SHR023	52	54	2	CLY/SND	JASP/?schist	silica	limonite		olive clays & sands + minor silica, limonite and weathered jaspilite & ?schist
SHR023	54	56	2	CLY	JASP/?schist		limonite	chlorite	olive clays & minor sands + minor limonite and weathered jaspilite & chlorite ?schist
SHR023	56	58	2	CLY	JASP/?schist		limonite	chlorite	olive clays & minor sands + minor limonite and weathered jaspilite & chlorite ?schist
SHR023	58	60	2	CLY	JASP/?schist/quartzite			chlorite	pale olive clays + minor limonite and weathered jaspilite, quartzite & chlorite ?schist
SHR023	60	62	2	CLY	JASP/?schist/quartzite			chlorite	light brown clays + jaspilite + minor quartzite & chlorite ?schist
SHR023	62	64	2	CLY	JASP/?schist/quartzite			chlorite	brown clays + jaspilite + minor quartzite & chlorite ?schist
SHR023	64	66	2	CLY	JASP/?schist/quartzite			chlorite	brown/olive clays + jaspilite + minor chlorite ?schist
SHR023	66	68	2	schist	JASP/?AMPH			chlorite	chlorite-altered biotite schist + jaspilite schist + minor jaspilite & ?amphibolite. Possibly a shear zone
SHR023	68	70	2	JASP					Hutchison Group jaspilite
SHR023	70	72	2	JASP	schist				Hutchison Group jaspilite + jaspilite schist + minor chlorite- altered biotite schist

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SHR023	72	74	2	JASP					Hutchison Group	jaspilite
SHR023	74	76	2	JASP	MTS				Hutchison Group	jaspilite + minor magnetite-silica rock
SHR023	76	78	2	JASP	MTS	?AMPH			Hutchison Group	jaspilite + minor magnetite-silica rock + trace ?amphibolite
SHR023	78	80	2	JASP	MTS				Hutchison Group	jaspilite + minor magnetite-silica rock
SHR023	80	82	2	?AMPH	JASP	MT	biotite/?serpentinite	DOL	Hutchison Group	schistose ?amphibolite (strongly altered by biotite & ?serpentine, and containing minor magnetite & ?graphite) + jaspilite + minor dolomite & granite. Possibly a shear zone
SHR023	82	84	2	JASP					Hutchison Group	jaspilite
SHR023	84	86	2	JASP	BIF	MT			Hutchison Group	jaspilite + magnetite BIF
SHR023	86	88	2	JASP	MTS	MT			Hutchison Group	jaspilite + magnetite-silica rock
SHR023	88	90	2	JASP	MTS	MT		pyrite	Hutchison Group	jaspilite + magnetite-silica rock + minor magnetite + trace pyrite
SHR023	90	92	2	MTS/JASP	MTO	MT			Hutchison Group	magnetite-silica rock / jaspilite + minor magnetite
SHR023	92	94	2	JASP		MT			Hutchison Group	jaspilite + minor magnetite
SHR023	94	96	2	AMPH	JASP				Hutchison Group	amphibolite + minor jaspilite
SHR023	96	98	2	AMPH	CHRT	MT			Hutchison Group	amphibolite + minor chert & magnetite
SHR023	98	100	2	CHRT	JASP				Hutchison Group	chert + jaspilite
SHR023	100	102	2	AMPH	MTS	MT			Hutchison Group	amphibolite + magnetite granite
SHR023	102	104	2	AMPH	MTS/JASP	MT			Hutchison Group	amphibolite + magnetite granite / jaspilite
SHR023	104	106	2	JASP	MTO/MTS	MT			Hutchison Group	jaspilite + magnetite + magnetite-silica rock
SHR023	106	108	2	JASP	MTO/AMPH	MT			Hutchison	jaspilite + magnetite +

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									Group	amphibolite
SHR023	108	110	2	MTS	JASP	MT		pyrite	Hutchison Group	magnetite-silica rock (containing minor pyrite) & jaspilite + minor magnetite
SHR023	110	112	2	MTS	JASP	MT		pyrite	Hutchison Group	magnetite-silica rock (containing minor pyrite & pyrite veinlets) + minor jaspilite & magnetite
SHR023	112	114	2	MTS	JASP	MT		pyrite	Hutchison Group	magnetite-silica rock (containing minor pyrite) & jaspilite + minor magnetite
SHR023	114	116	2	MTS/MTO	JASP	MT		pyrite	Hutchison Group	magnetite-silica rock (containing minor pyrite) & jaspilite & magnetite
SHR023	116	118	2	MTS	JASP	MT		pyrite	Hutchison Group	magnetite-silica rock (containing minor pyrite) & jaspilite + minor magnetite
SHR023	118	120	2	MTS	JASP	MT		pyrite	Hutchison Group	magnetite-silica rock (containing minor pyrite) & jaspilite + minor magnetite
SHR023	120	122	2	JASP	GRN/MTS	MT			Hutchison Group	jaspilite + magnetite granite / magnetite-silica rock
SHR023	122	124	2	JASP	GRN/MTS	MT			Hutchison Group	jaspilite + minor magnetite granite / magnetite-silica rock
SHR023	124	126	2	JASP	MTS	MT			Hutchison Group	jaspilite + minor magnetite-silica rock
SHR023	126	128	2	JASP	MTS	MT			Hutchison Group	jaspilite + magnetite-silica rock
SHR023	128	130	2	JASP	MTS	MT			Hutchison Group	jaspilite + minor magnetite-silica rock
SHR023	130	132	2	JASP	MTS	MT			Hutchison Group	jaspilite + minor magnetite-silica rock + trace ?amphibolite END OF HOLE 132m
SHR025	0	2	2	SND	CLY	CCR				red/brown sand & clay + nodular calcrete
SHR025	2	4	2	SND	CLY	CCR	limonite			red sand & clay + nodular calcrete & nodular limonite
SHR025	4	6	2	SND	CLY	CCR	limonite			red/white sands &

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									clays + minor nodular calcrete & nodular limonite
SHR025	6	8	2	SND	CLY		limonite	silica	white & red sands & clay +limonite-stained silica
SHR025	8	10	2	SND				silica	white sand + silica
SHR025	10	12	2	SND	CLY		limonite	silica	red, white & pink sands & clays + limonite-stained silica
SHR025	12	14	2	SND	CLY			silica	white & pink sands & clays + silica
SHR025	14	16	2	SND	CLY			silica	white & pink sands & clays + silica
SHR025	16	18	2	CLY	SND			silica	yellow-brown clays & sands + limonite-stained silica
SHR025	18	20	2	CLY	SND				yellow-brown clays & sands + limonite-stained silica
SHR025	20	22	2	CLY	SND				yellow-brown clays & sands + limonite-stained silica
SHR025	22	24	2	CLY	silica				yellow-brown clays + limonite-stained silica + limonite
SHR025	24	26	2	CLY	silica				yellow-brown clays + limonite-stained silica + limonite
SHR025	26	28	2	CLY	silica/?JASP				yellow-brown clays + limonite-stained silica + weathered ?jaspilite
SHR025	28	30	2	CLY	silica/?JASP				yellow-brown clays + limonite-stained silica + weathered ?jaspilite
SHR025	30	32	2	CLY	silica				white & yellow clays + silica
SHR025	32	34	2	CLY	silica				yellow-brown & (minor) olive clays + limonite-stained silica
SHR025	34	36	2	CLY	?schist/dolerite				olive green clay + ?schist + minor dolerite
SHR025	36	38	2	CLY	dolerite				olive green clay + dolerite. Quartz in dolerite is flattened or elongated.
SHR025	38	40	2	CLY	dolerite				olive green clay +

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									dolerite
SHR025	40	42	2	CLY	dolerite				olive green clay + dolerite. Quartz in dolerite is flattened or elongated.
SHR025	42	44	2	dolerite	CLY				dolerite + minor olive green clay
SHR025	44	46	2	dolerite					dolerite
SHR025	46	48	2	dolerite		?serpentinite			dolerite + minor ?serpentinite alteration
SHR025	48	50	2	dolerite	QZT				dolerite + minor quartzite
SHR025	50	52	2	dolerite	QZT				dolerite + minor quartzite
SHR025	52	54	2	dolerite/AMPH					dolerite + amphibolite
SHR025	54	56	2	dolerite					dolerite
SHR025	56	58	2	dolerite					dolerite
SHR025	58	60	2	dolerite		pyrite	quartz		dolerite + minor pyrite & quartz veinlets
SHR025	60	62	2	dolerite		pyrite			dolerite + minor pyrite
SHR025	62	64	2	dolerite		pyrite			dolerite + minor pyrite
SHR025	64	66	2	dolerite		pyrite			dolerite + minor pyrite
SHR025	66	68	2	dolerite	quartz vein	pyrite	quartz		dolerite + vein quartz + minor pyrite (in dolerite only)
SHR025	68	70	2	dolerite		pyrite			dolerite + trace pyrite
SHR025	70	72	2	dolerite		pyrite			dolerite + trace pyrite
SHR025	72	74	2	dolerite					dolerite
SHR025	74	76	2	dolerite			MT		dolerite + trace magnetite
SHR025	76	78	2	dolerite			MT		dolerite + trace magnetite
SHR025	78	80	2	dolerite			MT		dolerite + trace magnetite
SHR025	80	82	2	dolerite			MT		dolerite + trace magnetite
SHR025	82	84	2	dolerite			MT		dolerite + trace magnetite
SHR025	84	86	2	dolerite			MT		dolerite + trace magnetite. Quartz in dolerite is flattened or elongated.
SHR025	86	88	2	dolerite		pyrite	MT		dolerite + trace pyrite & magnetite. Quartz in dolerite is flattened or elongated.

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SHR025	88	90	2	dolerite		pyrite	MT	calcite/?dolomite	dolerite + minor veinlets of pyrite+calcite+?dolomite + trace magnetite. Quartz in dolerite is flattened or elongated.
SHR025	90	92	2	dolerite		pyrite	MT		dolerite + trace pyrite & magnetite.
SHR025	92	94	2	dolerite		pyrite	MT		dolerite + trace pyrite & magnetite.
SHR025	94	96	2	dolerite		pyrite	MT	calcite	dolerite + minor pyrite & calcite + trace magnetite
SHR025	96	98	2	dolerite		pyrite	MT		dolerite + trace pyrite & magnetite.
SHR025	98	100	2	dolerite	CHRT/JASP	pyrite	MT		dolerite + finely laminated chert/jaspilite + minor pyrite + trace magnetite. Some pyrite forms laminae in the chert
SHR025	100	102	2	dolerite	CHRT	pyrite	MT		dolerite + minor chert + trace pyrite & magnetite.
SHR025	102	104	2	dolerite			MT		dolerite + trace magnetite
SHR025	104	106	2	dolerite			MT		dolerite + trace magnetite
SHR025	106	108	2	dolerite	quartz vein		MT		dolerite + minor quartz vein + trace magnetite end of hole 108m

Appendix 3

Lithology Codes

LITH CODE	Lithology
AL	Alluvium
AMPH	amphibolite – after mafic igneous dyke/flow/sill
BIF	banded iron formation – used here in much the same sense as jaspilite i.e. hard banded quartz & iron oxide often with subordinate fine amphibole
BIFOX	oxidised/weathered iron formation, siliceous possibly from weathering
BNDAMPH	banded amphibolite – MAYBE SCHIST amphibole rock (actinolite) with feldspathic or quartzofeldspathic bands (eg in Bald Hill drilling)
BRX	breccia
CAAR	calc-arenite
CALC	calcite rock
CALCR	calcrete
CALCSIL	calcsilicate
CALDIOMT	calcite diopside magnetite rock – salt and pepper texture
CARB	carbonate
CHTBIF	chert banded iron formation
CLY	clay
CONG	conglomerate
DMT	diamictite – younger glacial sediment in Poldia Trough
DOLO	dolomite
DOLOVN	dolomite vein
FLT	fault or fault zone
FRAC	Fractured zone
GNS	gneiss
GRAN	granite
GRANO	granodiorite
GRIT	grit
HEM	hematite dominated rock i.e ore or potential ore
HEMCARB	hematite-carbonate rock – associated with high grade hematite at Iron Duke

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IRST	iron stone – surficial
JASP	Jaspilite. Weathered siliceous jaspilite
LAT	laterite
LBIF	“leached BIF” as developed in particular at intersection of structures at Iron Duchess where it is interpreted to be the result of argillic to advanced argillic alteration from downward moving meteoric water - inferred pyrite-originated acid.
MAF	non descript mafic rock
MAFSCH	mafic schist
MDST	mudstone
METVOL	metavolcanic
MSED	metasediment
MT	magnetite rock (nominally greater than 50% magnetite.
MTCARB	dominantly carbonate rock with appreciable magnetite – ore type at Iron Magnet
MTS	magnetite silica rock
NOREC	CORE LOSS – NO CORE RECOVERED
PEG	pegmatite
PIS	pisolite/pisolitic ironstone – surficial
QTZOFELD	quartzofeldspathic rock
QTZT	quartzite
QTZVN	quartz vein
QTZVNBX	quartz vein breccia
SAP	saprolite clay with rock texture
SCH	schist
SLTST	siltstone
SND	sand
SOIL	soil
SST	sandstone
STKWK	Quartz stockwork veined zone

Appendix 4

Drillhole Assays

DrillHole ID	Depth From	Depth To	Interval (m)	Al2O3	CaO	Fe	MgO	P	SiO2	LOI 1000
SHR015	64	66	2	14.85	6.42	7.75	3.72	0.077	54.1	2.06
SHR015	64	66	2	14.9	6.29	7.77	3.61	0.075	54.4	1.94
SHR015	66	68	2	14.9	3.34	6.18	2.33	0.056	60.1	2.23
SHR015	68	70	2	13.8	7.79	9.85	5.11	0.087	49.9	2.24
SHR015	70	72	2	13.65	9.07	9.63	5.31	0.085	49.6	1.86
SHR015	72	73	1	13.35	>10.0	9.67	5.89	0.078	48	1.67
SHR015	73	74	1	13.15	>10.0	9.89	5.84	0.078	47.6	1.07
SHR015	74	75	1	13.5	>10.0	8.98	5.39	0.075	49.4	1.43
SHR015	75	76	1	13.8	8.45	7.74	4.44	0.076	53.2	1.79
SHR015	76	78	2	13.85	7.4	8.01	5.06	0.085	52.5	2.41
SHR015	78	80	2	15.55	4.08	4.92	2.8	0.169	60.4	1.79
SHR015	80	82	2	15.25	4.33	3.01	1.58	0.097	65.6	1.18
SHR015	82	84	2	14.75	2.26	1.54	0.86	0.042	70.5	1
SHR015	84	86	2	14.85	4.26	4.51	3.14	0.186	60.8	1.77
SHR015	86	87	1	14.2	0.81	1.16	0.87	0.023	>70	0.97
SHR015	87	88	1	15.05	2.79	3.26	2.19	0.112	64.4	2.14
SHR015	88	89	1	15.55	5.38	4.74	2.91	0.168	57.5	3.08
SHR015	89	90	1	13.7	6.87	6.92	4.65	0.18	54.4	2.43
SHR015	90	94	4	14.2	6.19	7.67	6.29	0.093	52.3	2.6
SHR015	94	96	2	15.05	3.86	4.82	4.19	0.138	59.3	2.42
SHR015	96	98	2	13	>10.0	9.87	5.49	0.096	48.4	1.55
SHR015	98	100	2	14.3	7.75	6.26	4.57	0.15	54.5	1.68
SHR015	100	102	2	11.15	>10.0	5.77	9.48	0.232	50.1	1.5
SHR015	102	104	2	9.56	>10.0	6.3	>10.0	0.281	47.7	1.5
SHR015	104	106	2	11.85	9.03	4.65	6.95	0.271	55.5	1.84
BLANK				8.12	0.28	0.11	0.35	0.006	>70	1.54

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SHR015	106	108	2	17.15	5.61	4.37	4.19	0.252	55.4	1.76
SHR015	108	109	1	18.55	4.05	5.45	6.8	0.148	50.6	3.13
SHR015	109	110	1	18.65	4.92	5.37	5.48	0.208	51.7	2.25
STANDARD				0.56	1.91	59.7	0.48	0.024	2.22	5.71
SHR015	110	112	2	18.7	5.05	5.35	6.3	0.186	51.2	2.14
SHR015	112	114	2	18.8	3.26	2.93	3.92	0.088	58.2	1.77
SHR015	114	116	2	19.35	3.22	3.29	3.67	0.08	57.7	1.78
SHR015	116	118	2	18.85	3.42	3.59	3.84	0.102	57.3	1.7
SHR015	118	120	2	17.5	3.59	3.34	5.74	0.07	58	1.97
SHR015	120	122	2	10.05	5.62	6.22	>10.0	0.03	53.4	3.09
SHR015	122	124	2	13.7	5.53	4.73	4.61	0.08	61.1	1.43
SHR015	124	126	2	14.5	3.99	2.35	2.58	0.044	67.4	1.12
SHR015	126	128	2	14.75	3.33	1.81	1.65	0.039	68.8	1.37
SHR015	128	130	2	15.4	3.67	1.75	1.44	0.041	68.2	1.03
SHR015	130	132	2	15.45	5.89	3.86	2.55	0.102	61.8	1.05
SHR015	132	134	2	15.55	6.7	4.74	2.9	0.136	59.1	1.15
SHR015	134	136	2	15.65	6.81	4.24	2.6	0.146	59.8	0.86
SHR015	136	138	2	14.65	4.23	2.71	3.41	0.062	65.5	1.37
SHR015	138	140	2	14.5	3.22	2.06	2.56	0.036	68.5	1.33
SHR015	140	142	2	14.9	2.97	2.07	1.78	0.062	69	0.8
SHR015	142	144	2	15.3	2.51	1.38	1.11	0.032	>70	0.4
SHR015	144	146	2	19.3	4.02	2.12	2.15	0.043	60.7	1.08
SHR015	146	148	2	19.6	4.81	2.64	1.86	0.038	59.6	0.94
SHR015	148	150	2	19.85	4.77	2.18	1.56	0.039	60.4	0.8
SHR015	150	152	2	19.95	4.21	2.1	1.53	0.038	60.7	0.92
SHR015	152	154	2	19.7	3.76	2.45	1.84	0.048	60.8	0.62
SHR015	152	154	2	19.75	3.78	2.23	1.94	0.044	60.7	0.84
SHR015	154	156	2	19.75	4.19	2.2	1.97	0.028	60.8	0.64
SHR015	156	158	2	19.7	3.89	2.46	2.2	0.044	59.8	1.21
SHR015	158	160	2	15.95	2.39	1.14	1.24	0.034	69.9	0.64
SHR015	160	162	2	15.2	3.06	1.64	1.32	0.038	70.3	0.6
SHR015	162	164	2	16.2	3.02	2.26	1.62	0.044	67.2	0.62
SHR015	164	166	2	19.35	3.66	2.45	2.36	0.042	60.7	0.92
STANDARD				7.79	1.68	53.2	0.3	0.084	2.75	9.95
SHR015	166	168	2	19.65	3.53	3	3.2	0.057	58.5	1.32

STONY HILL EL 3287 PACE REPORT

SHR015	168	170	2	18.8	3.59	2.82	2.95	0.071	60.7	0.92
SHR015	170	171	1	19.1	3.71	2.77	2.93	0.06	59.5	1.29
SHR015	171	172	1	18.05	3.59	2.21	2.2	0.045	63	1.16
SHR015	172	174	2	15.6	2.55	1.91	1.28	0.041	69.3	0.74
SHR015	174	176	2	19.7	3	2.07	2.69	0.042	60.7	0.95
SHR015	176	178	2	18.65	2.83	1.42	1.96	0.036	64.3	0.66
SHR015	178	180	2	19.35	3.18	2.62	2.29	0.037	61	0.63

DrillHole ID	Depth From	Depth To	Interval (m)	Al2O3	CaO	Fe	MgO	P	SiO2	LOI 1000
SHR019	100	102	2	15.65	2.82	2.07	1.64	0.065	66.9	1.55
SHR019	102	104	2	15.4	3.73	2.15	1.74	0.064	66.7	1.19
SHR019	104	106	2	16.05	4.54	3.14	2	0.099	63.8	1.12
SHR019	106	108	2	15.5	4.09	2.1	1.64	0.063	67.5	0.87
SHR019	108	110	2	15.6	3.77	2.38	1.89	0.082	66.6	0.85
SHR019	110	112	2	15.3	3.7	2.42	1.82	0.06	67.4	0.66
SHR019	112	114	2	9.79	9.09	6.1	4.92	0.02	52.8	3.6
SHR019	114	116	2	0.27	>10.0	8.13	>10.0	0.001	10.8	30.7
SHR019	116	118	2	0.91	>10.0	12.5	>10.0	0.006	21.5	14.25
SHR019	118	120	2	0.49	7.74	18.1	6.75	0.016	48.8	0.62
SHR019	120	122	2	0.33	4.1	22.5	4.08	0.013	51.5	0.61
SHR019	122	124	2	0.98	2.55	20.2	3.98	0.013	60.1	0.3
SHR019	124	126	2	0.15	3.31	24.4	4.41	0.016	57	-0.42
SHR019	126	128	2	0.18	2.83	25.7	3.71	0.016	55.3	-0.6
SHR019	128	130	2	0.18	1.36	11.7	2.63	0.009	>70	0.21
SHR019	130	132	2	0.22	2.04	19.8	3.68	0.014	64	-0.04
SHR019	132	134	2	0.18	1.68	33.2	2.82	0.03	48.8	-1.23
SHR019	134	136	2	2.71	2.31	25	3.38	0.026	51.2	0.13
SHR019	136	138	2	4.76	>10.0	12.4	>10.0	0.035	40	7.33
SHR019	138	140	2	3.13	4.81	25	5.88	0.056	45.6	0.01
SHR019	140	142	2	3.95	5.8	24.3	6.48	0.052	42.3	0.62
SHR019	142	144	2	3.94	9.6	18.65	>10.0	0.059	45.1	0.77
SHR019	144	146	2	3.55	6.64	22.7	7.35	0.067	44.3	0.94

STONY HILL EL 3287 PACE REPORT

SHR019	146	148	2	1.13	>10.0	11.05	>10.0	0.008	19.8	21.5
SHR019	148	150	2	0.34	>10.0	10.25	>10.0	0.003	13.75	27.5
SHR019	150	152	2	1.12	>10.0	9.76	>10.0	0.004	10.6	29.2
SHR019	152	154	2	3.03	>10.0	15.05	>10.0	0.006	21.3	16.85
SHR019	154	156	2	0.61	>10.0	11.4	>10.0	0.004	20.1	21.5
SHR019	156	158	2	0.57	>10.0	18.25	>10.0	0.003	29.2	9.37
SHR019	158	160	2	0.19	>10.0	7.74	>10.0	0.001	5.15	36.5
SHR019	160	162	2	0.2	>10.0	6.48	>10.0	<0.001	1.82	40.4
SHR019	162	164	2	0.16	>10.0	9.19	>10.0	0.002	8.78	31.8
SHR019	164	165	1	0.12	>10.0	6.2	>10.0	0.004	4.05	38.6
SHR019	165	166	1	0.09	>10.0	6.28	>10.0	<0.001	1.72	41.4
SHR019	166	168	2	1.84	>10.0	8.71	>10.0	0.006	16.8	27.4
SHR019	168	170	2	0.57	>10.0	15.15	>10.0	0.003	26.9	12.15
SHR019	170	172	2	1.07	>10.0	10.15	>10.0	0.012	23.5	18.2
SHR019	172	174	2	0.22	>10.0	11.7	>10.0	0.039	40	2.56
SHR019	174	176	2	2.23	>10.0	7.11	>10.0	0.018	25.8	14.7
SHR019	176	178	2	1.28	>10.0	9.68	>10.0	0.033	25.8	15.55
SHR019	178	180	2	1.76	>10.0	9.47	>10.0	0.035	34.6	8.97

Pontifex Report #9319

Pontifex & Associates Pty Ltd

MINERALOGY – PETROLOGY · SECTION PREPARATION

A.B.N. 25 007 521 084

26 Kensington Rd, Rose Park
South Australia 5067
Tel: +61 8 8332 6744
Fax: +61 8 8332 5062

PO Box 91
Kent Town SA 5071
AUSTRALIA

Email:
ian@pontifexpetrographics.com.au
Website:
www.pontifexpetrographics.com.au

MINERALOGICAL REPORT No. 9319
by Alan C. Purvis, PhD.

May 20th, 2008

TO :

Tony Hayball
Centrex Metals Ltd
Level 3, 100 Pirie Street
ADELAIDE SA 5000

WORK REQUESTED :

Polished thin section preparation, description and report. XRD of clay fraction of four RC samples.

PONTIFEX & ASSOCIATES PTY. LTD.

14. SUMMARY COMMENTS

The samples received for this report and the mineralogical petrographic analyses requested are:

		Washed (clean chips)	Unwashed (clay fraction)
RC chips	SHR001, 41-42m	PTS + petrology	XRD
RC chips	SHR001, 73-74m	PTS + petrology	XRD
RC chips	SHR002, 51-52m	PTS + petrology	XRD
RC chips	SHR002, 71-72m	PTS + petrology	XRD

The XRD analyses of the clay fractions were subcontracted to AMDEL with the results presented on the next page. Selected photomicrographs are integrated with the individual descriptions as requested.

Chips in SHR001 and SHR002 include quartz plagioclase-rich diorite to (gneissic) tonalite, also amphibolite or hornblende-rich chips, with biotite partly altered to chlorite. Veins variously contain calcite, adularia, epidote, and prehnite, with very minor secondary K-spar in some quartzofeldspathic chips. It should be noted that abundant albite in the (partly gneissic) tonalite in SHR001, 73-74: SHR002, 51-22: and lesser in the quartz diorite to tonalite chips in SHR002, 71-72: commonly have a diffuse mottled reddish "staining" by hematite dust. This may represent incipient (hydrothermal) oxidation. Sparse actual crystalline hematite is interstitial in SHR002, 51-52m.

The sample from SHR001, 73-74m, shows amphibolite cutting tonalite. There are no composite chips in SHR002, 71-72m, but single chips are hornblende-rich. The quartzofeldspathic samples of SHR001, 41-42m and SHR002, 51-52m include alteration of albite-sericite and clays or chlorite.

MINERALOGY OF SHR “CLAY” SAMPLES (BY AMDEL)

1. INTRODUCTION

Samples were received from Ian Pontifex of Pontifex & Associates with a request for determination of their mineralogy. The samples were from Order No: 98

2. PROCEDURE

The samples were pulverized then analysed by X-ray diffraction to identify the minerals present.

3. RESULTS

The semi-quantitative mineralogy of the samples follows. The amphibole is a Ca-group monoclinic amphibole e.g. hornblende

Mineral	SHR001 41-42	SHR001 73-74	SHR002 51-52	SHR002 71-72
Plagioclase	D	D	D	CD
K-feldspar		A	Tr	Tr
Quartz	A	SD	A-SD	A
Amphibole		A		CD
Chlorite		A		
Smectite	SD			
Illite/muscovite	Tr-A	Tr-A	A	
Biotite				A
Vermiculite			Tr	
Hematite	Tr			
Calcite		Tr		

Semiquantitative Abbreviations

- D = Dominant. Used for the component apparently most abundant, regardless of its probable percentage level.
- CD = Co-dominant. Used for two (or more) predominating components, both or all of which are judged to be present, in roughly equal amounts.
- SD = Sub-dominant. The next most abundant component(s) providing its percentage level is judged above about 20.
- A = Accessory. Components judged to be present between the levels of roughly 5 and 20%.
- Tr = Trace. Components judged to be below about 5%.

15. INDIVIDUAL DESCRIPTIONS

SHR001, 41-42

Weakly sericite-clay-altered inequigranular quartz diorite with very minor hematite.

This sample is composed of chips of inequigranular quartz diorite with weakly sericite-clouded reddish plagioclase to 10mm or more in grainsize as well as possibly 7-8% mostly fine-grained interstitial quartz and small patches of phyllosilicate probably derived from micas. The X-ray diffraction analysis indicates smectite and muscovite or illite. Minor opaque oxide to 0.5mm in grainsize is disseminated and has been oxidised to hematite. One chip represents brecciated quartz diorite with interstitial clay that may be amorphous. Small patches of opal are present in interstitial areas.

X-ray diffraction analysis: plagioclase (dominant); smectite (subdominant); quartz (abundant), illite/microcline (trace to abundant) and hematite (trace).

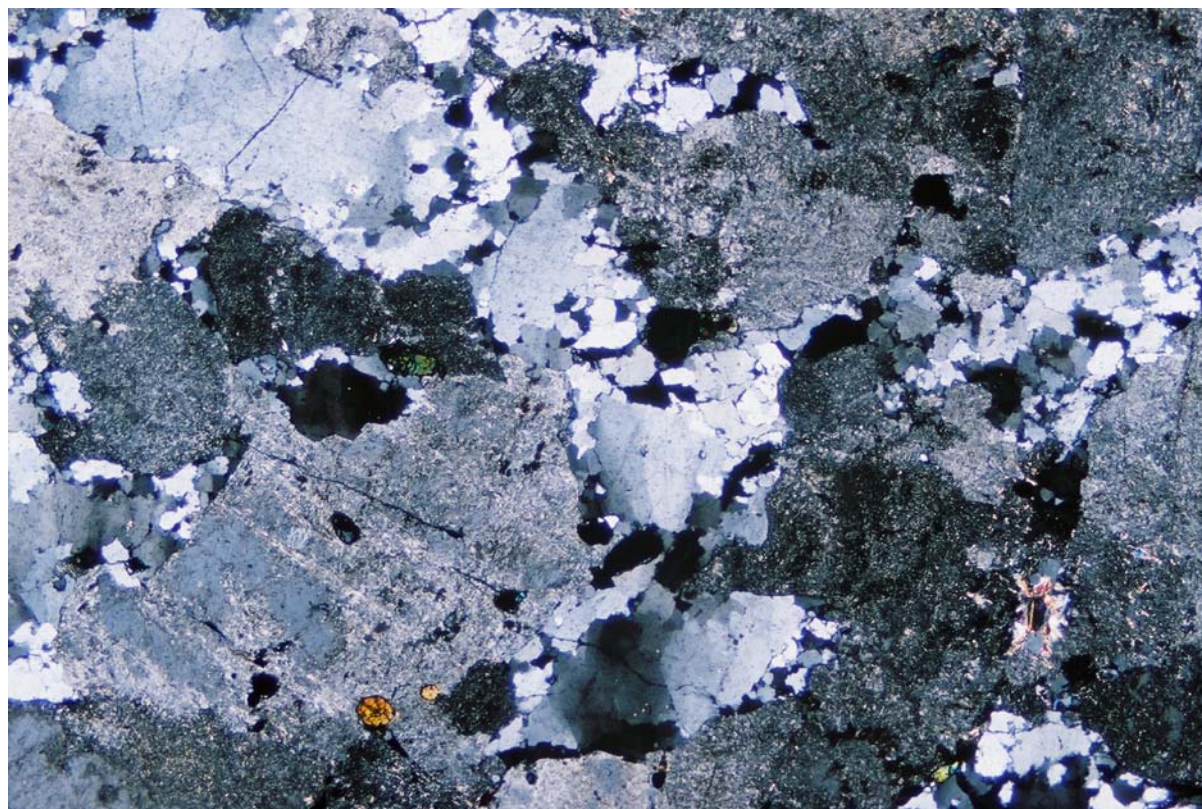


Fig 4

SHR001, 41-42m

0.45 mm

TS. Xnic. Weakly altered quartz diorite with sparse sericite (lower right) and small yellow crystals of zircon (bottom left).

SHR001, 73-74m

- 1. Simple chips of tonalite with minor muscovite, chlorite, epidote, apatite and zircon.**
- 2. Composite chips of fine-grained schistose amphibolite with sericite-clouded plagioclase, K-spar and titanite. Cut by calcite-adularia veins.**

There are two lithologies in this thin section: tonalite with 25% quartz, 74% albite $\pm$ sericite-altered plagioclase and 1% mica, clays and zircon, and fine-grained schistose amphibolite. The plagioclase in the tonalite is finer-grained than that in the previous sample, mostly less than 4mm in grain size, with interstitial anhedral quartz, partly recrystallised. One chip also has recrystallised plagioclase. Minor components include muscovite, chlorite, epidote, apatite and carbonate, with carbonate in fractures with minor muscovite. One grain of zircon is 0.4mm in diameter. One chip has tonalite in contact with a fine-grained quartz-plagioclase-chlorite aggregate and one has an intrusive contact with amphibolite cutting across the fabric of the tonalite.

The amphibolite chips have sparse larger hornblende grains and crystals to 0.5mm long but are mostly fine-grained with schistose hornblende, sericite-clouded plagioclase, possible K-spar, and accessory titanite. Several chips contain veins with calcite and adularia. Hornblende and feldspar are subequal in abundance in the amphibolite.

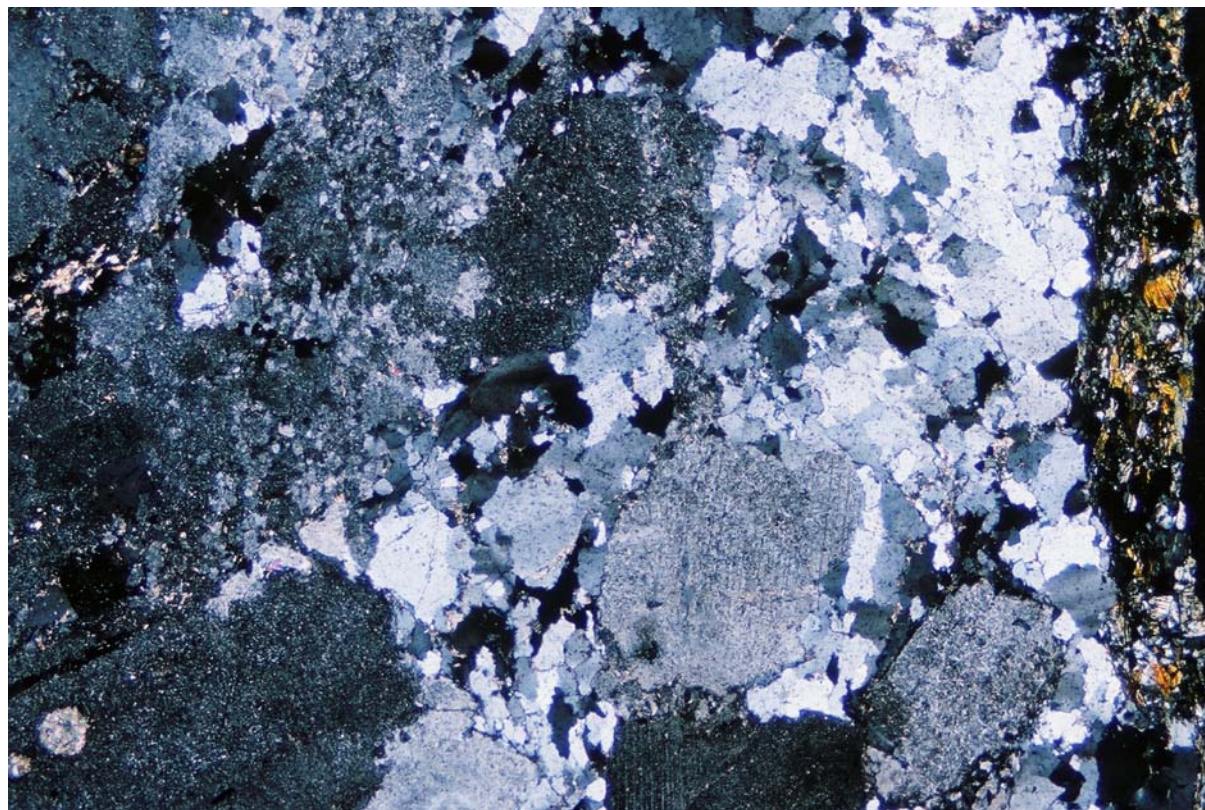


Fig 5

SHR001, 73-74m

0.45 mm

TS. Xnic. Weakly altered tonalite with patchy quartz and dusty subhedral plagioclase. Minor coloured fine amphibole as part of a vein along the right-hand side, crosscutting the tonalite.

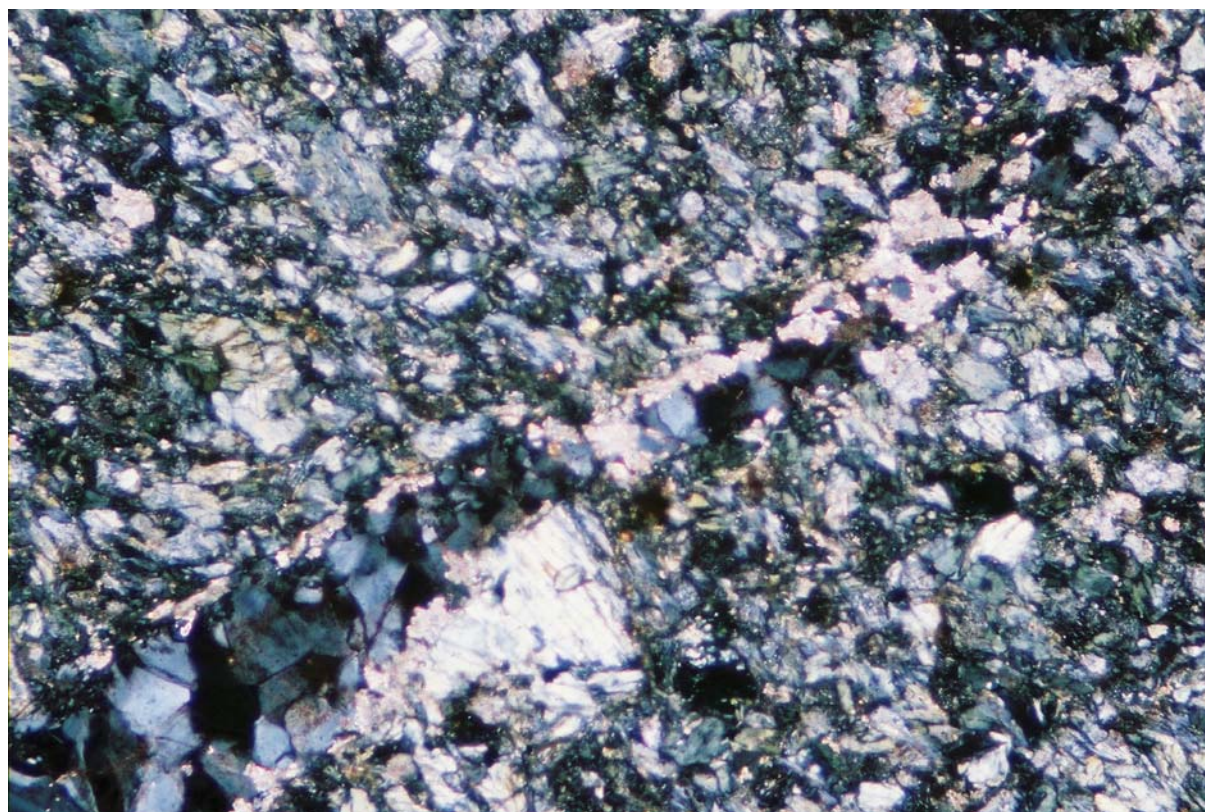


Fig 6

SHR001, 73-74m

0.09 mm

TS. Xnic. Massive fine grained schistose amphibolite, with a veinlet of grey crystalline adularia and fine brighter pinkish carbonate.

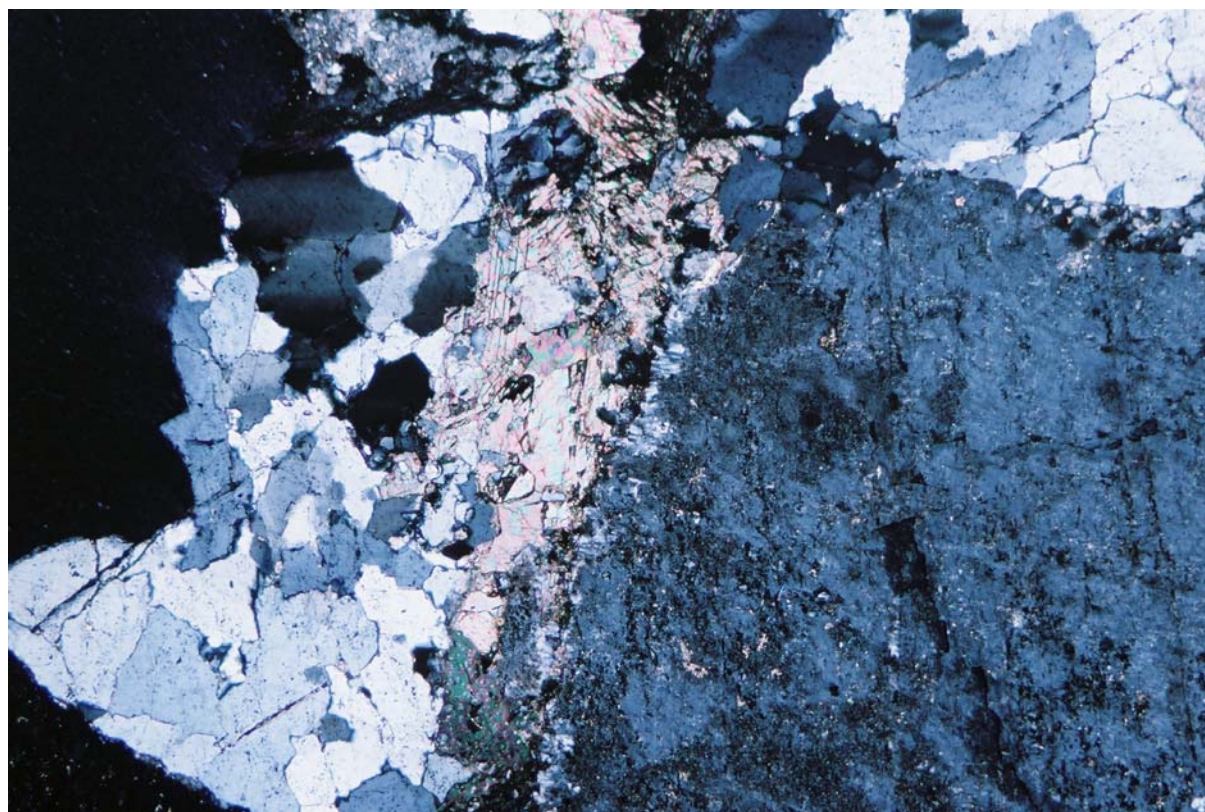


Fig 7

SHR001, 73-74m

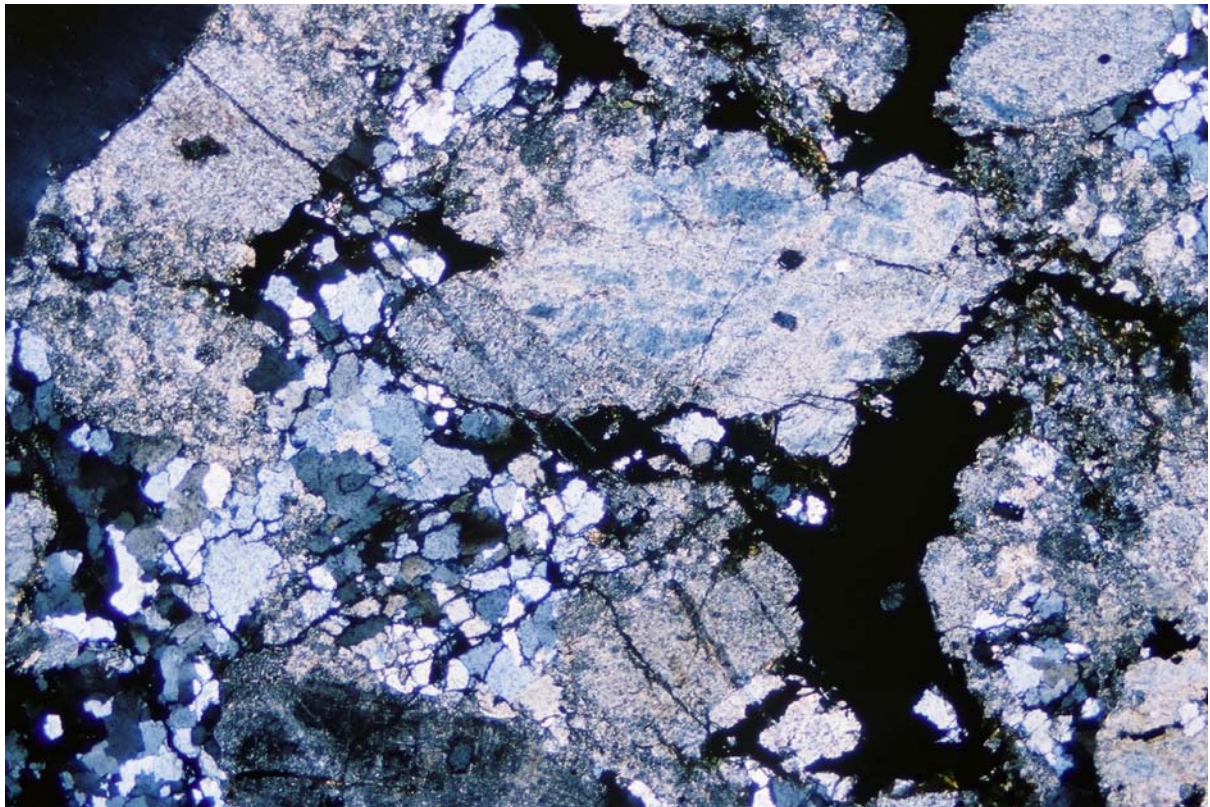
0.45 mm

TS. Xnic. Coarse plagioclase crystals and a patch of quartz mosaic forming a tonalite (right-hand side) with a vein containing quartz and pinkish carbonate (left-hand side).

SHR002, 51-52m

Gneissic tonalite with schistose muscovite and altered biotite (vermiculite-chlorite), very minor secondary K-spar and sparse interstitial hematite in local microfractures.

These chips are composed of recrystallised and partly gneissic tonalite with albite-sericite-altered plagioclase to 5mm in grainsize and 25-30% mostly fine-grained recrystallised quartz. Lamellae of biotite seem to define an S-C fabric but are not present in every chip. The biotite has been altered to chlorite and vermiculite and is accompanied by schistose sericite or muscovite and limonite. One chip has sparse lenses of inequigranular but mostly fine-grained K-spar and one has K-spar partly replacing plagioclase.

**Fig 8****SHR002, 51-52m**

0.45 mm

TS. Xnic. Tonalite, fractured inequigranular and partly recrystallised. Minor black opaque hematite in fractures and interstitial.

SHR002, 71-72m

- 1. Quartz-diorite to tonalite, partly gneissic with biotite, chlorite and hornblende as well as rare zircon. Cut by fractures with epidote or prehnite veins.**
- 2. Hornblende-rich chips with biotite, chlorite and rare plagioclase.**

This sample has two main lithologies. One has various proportions of plagioclase, quartz and biotite, and is quartz diorite or tonalite. The other is largely composed of hornblende and biotite or chlorite.

The quartzofeldspathic material is inequigranular and heterogeneous with some chips largely composed of sericite-clouded plagioclase to 3mm in grainsize and others composed of plagioclase and/or quartz, commonly finer-grained, with biotite ± chlorite. One chip is composed of plagioclase-rich augen gneiss with minor quartz, biotite and pale green hornblende. Some chips may contain K-spar, but this is not obvious in thin section. Some of these chips have fractures filled by epidote or possibly Fe-rich prehnite (apparently with a low 2V. Zircon to 0.15mm long occurs in one chip.

The hornblende-rich chips have inequigranular pale brownish green hornblende to 3mm in grainsize commonly rimmed and separated by colourless amphibole. Fresh and chloritised biotite flakes also occur in several chips. Plagioclase is rare and fine-grained, however, in only a very few chips.

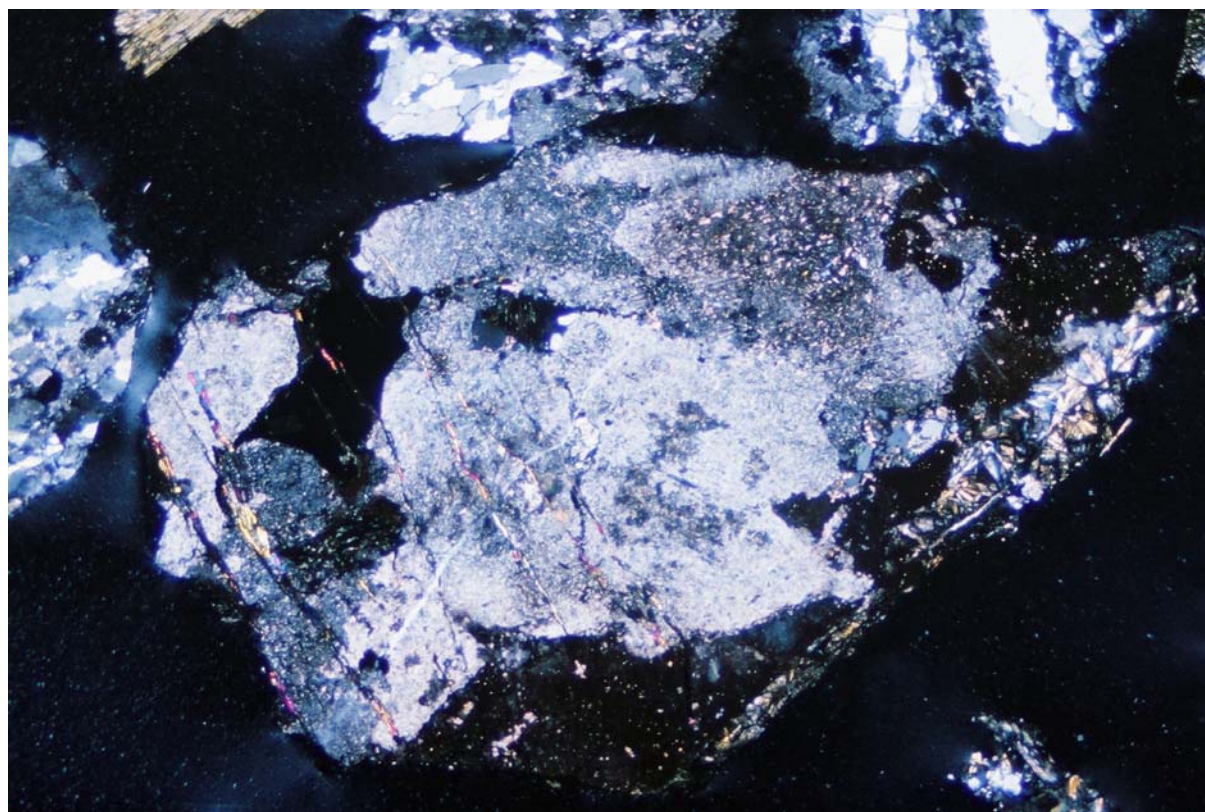


Fig 9

SHR002, 71-72m

0.45 mm

TS. Xnic. Irregular chip of stressed sericite-clouded albitised plagioclase in this tonalite, with hairline fractures variously containing extremely fine albite, coloured epidote and prehnite.

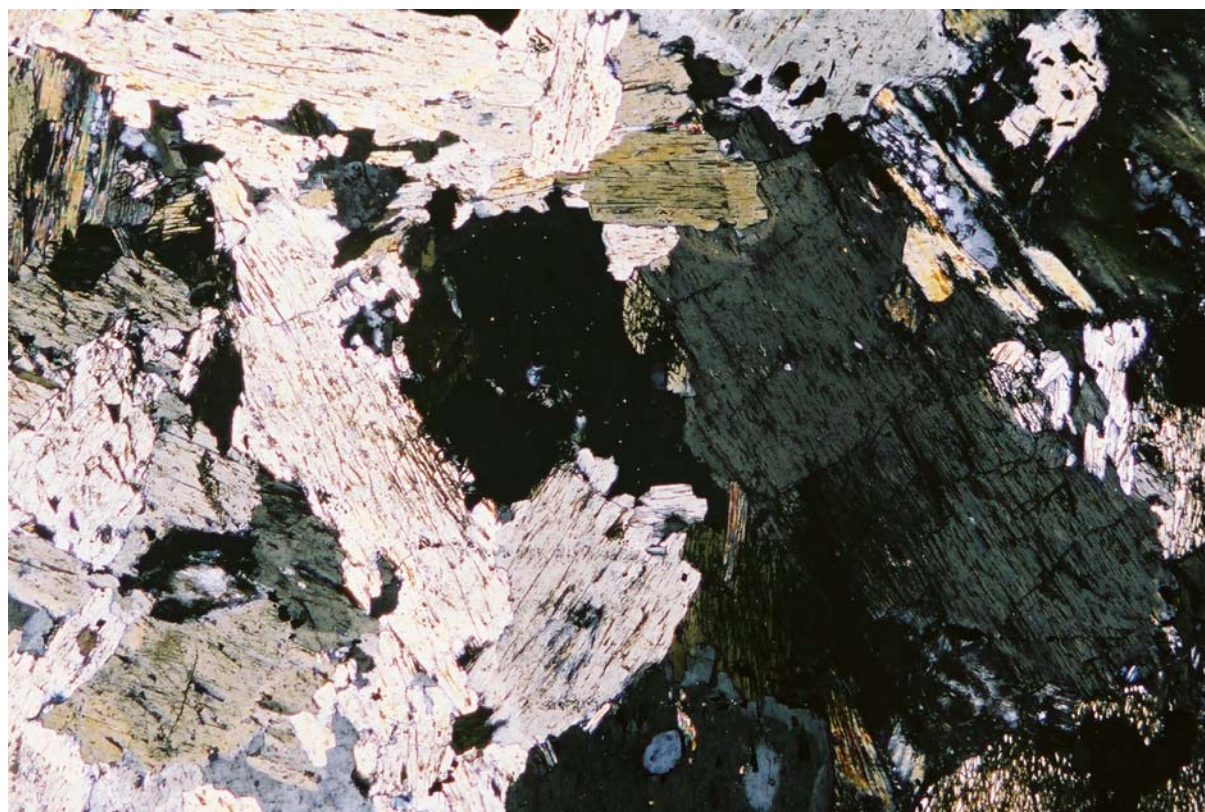


Fig 10

SHR002, 71-72m

0.18 mm

TS. Xnic. Amphibole-rich chip (random pale prisms of hornblende) with quartz parallel to the cleavage of altered biotite (NE quadrant). Two very small grey grains of apatite on bottom margin of this photo.

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665633 Unit No: Obs No: Permit No:
Permit Holder: Date: 01/05/2008 Time:
Address: Hundred:
Results To: Centrex Metals Limited Section: Lot No:
Address: Level 3, 100 Prie Street
Adelaide. SA 5000
Collected By: Sample Depth From: 55.00 To: M
Remarks: STONY HILL / EL 3287. HOLE#SHR022.
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test EC: 59900
Method: ☐ Airlift / ☐ Bail / Flow / Pump TDS: 41930
Source: Tank / ☐ Well / Dam / River / Spring pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665658 Unit No: Obs No: Permit No:
Permit Holder: Date: 03/04/2008 Time:
Address: Hundred:
Results To: Centrex Metals Limited Section: Lot No:
Address: Level 3, 100 Prie Street
Adelaide. SA 5000
Collected By: Sample Depth From: 18.00 To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR007
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test EC: 72500
Method: ☐ Airlift / ☐ Bail / Flow / Pump TDS: 50750
Source: Tank / ☐ Well / Dam / River / Spring pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665635 Unit No: Obs No: Permit No:
Permit Holder: Date: 15/04/2008 Time:
Address: Hundred:
Results To: Centrex Metals Limited Section: Lot No:
Address: Level 3, 100 Prie Street
Adelaide. SA 5000
Collected By: Sample Depth From: 55.00 To: M
Remarks: STONY HILL / EL 3287. HOLE#SHR014
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test EC: 58000
Method: ☐ Airlift / ☐ Bail / Flow / Pump TDS: 40600
Source: Tank / ☐ Well / Dam / River / Spring pH:

Groundwater Sample

Sample No: 1665636	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 26/03/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 18.00	To: M
Remarks: STONY HILL / EL3287 HOLE#SHR003			
Collected: ☒ Drilling / Final Sample / Monitoring / Pump Test		EC: 76700	
Method: ☒ Airlift / Bail / Flow / Pump		TDS: 53690	
Source: Tank / ☒ Well / Dam / River / Spring		pH:	

Groundwater Sample

Sample No: 1665637	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 08/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 29.00	To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR010			
Collected: ☒ Drilling / Final Sample / Monitoring / Pump Test		EC: 68200	
Method: ☒ Airlift / Bail / Flow / Pump		TDS: 47740	
Source: Tank / ☒ Well / Dam / River / Spring		pH:	

Groundwater Sample

Sample No: 1665638	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 10/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 25.00	To: M
Remarks: STONY HILL / EL3287 HOLE#SHR011			
Collected: ☒ Drilling / Final Sample / Monitoring / Pump Test		EC: 74100	
Method: ☒ Airlift / Bail / Flow / Pump		TDS: 51870	
Source: Tank / ☒ Well / Dam / River / Spring		pH:	

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665639	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 02/05/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 48.00	To: M
Remarks: STONY HILL / EL3287 HOLE#SHR023			
Collected: ☒ Drilling / Final Sample / Monitoring / Pump Test		EC: 55700	
Method: ☒ Airlift / Bail / Flow / Pump		TDS: 38990	
Source: Tank / ☒ Well / Dam / River / Spring		pH:	

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665640	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 11/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 105.00	To: M
Remarks: STONY HILL / EL3287 HOLE#SHR011			
Collected: ☒ Drilling / Final Sample / Monitoring / Pump Test		EC: 72200	
Method: ☒ Airlift / Bail / Flow / Pump		TDS: 50540	
Source: Tank / ☒ Well / Dam / River / Spring		pH:	

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665641	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 23/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 60.00	To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR019			
Collected: ☒ Drilling / Final Sample / Monitoring / Pump Test		EC: 58200	
Method: ☒ Airlift / Bail / Flow / Pump		TDS: 40740	
Source: Tank / ☒ Well / Dam / River / Spring		pH:	

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665642	Unit No:	Obs No:	Permit No:
Permit Holder:			Date: 29/03/2008 Time:
Address:			Hundred:
Results To: Centrex Metals Limited			Section: Lot No:
Address: Level 3, 100 Pirie Street Adelaide. SA 5000			
Collected By:			Sample Depth From: 19.00 To: M
Remarks: STONY HILL / EL3287 HOLE#004			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test			EC: 72300
Method: ☐ Airlift / Bail / Flow / Pump			TDS: 50610
Source: Tank / ☐ Well / Dam / River / Spring			pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665643	Unit No:	Obs No:	Permit No:
Permit Holder:			Date: 01/04/2008 Time:
Address:			Hundred:
Results To: Centrex Metals Limited			Section: Lot No:
Address: Level 3, 100 Pirie Street Adelaide. SA 5000			
Collected By:			Sample Depth From: 21.00 To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR005			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test			EC: 74100
Method: ☐ Airlift / Bail / Flow / Pump			TDS: 51870
Source: Tank / ☐ Well / Dam / River / Spring			pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665644	Unit No:	Obs No:	Permit No:
Permit Holder:			Date: 17/04/2008 Time:
Address:			Hundred:
Results To: Centrex Metals Limited			Section: Lot No:
Address: Level 3, 100 Pirie Street Adelaide. SA 5000			
Collected By:			Sample Depth From: 73.00 To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR015			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test			EC: 63800
Method: ☐ Airlift / Bail / Flow / Pump			TDS: 44660
Source: Tank / ☐ Well / Dam / River / Spring			pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665645	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 18/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:	Sample Depth From: 53.00 To: M		
Remarks: STONY HILL / EL 3287 HOLE#SHR016			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test	EC: 60500		
Method: ☐ Airlift / Bail / Flow / Pump	TDS: 42350		
Source: Tank / ☐ Well / Dam / River / Spring	pH:		

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665646	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 02/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:	Sample Depth From: 22.00 To: M		
Remarks: STONY HILL / EL 3287 HOLE#SHR006			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test	EC: 77100		
Method: ☐ Airlift / Bail / Flow / Pump	TDS: 53970		
Source: Tank / ☐ Well / Dam / River / Spring	pH:		

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665647	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 13/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:	Sample Depth From: 40.00 To: M		
Remarks: STONY HILL / EL 3287 HOLE#SHR012			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test	EC: 70700		
Method: ☐ Airlift / Bail / Flow / Pump	TDS: 49490		
Source: Tank / ☐ Well / Dam / River / Spring	pH:		

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665648 Unit No: Obs No: Permit No:
Permit Holder: Date: 25/04/2008 Time:
Address: Hundred:
Results To: Centrex Metals Limited Section: Lot No:
Address: Level 3, 100 Prie Street
Adelaide. SA 5000
Collected By: Sample Depth From: 116.00 To: M
Remarks: STONY HILL / EL3287 HOLE#SHR020
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test EC: 56700
Method: ☐ Airlift / Bail / Flow / Pump TDS: 39690
Source: Tank / ☐ Well / Dam / River / Spring pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665649 Unit No: Obs No: Permit No:
Permit Holder: Date: 24/04/2008 Time:
Address: Hundred:
Results To: Centrex Metals Limited Section: Lot No:
Address: Level 3, 100 Prie Street
Adelaide. SA 5000
Collected By: Sample Depth From: 54.00 To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR020
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test EC: 58800
Method: ☐ Airlift / Bail / Flow / Pump TDS: 41160
Source: Tank / ☐ Well / Dam / River / Spring pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665650 Unit No: Obs No: Permit No:
Permit Holder: Date: 20/04/2008 Time:
Address: Hundred:
Results To: Centrex Metals Limited Section: Lot No:
Address: Level 3, 100 Prie Street
Adelaide. SA 5000
Collected By: Sample Depth From: 45.00 To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR017
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test EC: 58700
Method: ☐ Airlift / Bail / Flow / Pump TDS: 41090
Source: Tank / ☐ Well / Dam / River / Spring pH:

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665651	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 28/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Pirie Street Adelaide. SA 5000			
Collected By:	Sample Depth From: 49.00 To: M		
Remarks: STONY HILL / EL 3287 HOLE#SHR021			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test	EC: 56600		
Method: ☐ Airlift / Bail / Flow / Pump	TDS: 39620		
Source: Tank / ☐ Well / Dam / River / Spring	pH:		

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665652	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 12/03/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Pirie Street Adelaide. SA 5000			
Collected By:	Sample Depth From: 14.00 To: M		
Remarks: STONY HILL / EL 3287 HOLE#SHR001			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test	EC: 82500		
Method: ☐ Airlift / Bail / Flow / Pump	TDS: 66000		
Source: Tank / ☐ Well / Dam / River / Spring	pH:		

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665653	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 15/03/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Pirie Street Adelaide. SA 5000			
Collected By:	Sample Depth From: 30.00 To: M		
Remarks: STONY HILL / EL 3287 HOLE#SHR002			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test	EC: 78600		
Method: ☐ Airlift / Bail / Flow / Pump	TDS: 55020		
Source: Tank / ☐ Well / Dam / River / Spring	pH:		

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665654	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 04/05/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 43.00 To: M	
Remarks: STONY HILL / EL 3287 HOLE#SHR025			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test		EC: 58700	
Method: ☐ Airlift / Bail / Flow / Pump		TDS: 41090	
Source: Tank / ☐ Well / Dam / River / Spring		pH:	

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665655	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 05/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 16.00 To: M	
Remarks: STONY HILL / EL 3287 HOLE#SHR008			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test		EC: 75900	
Method: ☐ Airlift / Bail / Flow / Pump		TDS: 53130	
Source: Tank / ☐ Well / Dam / River / Spring		pH:	

DWLBC, GROUNDWATER ASSESSMENT - SOUTH AUSTRALIA

Groundwater Sample

Sample No: 1665656	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 14/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 20.00 To: M	
Remarks: STONY HILL / EL 3287 HOLE#SHR013			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test		EC: 73000	
Method: ☐ Airlift / Bail / Flow / Pump		TDS: 51100	
Source: Tank / ☐ Well / Dam / River / Spring		pH:	

Groundwater Sample

Sample No: 1665657	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 21/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 96.00	To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR018			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test		EC: 66900	
Method: ☐ Airlift / Bail / Flow / Pump		TDS: 46830	
Source: Tank / ☐ Well / Dam / River / Spring		pH:	

Groundwater Sample

Sample No: 1665634	Unit No:	Obs No:	Permit No:
Permit Holder:		Date: 07/04/2008	Time:
Address:		Hundred:	
Results To: Centrex Metals Limited		Section:	Lot No:
Address: Level 3, 100 Prie Street Adelaide. SA 5000			
Collected By:		Sample Depth From: 44.00	To: M
Remarks: STONY HILL / EL 3287 HOLE#SHR009			
Collected: ☐ Drilling / Final Sample / Monitoring / Pump Test		EC: 86100	
Method: ☐ Airlift / Bail / Flow / Pump		TDS: 68880	
Source: Tank / ☐ Well / Dam / River / Spring		pH:	