

Draft

Technical Memorandum

To	Troy Collie	Client	Ausgold Exploration Pty Ltd
From	Alison Hendry	Project	AUG037
Cc		Date	14 March 2025
Subject	Katanning Gold Project: supplementary sub-surface materials characterisation – Phase 1 geochemical characterisation results summary		

1 Introduction

Ausgold Exploration Pty Ltd (Ausgold) has engaged SRK Consulting (Australasia) Pty Ltd (SRK) to complete a supplementary geochemical materials characterisation assessment in support of the Katanning Gold Project (KGP) definitive feasibility study (DFS). The proposed project includes open pit mining of the Jackson, Jinkas, Oly and Dingo deposits. The outcomes from the program will be used to support the DFS and environmental approvals submissions, and inform closure planning.

This memorandum provides a preliminary summary of the Phase 1 geochemical characterisation results for the waste rock (161) and ore (14) samples currently being assessed as part of the DFS materials characterisation program.

2 Phase 1 geochemical results summary

2.1 Waste rock samples

The Phase 1 geochemical characterisation results for the waste rock samples are provided in Attachment 1 to Attachment 4, and summarised as follows.

Acid potential

- The total sulfur content of the waste rock samples ranged from <0.01% to 3.4% S, with a median value of 0.047% S.
- Median sulfur contents in the waste rock lithologies are typically low; all waste lithologies have median sulfur contents below 0.1% S (except for the dolerite samples which have a maximum sulfur content of 0.4% S and gave a median of 0.2% S).
- A small proportion of samples (9%) had sulfur contents above 0.3% S. These included samples from the tm, tb, ti, ts, md and gm lithologies.
- Calculated maximum potential acidity (MPA) values for the waste rock samples ranged from <0.3 kgH₂SO₄/t to 784 kgH₂SO₄/t (median 1.4 kgH₂SO₄/t).

Neutralising potential

- Acid neutralising capacity (ANC) values ranged from $<0.5 \text{ kgH}_2\text{SO}_4/\text{t}$ to $650 \text{ kgH}_2\text{SO}_4/\text{t}$. However, ANC values were typically low (median $15 \text{ kgH}_2\text{SO}_4/\text{t}$).
- A small proportion (8%) of samples had ANC values above $30 \text{ kgH}_2\text{SO}_4/\text{t}$. The highest ANC values ($>200 \text{ kgH}_2\text{SO}_4/\text{t}$) were recorded for three calc-silicate (xx) samples ($230\text{--}650 \text{ kgH}_2\text{SO}_4/\text{t}$) and a garnet (dominant) quartz granulite (tg) sample ($400 \text{ kgH}_2\text{SO}_4/\text{t}$).

Net acid production potential and net acid generation

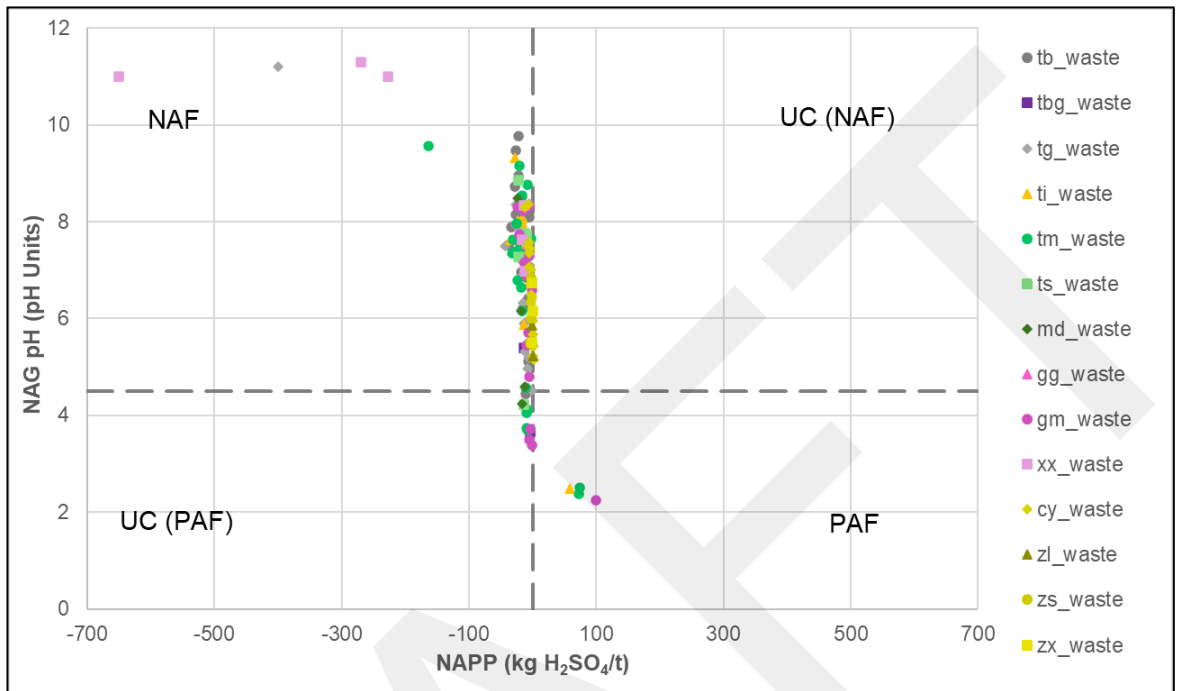
- Calculated net acid production potential (NAPP) values ranged from $-650 \text{ kgH}_2\text{SO}_4/\text{t}$ to $99 \text{ kgH}_2\text{SO}_4/\text{t}$ (median $-11 \text{ kgH}_2\text{SO}_4/\text{t}$). Negative NAPP values were calculated for most samples, indicating an excess of neutralising capacity (based on the total ANC results).
- Single-addition net acid generation (NAG) tests generated NAG solutions with NAG pH values that ranged from pH 2.3 to pH 11.3. Typically NAG pH values were above pH 5 (82% of samples) and associated NAG acidities were low ($<5 \text{ kgH}_2\text{SO}_4/\text{t}$). This indicates that for most samples the acid generation potential is low.
- Acidic NAG solutions ($<\text{pH } 4.5$) were generated from 16 samples (10%) with higher sulfur contents (0.26% S to 3.4% S).
- Comparison of the NAG acidities with calculated NAPP values suggests that incomplete oxidation of sulfide minerals has occurred in the NAG tests on samples with sulfur contents above 2% S. [It is noted that there are no waste rock samples in the sample set with total sulfur contents between 0.5% and 2.4% S – incomplete oxidation of samples subjected to a single-addition NAG test is commonly observed in samples with 1% sulfide content or higher.]

Geochemical classification

The geochemical classifications of the waste rock samples are shown in Figure 2.1.

- Most samples (137; 85%) class as non-acid forming (NAF), including 19 samples that class as NAF-Barren (with ANC values $<5 \text{ kgH}_2\text{SO}_4/\text{t}$).
- Eight samples are classed as uncertain NAF (UC(NAF)), with NAG pH values above pH 4.5 and low positive NAPP values. These samples are all shallow oxide zone samples (cy, zl, zx) and it is likely that the sulfur present is in a form that does not generate acidity (e.g. gypsum).
- Four samples class as potentially acid forming (PAF) – these samples all have high sulfur contents (2.4% to 3.4% S).
- Twelve samples class as UC(PAF); these samples have negative NAPP values but generated acidic NAG pH values. It is likely that these samples contain iron carbonates (such as siderite) which contribute to the total ANC recorded but do not contribute to acid neutralisation. These samples have sulfur contents that range from 0.26% S to 0.49% S. For waste management purposes, these samples would be treated as PAF-classed materials.

Figure 2.1: Geochemical classification of waste rock samples (AMIRA, 2002)



Multi-element assessment and Geochemical Abundance Indices

Multi-element analysis and calculated Geochemical Abundance Indices (GAI) are provided in Attachment 4. Based on the calculated GAI, elements with GAI of 3 or greater are considered to represent ‘enriched’ concentrations relative to average crustal abundances.

- Elements considered to be present in enriched concentrations (in more than 10% of samples for one or more waste lithology) include: Ag, As, Cl, S, Se, Te (predominantly due to analytical constraints – i.e. LOD¹ values exceeded the GAI 3 threshold) and W.

Fibrous mineral screening

Twenty-three waste rock samples were submitted for fibrous mineral screening, including samples from a range of waste rock lithologies and sample depths. No trace fibres were identified in any of the screened samples.

2.2 Ore-grade samples

Acid potential

- The total sulfur content of the ore-grade samples ranged from 0.037% to 8.8% S, with a median value of 0.68% S.
- MPA values for the ore-grade samples ranged from 1.1 kgH₂SO₄/t to 270 kgH₂SO₄/t (median 20.7 kgH₂SO₄/t).

¹ LOD – limit of detection

Neutralising potential

- ANC values for ore samples are low, ranging from <0.5 to 26 kgH₂SO₄/t.

Net acid production potential and net acid generation

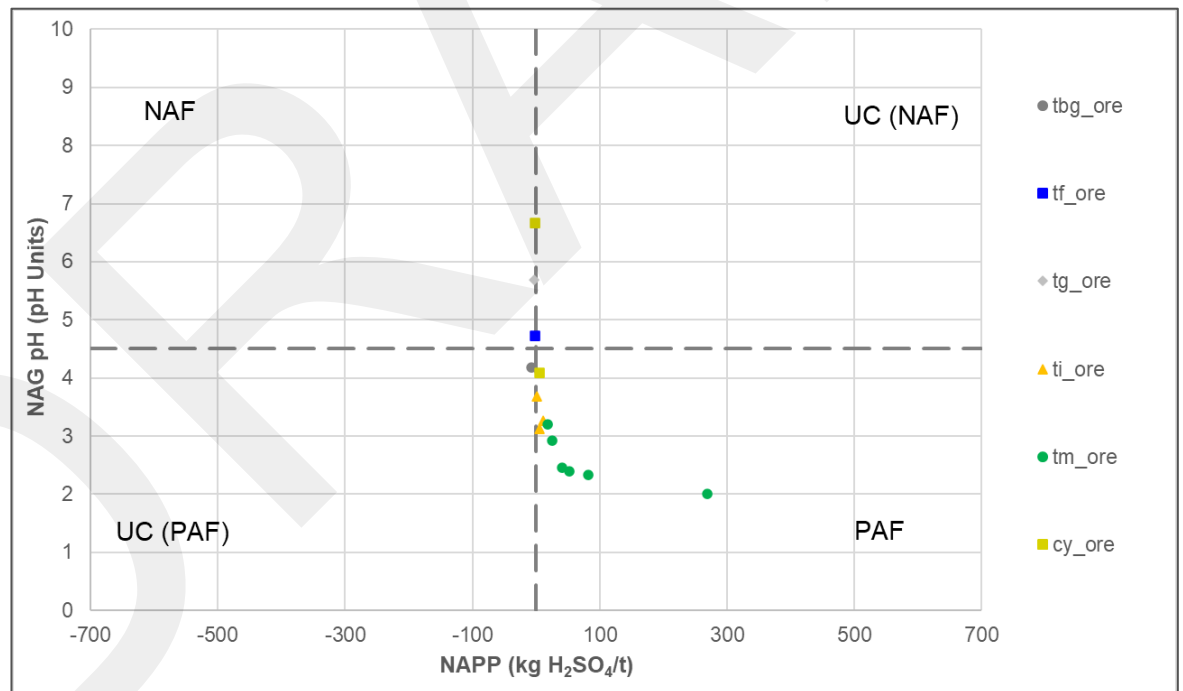
- NAPP values ranged from -6.9 kgH₂SO₄/t to 269 kgH₂SO₄/t (median 8.7 kgH₂SO₄/t). Most samples had positive calculated NAPP values, indicating a deficit neutralising capacity (based on the total ANC results).
- NAG pH values generated from the ore samples ranged from NAG pH 2.0 to NAG pH 6.7; most samples (11 of 14) gave acidic NAG pH values below pH 4.5.

Geochemical classification

The geochemical classifications of the ore-grade samples are shown in Figure 2.2.

- Most of the ore samples classed as PAF (10), including 3 samples that classed as PAF with a low capacity to generate acid (with NAPP values <5 kgH₂SO₄/t). A further sample classed as UC(PAF) which had a NAG pH of 4.2 and a low negative NAPP value (-7 kgH₂SO₄/t).
- Two samples (tg and tf) classed as NAF – these samples had lower-range sulfur contents (0.21% S to 0.23% S). One sample (cy) was classed as NAF-Barren.

Figure 2.2: Geochemical classification of ore-grade samples (AMIRA, 2002)



Multi-element assessment and Geochemical Abundance Indices

- Elements considered to be present in enriched concentrations (in more than 10% of samples for one or more ore-grade lithology assessed) include: Ag, Bi, Re, S, Se, Te and W.
- The enriched concentrations of Re and Te are predominantly due to LOD values exceeding their respective GAI 3 concentration thresholds.

Fibrous mineral screening

A mafic granulite sample was submitted for fibrous mineral screening – no trace fibres were identified in the sample.

3 Preliminary conclusions

The sulfur contents of the waste rock samples were typically low (median 0.047% S), however, approximately one-third of the samples had sulfur contents above 0.1% S (up to a maximum of 3.4% S). A sulfur threshold of 0.1% S is often used as a preliminary indicator of materials that may be PAF (particularly for materials with low or absent ANC).

The neutralising potential of the waste rock lithologies is typically low (<30 kgH₂SO₄/t).

Most waste rock samples classed as NAF (137 of 161 samples) or UC(NAF) (8 samples), based on acid base accounting using total sulfur and total ANC measurements. The classifications of some of these samples may be adjusted once Phase 2 testwork results are available (such as carbon/sulfur speciation testwork results and acid buffering characteristic curves to assess the availability of ANC for acid neutralisation).

The remaining waste rock samples (16, 10% of waste samples) had higher sulfur contents and either classed as PAF (2.4% S to 3.4% S; 4 samples) or UC(PAF) (0.26% S to 0.49% S; 12 samples).

The ore samples had higher sulfur contents (median 0.68% S) than the waste rock samples, with low ANC values (median 13 kgH₂SO₄/t) and predominantly classed as PAF.

4 Forward works

The selection of samples for Phase 2 geochemical testwork is currently underway. Subsets of samples will be submitted for the following Phase 2 static geochemical tests:

- sulfur speciation tests – chromium reducible sulfur (sulfide-S) and HCl digestible sulfur (sulfate-S)
- carbon speciation (total organic carbon and total inorganic carbon) analysis
- acid buffering characteristic curves
- mineralogical assessment by quantitative x-ray diffraction
- static batch deionised water leach tests (1:3 solid:liquid contact ratio; 24-hour contact duration).

Regards
SRK Consulting (Australasia) Pty Ltd

Alison Hendry
Principal Geochemist

Alex Watson
Principal Geochemist

Attachments:

Attachment 1	Phase 1 geochemical results
Attachment 2	Sulfur summary statistics
Attachment 3	ABA summary statistics
Attachment 4	Multi-element and GAI tables

References

AMIRA, 2002. ARD Test Handbook. Project P387A Prediction and Control of Acid Mine Drainage, AMIRA International, May 2002.

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Attachment 1

Phase 1 geochemical results

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Attachment 1 - Phase 1 Geochemical Results

SRK sample ID	Hole ID	REG GROUP	ROCK TYPE	DH TYPE	Grade	Pit Name	Units		pH	EC	TS (LECO)	MPA	ANC	ANC CaCO3	Fizz	NAG pH	NAG pH4.5	NAG pH7.0	NAPP	NPR	Class	
							LOD	µm/cm													%	kg H2SO4/t
BSD0001 22 24	BSD0001	LS	lg	DD	Waste	jnkas	9.0	440	0.098	3	20	2	1	1	6.9	<0.5	<0.5	-17	6.7	NAF	NAF	
BSD0001 58.82 59.59	BSD0001		tb	DD	Waste	jnkas	9.2	300	0.04	1.2	10	1.1	1	1	6.9	<0.5	<0.5	-8.8	8.2	NAF	NAF	
BSD0001 96 98	BSD0001		ti	DD	Waste	jnkas	9.6	240	<0.01	<0.31	400	4.1	4	1	6.9	<0.5	<0.5	-400	1310	NAF	NAF	
BSD0001 109 111	BSD0001		ti	DD	Waste	jnkas	9.1	320	0.024	0.74	24	2.4	1	1	6.9	<0.5	<0.5	-23	32.7	NAF	NAF	
BSD0001 129 131	BSD0001		tm	DD	Waste	jnkas	9.5	210	0.039	1.2	21	2.2	1	1	8.3	<0.5	<0.5	-20	17.6	NAF	NAF	
BSD0002 8 10	BSD0002	isa	lg	DD	Waste	jnkas	9.0	340	<0.01	<0.31	9.9	1	1	1	6.9	<0.5	<0.5	-9.6	32.3	NAF	NAF	
BSD0002 17 19	BSD0002	isa	lg	DD	Waste	jnkas	8.1	1300	0.012	0.37	6.6	0.67	0	7.4	<0.5	<0.5	-6.2	18.0	NAF	NAF		
BSD0002 31 33	BSD0002	isa	cy	DD	Waste	jnkas	7.8	900	0.013	0.4	5.1	0.52	0	7.1	<0.5	<0.5	-4.7	12.8	NAF	NAF		
BSD0002 40 42	BSD0002	isa	cy	DD	Waste	jnkas	6.9	1000	0.066	2.6	6.3	0.64	0	7.4	<0.5	<0.5	-3.7	2.4	NAF	UC		
BSD0002 54 55.6	BSD0002		xx	DD	Waste	jnkas	10	210	0.11	3.4	230	24	4	11	<0.5	<0.5	-230	68.3	NAF	NAF		
BSD0004 4 5.8	BSD0004		tb	DD	Waste	jnkas	9.1	340	<0.01	<0.31	14	1.5	0	7.6	<0.5	<0.5	-14	45.7	NAF	NAF		
BSD0004 15 17	BSD0004	isa	ti	DD	Waste	jnkas	9.0	390	0.028	0.86	17	1.7	1	8	<0.5	<0.5	-16	19.8	NAF	NAF		
BSD0004 76 78	BSD0004		ti	DD	Waste	jnkas	9.2	250	0.28	8.6	22	2.3	1	5.9	<0.5	0.79	-13	2.6	NAF	UC		
BSD0005 5 6	BSD0005	isa	ti	DD	Waste	jnkas	8.8	390	<0.01	<0.31	9.3	0.95	0	7	<0.5	<0.5	-9	30.4	NAF	NAF		
BSD0005 16.3 18	BSD0005		lg	DD	Waste	jnkas	8.9	450	0.053	1.6	18	1.8	1	8	<0.5	<0.5	-16	11.1	NAF	NAF		
BSD0005 33.8 34	BSD0005		lg	DD	Waste	jnkas	7.3	720	0.14	4.3	4.9	0.51	0	4.5	<0.5	1.7	-0.61	1.1	NAF-Barren	UC		
BSD0005 105 105.5	BSD0005		tb	DD	Waste	jnkas	9.1	310	0.11	3.4	26	2.6	2	9.8	<0.5	<0.5	-23	7.7	NAF	NAF		
BSD0006 0.64 1.95	BSD0006	fk	cy	DD	Waste	jnkas	7.4	490	0.019	0.58	3.2	0.32	0	6.3	<0.5	1.5	-2.6	5.5	NAF-Barren	NAF		
BSD0006 87 89	BSD0006		tm	DD	Waste	jnkas	9.1	210	0.15	4.6	25	2.5	2	9.2	<0.5	<0.5	-20	5.4	NAF	NAF		
BSD0006 96 98	BSD0006		tb	DD	Waste	jnkas	9.0	280	0.12	3.7	18	1.8	1	7.4	<0.5	<0.5	-14	45.9	NAF	NAF		
BSD0006 139 141	BSD0006		tb	DD	Waste	jnkas	8.8	210	0.24	7.4	21	2.1	1	5.4	<0.5	0.95	-14	2.9	NAF	UC		
BSD0006 142 144	BSD0006		tb	DD	Waste	jnkas	9.4	270	0.27	8.3	41	4.2	1	7.9	<0.5	<0.5	-33	5.0	NAF	UC		
BSD0006 146.5 148.5	BSD0006		xx	DD	Waste	jnkas	9.5	280	0.026	0.8	270	28	5	11	<0.5	<0.5	-270	339	NAF	NAF		
BSD0008 44.7 46	BSD0008		tb	DD	Waste	dingo	9.2	380	0.21	6.4	21	2.1	1	6.2	<0.5	0.79	-15	3.3	NAF	NAF		
BSD0008 47.88 49.17	BSD0008		xx	DD	Waste	dingo	10	180	<0.01	<0.31	650	66	5	11	<0.5	<0.5	-650	2120	NAF	NAF		
BSD0008 67 69	BSD0008		tm	DD	Waste	dingo	9.1	170	0.3	9.2	18	1.8	1	3.7	1.3	3.1	-8.8	2.0	UC(PAF)	UC		
BSD0009 20.6 21.5	BSD0009		tm	DD	Waste	dingo	9.5	360	<0.01	<0.31	17	1.7	1	7.6	<0.5	<0.5	-17	55.5	NAF	NAF		
BSD0009 41.6 41.8	BSD0009		tm	DD	Waste	dingo	9.3	250	0.09	2.8	19	1.9	0	6.2	<0.5	0.91	-16	6.9	NAF	NAF		
BSD0009 55.3 55.6	BSD0009		tm	DD	Waste	dingo	9.3	200	0.022	0.67	18	1.8	0	6.6	<0.5	1	-17	26.7	NAF	NAF		
BSD0009 80 81.2	BSD0009		lg	DD	Waste	dingo	9.1	340	0.048	1.5	19	2	1	7.9	<0.5	<0.5	-18	12.9	NAF	NAF		
BSD0009 103.5 103.8	BSD0009		xx	DD	Waste	dingo	9.0	260	0.037	1.1	18	1.8	1	7.6	<0.5	<0.5	-17	15.9	NAF	NAF		
BSD0016 41 43.5	BSD0016		tb	DD	Waste	jnkas	9.3	290	0.29	8.9	12	1.2	1	3.7	1.5	3.4	-3.1	1.4	UC(PAF)	UC		
BSD0016 57 59.85	BSD0016		lg	DD	Waste	jnkas	9.1	370	0.23	7	25	2.5	1	6.2	<0.5	<0.5	-18	3.6	NAF	NAF		
BSD0016 64 67	BSD0016		tm	DD	Waste	jnkas	9.0	380	0.089	2.7	26	2.7	0	6.8	<0.5	<0.5	-23	9.5	NAF	NAF		
BSD0016 109 111.5	BSD0016		lg	DD	Waste	jnkas	9.2	310	0.09	2.6	21	2.1	1	6.9	<0.5	<0.5	-18	8.1	NAF	NAF		
BSD0016 128 130	BSD0016		tm	DD	Waste	jnkas	8.7	360	0.3	9.9	19	1.9	1	2.4	48	58	73	0	2	PAF	PAF	
BSD0017 109 111	BSD0017		tm	DD	Waste	fr	9.0	240	0.087	2.7	23	2.4	1	7.4	<0.5	<0.5	-20	8.6	NAF	NAF		
BSD0017 121 123	BSD0017		lg	DD	Waste	jnkas	8.8	300	0.045	1.4	5.3	0.54	1	5.6	<0.5	2.1	-3.9	3.9	NAF	NAF		
BSD0018 86 88	BSD0018		tb	DD	Waste	jnkas	9.1	250	0.22	6.7	24	2.5	1	7.2	<0.5	<0.5	-17	3.6	NAF	NAF		
BSD0018 129 131	BSD0018		tb	DD	Waste	jnkas	9.3	230	0.16	4.9	25	2.6	1	8.1	<0.5	<0.5	-20	5.1	NAF	NAF		
BSD0018 138 140	BSD0018		tb	DD	Waste	jnkas	9.4	180	0.071	2.2	30	3.1	2	8.7	<0.5	<0.5	-28	13.8	NAF	NAF		
BSD0022 4.4 4.8	BSD0022		md	DD	Waste	jnkas	9.0	620	0.36	11	28	2.8	0	4.2	<0.5	2.8	-17	2.5	UC(PAF)	UC		
BSD0022 8 8.5	BSD0022		md	DD	Waste	jnkas	9.5	650	0.2	6.1	24	2.5	0	6.2	<0.5	0.59	-18	3.9	NAF	NAF		
BSD0022 18 18.5	BSD0022		md	DD	Waste	jnkas	9.1	550	0.15	4.6	23	2.4	0	7.7	<0.5	<0.5	-18	5.0	NAF	NAF		
BSD0022 47.3 47.8	BSD0022		gm	DD	Waste	jnkas	9.4	400	<0.01	<0.31	12	1.2	1	7.1	<0.5	<0.5	-12	39.2	NAF	NAF		
BSD0022 76 78	BSD0022		tm	DD	Waste	jnkas	9.7	250	0.051	1.6	20	2	1	7.7	<0.5	<0.5	-18	12.8	NAF	NAF		
BSD0024 1 3	BSD0024	usa	cy	DD	Waste	jnkas	5.6	2900	0.057	1.7	<0.5	<0.01	0	5.4	<0.5	2.9	1.2	0.3	UC(NAF)	PAF		
BSD0024 16 18.7	BSD0024		cy	DD	Waste	jnkas	8.7	450	0.12	3.7	19	1.9	1	6.3	<0.5	<0.5	-15	5.2	NAF	NAF		
BSD0024 19.5 22	BSD0024		tb	DD	Waste	jnkas	7.8	610	0.021	0.64	5.4	0.56	1	7.1	<0.5	<0.5	-4.8	8.4	NAF	NAF		
BSD0024 46 48.6	BSD0024		tm	DD	Waste	jnkas	9.5	190	0.013	0.4	19	2	1	7.7	<0.5	<0.5	-19	4.7	NAF	NAF		
BSD0026 62 64 65.5	BSD0026	isa	tb	DD	Waste	jnkas	9.3	1100	0.13	4.5	15	1.5	1	6.3	<0.5	0.63	-11	3.2	NAF	NAF		
BSD0026 98 100	BSD0026		lg	DD	Waste	fr	9.3	320	0.2	6.1	50	5.1	3	7	<0.5	<0.5	-44	8.2	NAF	NAF		
BSD0027 55.5 57.5	BSD0027		tb	DD	Waste	jnkas	9.5	280	0.03	0.92	19	2	1	7	<0.5	<0.5	-18	20.7	NAF	NAF		
BSD0027 61.5 63.5	BSD0027		lg	DD	Waste	jnkas	9.1	350	0.19	5.8	13	1.3	0	5	<0.5	0.8	-7.2	2.2	NAF	UC		
BSD0027 102.8 104.8	BSD0027		tm	DD	Waste	jnkas	9.3	270	0.34	10	20	2	1	4.1	0.67	2.2	-9.6	1.9	UC(PAF)	UC		
BSD0027 106.52 108.7	BSD0027		lg	DD	Waste	jnkas	9.5	270	0.063	1.9	19	2	1	7.4	<0.5	<0.5	-17	9.9	NAF	NAF		
BSD0028 60 62	BSD0028		lg	DD	Waste	jnkas	8.8	470	0.13	4	17	1.7	1	5.9	<0.5	0.76	-13	4.3	NAF	NAF		
BSD0028 62.8 64.2	BSD0028		lg	DD	Waste	jnkas	8.9	420	0.16	4.9	17	1.7	1	5.3	<0.5	0.93	-12	3.5	NAF	NAF		
BSD0031 24 26	BSD0031	isa	lg	DD	Waste	jnkas	9.5	420	<0.01	<0.31	11	1.2	1	7.2	<0.5	<0.5	-11	35.9	NAF	NAF		
BSD0031 36 38	BSD0031	isa	tb	DD	Waste	jnkas	9.0	420	0.033	1	14	1.4	1	7.2	<0.5	<0.5	-13	13.9	NA			

Attachment 2

Sulfur summary statistics

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Attachment 2 - Sulfur summary statistics

Waste

Lithology Codes	tb	tbg	tg	ti	tm	ts	md	gg	gm	xx	cy	zl	zs	zx
Total S (%)														
Count	30	3	30	9	24	6	5	1	18	6	20	3	3	3
Min	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	0.034	<0.01	0.024
Median	0.053	0.24	0.047	0.033	0.088	0.028	0.2	<0.01	0.045	0.074	0.024	0.042	0.011	0.025
Average	0.097	0.22	0.074	0.32	0.36	0.1	0.23	<0.01	0.28	0.086	0.034	0.045	0.013	0.042
Max	0.39	0.29	0.23	2.4	3.0	0.49	0.41	<0.01	3.4	0.17	0.086	0.058	0.018	0.078

Notes:

Grey highlighted cells are where Total S \geq 0.1%.

Ore

Lithology Codes	tbg	tf	tg	ti	tm	cy
Total S (%)						
Count	1	1	1	3	6	2
Min	0.2	0.21	0.23	0.46	1.0	0.037
Median	0.2	0.21	0.23	0.62	2.3	0.12
Average	0.2	0.21	0.23	0.6	3.2	0.12
Max	0.2	0.21	0.23	0.73	8.8	0.2

Notes:

Grey highlighted cells are where Total S \geq 0.1%.

Attachment 3 ABA summary statistics

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Attachment 3 - ABA summary statistics

Waste

Lithology Code	Lithology	Sample count	Reported statistic	Paste pH ¹	Paste EC	Total S	NAG pH ¹	NAG to pH 4.5	NAG to pH 7.5	ANC	MPA	NAPP	Class
				s.u.	mS/cm	%	s.u.	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t
tb	biotite (dominant) quartz granulite (gneiss)	30	Min	6.4	180	<0.01	4.1	<0.5	<0.5	5.2	<0.31	-37	NAF
			Median	9.1	340	0.053	7.5	<0.5	<0.5	16	1.6	-12	
			Average	7.8	550	0.097	5.4	0.5	0.7	18	3	-15	
			Max	9.8	4700	0.39	9.8	0.5	2.6	41	12	-4.8	
tbg	Biotite Garnet Gneiss	3	Min	8.8	210	0.12	3.7	<0.5	<0.5	12	3.7	-14	UC(PAF)
			Median	9.0	280	0.24	5.4	<0.5	1.0	18	7.4	-14	
			Average	9.0	260	0.22	4.1	0.8	1.6	17	6.6	-10	
			Max	9.3	290	0.29	7.4	1.5	3.4	21	8.9	-3.1	
tg	garnet (dominant) quartz granulite (gneiss)	30	Min	5.9	220	<0.01	4.5	<0.5	<0.5	2.4	<0.31	-400	NAF
			Median	9.0	390	0.047	7.2	<0.5	<0.5	15	1.4	-13	
			Average	7.3	520	0.074	5.7	<0.5	0.7	28	2.3	-25	
			Max	10.0	2700	0.23	11.0	<0.5	2.1	400	7	-0.61	
ti	intermediate granulite (gneiss)	9	Min	7.9	230	<0.01	2.5	<0.5	<0.5	8.1	<0.31	-35	UC(PAF)
			Median	9.1	320	0.033	7.6	<0.5	<0.5	21	1	-16	
			Average	8.5	470	0.32	3.4	4.2	5.7	21	9.9	-11	
			Max	9.6	1300	2.4	9.3	34.0	46.0	36	74	59	
tm	mafic granulite (gneiss)	24	Min	5.1	160	<0.01	2.4	<0.5	<0.5	4.4	<0.31	-160	UC(PAF)
			Median	9.4	260	0.088	7.4	<0.5	<0.5	20	2.7	-17	
			Average	6.5	480	0.36	3.5	4.9	6.2	27	11	-16	
			Max	9.7	3600	3	9.6	59.0	69.0	170	92	73	
ts	speckled mafic granulite (gneiss)	6	Min	8.1	180	<0.01	4.2	<0.5	<0.5	9.7	<0.31	-23	NAF
			Median	8.9	540	0.028	7.6	<0.5	<0.5	18	0.84	-13	
			Average	8.6	490	0.1	5.0	<0.5	0.8	18	3.2	-15	
			Max	9.6	940	0.49	8.9	<0.5	2.4	28	15	-8.9	
md	dolerite	5	Min	8.4	450	0.013	4.2	<0.5	<0.5	23	0.4	-24	NAF
			Median	9.0	550	0.2	6.2	<0.5	0.6	24	6.1	-18	
			Average	8.8	560	0.23	4.8	<0.5	1.1	25	6.9	-18	
			Max	9.5	650	0.41	8.5	<0.5	2.8	28	13	-12	
gg	granite	1	-	9.4	360	<0.01	7.5	<0.5	<0.5	9.5	<0.31	-9.2	NAF
gm	monzogranite	18	Min	5.5	250	<0.01	2.3	<0.5	<0.5	2	<0.31	-23	UC(PAF)
			Median	9.0	450	0.045	7.0	<0.5	<0.5	12	1.4	-7.6	
			Average	6.7	660	0.28	3.4	2.4	3.3	12	8.7	-3.4	
			Max	9.7	2800	3.4	8.3	31.0	40.0	25	100	99	
xx	calc-silicate rock	6	Min	8.8	180	<0.01	7.0	<0.5	<0.5	18	<0.31	-650	NAF
			Median	9.4	270	0.074	9.7	<0.5	<0.5	120	2.3	-120	
			Average	9.2	310	0.086	7.6	<0.5	<0.5	200	2.6	-200	
			Max	10.0	490	0.17	11.0	<0.5	<0.5	650	5.2	-13	
cy	Clay	20	Min	5.3	200	<0.01	5.2	<0.5	<0.5	<0.5	<0.31	-13	NAF-Barren
			Median	7.0	1100	0.024	6.4	<0.5	1.3	2.8	0.74	-2.1	
			Average	6.1	1500	0.034	5.9	<0.5	1.8	3.7	1	-2.6	
			Max	8.0	5300	0.086	8.4	<0.5	5.1	13	2.6	1.5	
zl	lateritic duricrust	3	Min	5.5	420	0.034	5.2	<0.5	1.1	<0.5	1	-0.41	UC(NAF)
			Median	5.6	580	0.042	5.5	<0.5	2.9	1.1	1.3	-0.059	
			Average	5.7	770	0.045	5.5	<0.5	2.5	1.1	1.4	0.27	
			Max	6.0	1300	0.058	5.9	<0.5	3.5	1.7	1.8	1.3	
zs	soil	3	Min	6.4	200	<0.01	5.5	<0.5	<0.5	1.9	<0.31	-3.7	NAF-Barren
			Median	6.5	220	0.011	6.0	<0.5	1.4	1.9	0.34	-1.6	
			Average	6.6	540	0.013	5.8	<0.5	1.5	2.7	0.4	-2.3	
			Max	7.3	1200	0.018	6.8	<0.5	2.7	4.3	0.55	-1.6	
zx	exotic overburden (roadbase) dump material	3	Min	5.9	290	0.024	5.5	<0.5	0.6	1.8	0.74	-1.3	NAF-Barren
			Median	6.0	770	0.025	6.2	<0.5	1.5	2	0.77	-1	
			Average	6.1	820	0.042	5.9	<0.5	1.7	2	1.3	-0.74	
			Max	7.7	1400	0.078	6.7	<0.5	3.0	2.3	2.4	0.089	

Notes:

- Hydrogen ion concentrations were calculated to assist with the preparation of summary statistics involving pH measurements.
- AMIRA classifications shown for each lithology have been calculated using average values. The average AMIRA classifications may differ from the AMIRA classifications of individual samples within the lithology.

Ore

Lithology Code	Lithology	Sample count	Reported statistic	Paste pH ¹	Paste EC	Total S	NAG pH ¹	NAG to pH 4.5	NAG to pH 7.5	ANC	MPA	NAPP	Class
				s.u.	mS/cm	%	s.u.	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t	kg H ₂ SO ₄ /t
tbg	Biotite Garnet Gneiss	1	-	9.6	250	0.2	4.2	<0.5	2.1	13	6.1	-6.9	UC(PAF)
tf	felsic granulite (gneiss)	1	-	8.1	560	0.21	4.7	<0.5	1.0	8.6	6.4	-2.2	NAF
tg	garnet (dominant) quartz granulite (gneiss)	1	-	8.2	980	0.23	5.7	<0.5	1.1	10	7	-3	NAF
ti	intermediate granulite (gneiss)	3	Min	8.1	300	0.46	3.1	2.1	7.6	11	14	1.1	PAF-LC
			Median	8.4	460	0.62	3.3	4.7	9.8	13	19	6	
			Average	8.4	460	0.6	3.3	4.2	9.5	12	18	6.1	
			Max	9.1	630	0.73	3.7	5.8	11.0	13	22	11	
tm	mafic granulite (gneiss)	6	Min	4.6	310	1	2.0	6.0	16.0	<0.5	31	18	PAF
			Median	8.7	420	2.3	2.4	35.0	44.0	18	70	47	
			Average	5.4	1300	3.2	2.4	55.0	68.0	16	97	81	
			Max	9.1	5500	8.8	3.2	190.0	220.0	26	270	270	
cy	Clay	2	Min	6.6	560	0.037	4.1	<0.5	0.8	<0.5	1.1	-2	PAF-LC
			Median	7.1	1200	0.12	5.4	0.5	2.1	1.8	3.6	1.8	
			Average	6.8	1200	0.12	4.4	0.5	2.1	1.8	3.6	1.8	
			Max	7.5	1800	0.2	6.7	0.6	3.5	3.1	6.1	5.6	

Notes:

- Hydrogen ion concentrations were calculated to assist with the preparation of summary statistics involving pH measurements.
- AMIRA classifications shown for each lithology have been calculated using average values. The average AMIRA classifications may differ from the AMIRA classifications of individual samples within the lithology.

Attachment 3 - ABA summary statistics (median only)

Waste

Lithology Code	Lithology	Sample count	Reported statistic	Paste pH	Paste EC	Total S	NAG pH	NAG to pH 4.5	NAG to pH 7.5	ANC	MPA	NAPP
				s.u.	mS/cm	%	s.u.	kg H ₂ SO ₄ /t				
tb	biotite (dominant) quartz granulite (gneiss)	30	Median	9.1	340	0.053	7.5	<0.5	<0.5	16	1.6	-12
tbg	Biotite Garnet Gneiss	3	Median	9	280	0.24	5.4	<0.5	0.95	18	7.4	-14
tg	garnet (dominant) quartz granulite (gneiss)	30	Median	9	390	0.047	7.2	<0.5	<0.5	15	1.4	-13
ti	intermediate granulite (gneiss)	9	Median	9.1	320	0.033	7.6	<0.5	<0.5	21	1	-16
tm	mafic granulite (gneiss)	24	Median	9.4	260	0.088	7.4	<0.5	<0.5	20	2.7	-17
ts	speckled mafic granulite (gneiss)	6	Median	8.9	540	0.028	7.6	<0.5	<0.5	18	0.84	-13
md	dolerite	5	Median	9	550	0.2	6.2	<0.5	0.59	24	6.1	-18
gg	granite	1	-	9.4	360	<0.01	7.5	<0.5	<0.5	9.5	<0.31	-9.2
gm	monzogranite	18	Median	9	450	0.045	7	<0.5	<0.5	12	1.4	-7.6
xx	calc-silicate rock	6	Median	9.4	270	0.074	9.7	<0.5	<0.5	120	2.3	-120
cy	Clay	20	Median	7	1100	0.024	6.4	<0.5	1.3	2.8	0.74	-2.1
zl	lateritic duricrust	3	Median	5.6	580	0.042	5.5	<0.5	2.9	1.1	1.3	-0.059
zs	soil	3	Median	6.5	220	0.011	6	<0.5	1.4	1.9	0.34	-1.6
zx	exotic overburden (roadbase) dump material	3	Median	6	770	0.025	6.2	<0.5	1.5	2	0.77	-1

Ore

Lithology Code	Lithology	Sample count	Reported statistic	Paste pH	Paste EC	Total S	NAG pH	NAG to pH 4.5	NAG to pH 7.5	ANC	MPA	NAPP
				s.u.	mS/cm	%	s.u.	kg H ₂ SO ₄ /t				
tbg	Biotite Garnet Gneiss	1	-	9.6	250	0.2	4.2	<0.5	2.1	13	6.1	-6.9
tf	felsic granulite (gneiss)	1	-	8.1	560	0.21	4.7	<0.5	1	8.6	6.4	-2.2
tg	garnet (dominant) quartz granulite (gneiss)	1	-	8.2	980	0.23	5.7	<0.5	1.1	10	7	-3
ti	intermediate granulite (gneiss)	3	Median	8.4	460	0.62	3.3	4.7	9.8	13	19	6
tm	mafic granulite (gneiss)	6	Median	8.7	420	2.3	2.4	35	44	18	70	47
cy	Clay	2	Median	7.1	1200	0.12	5.4	0.53	2.1	1.8	3.6	1.8

Attachment 4 Multi-element and GAI tables

DRAFT

Attachment 4 - Multi-element analysis results

SRK sample ID	Hole ID	REG GROUP	ROCK TYPE	DH Type	Grade	Pit Name	Weathering	Units																			
								LOD	ppm	ppm	ppm	mg/kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm						
								0.05	0.1	0.05	0.1	0.01	20	0.01	1	20	0.05	0.5	5	0.05	0.05	0.002					
BSDD001 27 24	BSDD001	LS	tb	DD	Waste	jinkas	pw	14.11	1.1	2.09	<0.1	0.03	19195	24.6	10.1	14480	3454	2.9	13771	3.64	24892	8.21	36.4	1035	67	21.99	<0.02
BSDD001 58.82 59.59	BSDD001		tb	DD	Waste	jinkas	pw	17.62	0.8	3.45	<0.1	0.05	14264	28.23	10.6	3521	617	1.1	32006	7.64	37.8	896	10.6	21.36	<0.02	<0.02	
BSDD001 96.98	BSDD001		tb	DD	Waste	jinkas	pw	10.45	0.8	2.22	<0.1	0.02	19622	15.16	4.3	7983	5352	1.4	7676	4.64	8.9	283	9.9	59.62	<0.02	<0.02	
BSDD001 109.111	BSDD001		ti	DD	Waste	jinkas	pw	18.58	1.1	3.01	<0.1	0.03	26963	27.06	11.6	8664	1065	1.4	14966	6.44	19.7	691	14.5	95.58	<0.02	<0.02	
BSDD001 129.131	BSDD001		tm	DD	Waste	jinkas	pw	17.01	1.4	1.53	<0.1	0.03	7044	10.39	17.8	45897	1201	1.1	24871	4.38	175.6	190	8.7	17.84	<0.02	<0.02	
BSDD002 8 10	BSDD002	is	tb	DD	Waste	jinkas	sw	19.58	0.9	2.9	<0.1	0.03	16346	26.16	10.1	3863	657	0.9	26677	7.07	31.3	792	12.2	37.44	<0.02	<0.02	
BSDD002 17.19	BSDD002	is	tb	DD	Waste	jinkas	sw	17.05	1.1	1.63	<0.1	0.02	13177	27.96	17.7	12547	501	0.5	31164	3.63	115.1	460	11.9	29.43	<0.02	<0.02	
BSDD002 31.33	BSDD002	isa	cy	DD	Waste	jinkas	sw	20.49	1.4	4.22	<0.1	0.03	39734	32.88	21.9	1997	955	1.2	5958	8.56	93.2	401	20.5	128.95	<0.02	<0.02	
BSDD002 40.42	BSDD002	isa	cy	DD	Waste	jinkas	sw	20.51	1.1	5.49	<0.1	0.04	11848	56.58	12.4	1609	7383	3.2	7633	9.58	150	579	25.6	50.65	<0.02	<0.02	
BSDD002 54.55.6	BSDD002		tb	DD	Waste	jinkas	sw	14.48	1.1	2.09	<0.1	0.03	19195	24.6	10.1	14480	3454	2.9	13771	3.64	24892	8.21	36.4	1035	67	21.99	<0.02
BSDD004 4.5.3	BSDD004		tb	DD	Waste	jinkas	sw	14.55	1.4	2.21	<0.1	0.06	24157	33.67	15.3	36254	1324	0.5	18222	11.83	185.2	472	14	7.8	<0.02	<0.02	
BSDD004 15.17	BSDD004	is	tb	DD	Waste	jinkas	sw	19.61	0.8	2.98	<0.1	0.03	14051	26.55	14.8	5137	852	1.1	26891	6.63	32.9	788	12	35.39	<0.02	<0.02	
BSDD004 76.78	BSDD004		ti	DD	Waste	jinkas	sw	19.06	1.2	2.36	<0.1	0.04	18335	26.82	19.1	21742	1211	1.3	26473	5	67.3	817	12	43.7	<0.02	<0.02	
BSDD005 5.6	BSDD005	is	tb	DD	Waste	jinkas	pw	19.77	0.9	3.42	<0.1	0.03	8354	25.51	16.1	9532	682	0.6	27779	6.66	17.9	683	15.1	16.57	<0.02	<0.02	
BSDD005 16.3.18	BSDD005		tb	DD	Waste	jinkas	pw	17.87	0.7	2.96	<0.1	0.02	16884	24.57	13.6	2914	580	1.1	25351	6.94	38.2	734	13.8	36.71	<0.02	<0.02	
BSDD005 33.8.34	BSDD005		tb	DD	Waste	jinkas	pw	16.26	0.7	3.39	<0.1	0.01	22246	42.34	19.5	6221	551	1.4	27842	6	17.7	352	22.1	60.99	<0.02	<0.02	
BSDD005 105.105.5	BSDD005		tb	DD	Waste	jinkas	pw	18.76	1	2.53	<0.1	0.04	20470	22.82	13.8	14310	2028	1.2	18016	5.23	27.7	683	14.2	49.7	<0.02	<0.02	
BSDD006 0.64.1.95	BSDD006	fk	cy	DD	Waste	jinkas	sw	18.42	1.1	4.36	<0.1	0.04	8911	27.01	10.9	4149	90	0.9	15897	6.63	53.2	130	22.3	69.03	<0.02	<0.02	
BSDD006 87.89	BSDD006		tm	DD	Waste	jinkas	sw	16.69	1.5	3.08	<0.1	0.07	2161	9.81	16	32726	2047	0.7	14408	6.55	66.5	553	5.2	1.81	<0.02	<0.02	
BSDD006 98.98	BSDD006		tb	DD	Waste	jinkas	sw	19.22	0.8	3.08	<0.1	0.03	17310	30.69	13.8	12936	1375	2.1	19690	7.08	44.1	337	13.4	40.02	<0.02	<0.02	
BSDD006 139.41	BSDD006		tb	DD	Waste	jinkas	sw	18.27	1.7	1.72	<0.1	0.05	6528	27.65	9.4	4799	6084	31.7	11724	6.55	51.3	1007	6.8	17.62	<0.02	<0.02	
BSDD006 142.144	BSDD006		tb	DD	Waste	jinkas	sw	14.01	1.1	1.79	<0.1	0.04	10174	16.98	13.9	54376	1427	1.1	18597	7.95	550.9	814	6.8	29.12	<0.02	<0.02	
BSDD006 146.5.148.5	BSDD006		xx	DD	Waste	jinkas	sw	13.61	0.7	2.32	<0.1	0.02	9028	24.9	7.5	6385	3583	1.1	14054	6.88	22	647	11.2	26.95	<0.02	<0.02	
BSDD006 44.7.46	BSDD006		tb	DD	Waste	jinkas	sw	19.35	0.9	3.22	<0.1	0.04	12961	31.57	16.3	9089	1424	1.1	26201	6.56	23.4	820	14.9	33.81	<0.02	<0.02	
BSDD006 47.88.49.17	BSDD006		xx	DD	Waste	dingo	sw	3.39	0.4	0.64	<0.1	0.01	4821	8.6	1.3	3522	6520	0.8	1470	1.59	3.7	122	6.4	18.61	<0.02	<0.02	
BSDD006 67.69	BSDD006		tm	DD	Waste	dingo	sw	20.33	1.6	1.45	<0.1	0.09	2757	13.46	14.9	39813	2153	1.2	18067	9.13	77.7	652	3.6	2.47	<0.02	<0.02	
BSDD009 20.6.21.5	BSDD009		tm	DD	Waste	dingo	sw	18.14	1.7	1.25	<0.1	0.09	1631	11.35	12.4	43320	1523	1.2	18055	6.4	111.7	451	3.4	1.06	<0.02	<0.02	
BSDD009 41.6.41.8	BSDD009		tm	DD	Waste	dingo	sw	17.92	1.4	1.77	<0.1	0.09	3695	12.72	29.4	48505	1627	0.8	14992	6.58	305.2	508	3.6	4.63	<0.02	<0.02	
BSDD009 55.5.53.6	BSDD009		tm	DD	Waste	dingo	sw	20.14	1.3	1.14	<0.1	0.05	5015	14.75	11.3	33631	1468	1.7	24908	3.52	89.5	249	8.2	9.3	<0.02	<0.02	
BSDD009 60.81.7	BSDD009		tg	DD	Waste	dingo	sw	14.48	1.1	2.13	<0.1	0.03	13919	23.48	21.1	26826	335	0.8	21490	5.08	16.6	372	9.4	31.4	<0.02	<0.02	
BSDD009 103.103.8	BSDD009		xx	DD	Waste	dingo	sw	18.68	1.1	1.63	<0.1	0.01	16566	13.1	15.4	4959	436	0.8	22708	2.38	8.7	314	11.8	59.78	<0.02	<0.02	
BSDD016 41.43.5	BSDD016		tb	DD	Waste	jinkas	sw	17.38	1.3	3.98	<0.1	0.05	10577	29.78	17.3	25399	936	2	15147	7.75	180.7	190	19.7	58.34	<0.02	<0.02	
BSDD016 57.59.85	BSDD016		tb	DD	Waste	jinkas	sw	20.65	1.2	4.32	<0.1	0.05	8469	23.25	16.3	22150	852	4.1	21651	10.56	89.2	1233	16.2	38.39	0.02	<0.02	
BSDD016 64.67	BSDD016		tm	DD	Waste	jinkas	sw	17.71	1.4	2.28	<0.1	0.05	2680	20.16	13.4	27056	1021	1.3	15037	5.92	89.1	1169	10.4	4.18	<0.02	<0.02	
BSDD016 109.111.5	BSDD016		tm	DD	Waste	jinkas	sw	18.85	1.2	2.54	<0.1	0.07	8290	17.72	13.7	34471	1398	0.7	15214	5.75	175.7	726	6.8	27.14	<0.02	<0.02	
BSDD016 128.130	BSDD016		tm	DD	Waste	jinkas	sw	15.02	1.4	1.82	<0.1	0.09	9470	19.6	15.4	38254	2490	1.8	15438	6.25	123.2	958	5.9	35.9	<0.02	<0.02	
BSDD017 109.111	BSDD017		tm	DD	Waste	jinkas	sw	17.45	1.6	1.42	<0.1	0.07	2698	12.74	14.6	36926	1328	2.7	16148	6.17	99.2	630	4.6	3.8	0.02	<0.02	
BSDD017 121.123	BSDD017		tg	DD	Waste	jinkas	sw	19.59	0.8	3.77	<0.1	0.02	18055	35.44	18.2	6383	639	0.9	26530	5.9	26.8	444	17.3	46.86	<0.02	<0.02	
BSDD018 86.88	BSDD018		tb	DD	Waste	jinkas	sw	16.65	1.3	1.54	<0.1	0.05	4832	15.36	9.9	27332	2144	1.1	16360	6.52	86.5	1000	6.3	11.03	<0.02	<0.02	
BSDD018 129.131	BSDD018		tb	DD	Waste	jinkas	sw	19.25	1.5	1.51	<0.1	0.08	2893	15.38	16.9	40121	1536	0.6	17584	6.82	104.4	1149	34.1	3.74	0.02	<0.02	
BSDD018 138.140	BSDD018		tb	DD	Waste	jinkas	sw	16.96	1.7	1.72	<0.1	0.07	2755	13.1	15.4	40336	1361	0.5	16894	5.98	107.1	477	5.8	1.84	<0.02	<0.02	
BSDD022 4.4.4.8	BSDD022		md	DD	Waste	jinkas	sw	17.01	1.4	2.2	<0.1	0.08	9507	14.29	23.6	40823	1527	0.6	20432	7.99	98	723	5.8	54.19	0.02	<0.02	
BSDD022 8.8.5	BSDD022		md	DD	Waste	jinkas	sw	18.17	1.6	2.48	<0.1	0.08	11063	13.36	28.7	40281	1621	0.5	19553	8.54	119.4	774	3.8	62.19	0.03	<0.02	
BSDD022 18.18.5	BSDD022		md	DD	Waste	jinkas	sw</																				

Attachment 4 - Multi-element analysis results

SRK sample ID	Hole ID	REG GROUP	ROCK TYPE	DH Type	Grade	Pit Name	Weathering	Units																
								LOD	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
								S	Se	Sc	So	Sn	St	Te	Ti	V	W	Zn	Zr					
BSSD001 72 24	BSSD001	LS	lg	DD	Waste	jinkas	pw	1247	0.22	23	0.5	0.7	212.85	0.61	0.2	1.82	6858	0.13	0.99	173	1.7	16.69	120	67.2
BSSD001 58 82 59 59	BSSD001		lg	DD	Waste	jinkas	pw	425	<0.05	8.6	<0.5	0.7	212.85	0.6	<0.2	5.99	3182	0.09	1.47	56	1.1	10.41	126	126
BSSD001 96 98	BSSD001		lg	DD	Waste	jinkas	pw	179	0.89	3.6	<0.5	0.7	230.58	0.37	<0.2	10.85	1791	0.23	2.34	27	5	7.33	51	68.7
BSSD001 109 111	BSSD001		ti	DD	Waste	jinkas	pw	253	0.11	8.5	0.6	0.7	210.02	0.47	<0.2	5.24	3107	0.43	1.18	60	1.3	10.2	59	112.4
BSSD001 129 131	BSSD001		tm	DD	Waste	jinkas	pw	454	0.29	23.4	<0.5	0.9	207.52	0.38	<0.2	3.22	3076	0.11	1.79	133	2.5	12.51	71	48.9
BSSD002 8 10	BSSD002	is	lg	DD	Waste	jinkas	sw	<50	0.13	12	0.5	0.7	270.31	0.47	<0.2	1.53	3533	0.16	0.5	80	0.4	13.71	65	112.9
BSSD002 17 19	BSSD002	is	lg	DD	Waste	jinkas	sw	162	0.14	10.7	<0.5	0.4	236.82	0.21	<0.2	7.49	2531	0.14	0.55	62	0.5	9.1	62	61.1
BSSD002 31 33	BSSD002	isa	cy	DD	Waste	jinkas	sw	154	0.46	9.6	0.7	1.1	91.6	1.01	<0.2	11.47	3506	0.6	2.25	60	74.1	20.78	118	151.6
BSSD002 40 42	BSSD002	isa	cy	DD	Waste	jinkas	sw	947	1.87	8.1	1	1.9	87.4	0.83	<0.2	32.81	3849	0.28	1.67	115	26.2	28.35	269	185.9
BSSD002 54 55.6	BSSD002		xx	DD	Waste	jinkas	sw	1592	0.75	3.7	<0.5	0.8	342.23	0.26	<0.2	5.42	1989	0.21	1.44	49	109	11.84	79	74.3
BSSD004 4 5 3	BSSD004		tb	DD	Waste	jinkas	sw	431	0.17	27.6	0.8	0.9	251.41	0.79	<0.2	8.93	8229	0.42	0.53	164	1.5	11.84	108	78.5
BSSD004 15 17	BSSD004	is	ti	DD	Waste	jinkas	sw	311	<0.05	11.7	<0.5	0.6	283.5	0.36	<0.2	1.9	3631	0.17	0.55	71	4	9.9	71	119.5
BSSD004 76 78	BSSD004		ti	DD	Waste	jinkas	sw	3004	<0.05	18.6	<0.5	0.9	483.17	0.24	<0.2	2.7	4250	0.24	0.38	128	2.1	12.13	82	93.8
BSSD005 5 6	BSSD005	is	tb	DD	Waste	jinkas	pw	77	0.05	9.6	<0.5	0.4	252.85	0.49	<0.2	3.39	3727	0.07	0.6	76	2.9	9.31	62	126.6
BSSD005 16.3 18	BSSD005		lg	DD	Waste	jinkas	pw	590	0.08	6.4	<0.5	0.5	350.15	0.47	<0.2	1.42	3426	0.19	0.51	83	0.6	5.92	56	115.8
BSSD005 33.8 34	BSSD005		lg	DD	Waste	jinkas	pw	1395	<0.05	7.6	0.6	0.2	179.22	0.37	<0.2	15.45	3483	0.32	1.11	68	0.2	10.28	56	123.7
BSSD005 105 105.5	BSSD005		tb	DD	Waste	jinkas	pw	1163	<0.05	11.6	0.5	0.7	212.85	0.26	<0.2	1.81	3202	0.23	0.47	80	4.3	13.7	100	94.1
BSSD006 0.64 1.95	BSSD006	fk	cy	DD	Waste	jinkas	sw	215	<0.05	13.3	0.8	0.3	102.83	0.39	<0.2	9.3	2766	0.34	1.45	79	3.7	18.43	58	136.1
BSSD006 87 89	BSSD006		tm	DD	Waste	jinkas	sw	1641	0.26	31.5	0.7	1	150.34	0.3	<0.2	1.25	7079	<0.02	0.85	260	1	22.34	146	46.6
BSSD006 98 98	BSSD006		tb	DD	Waste	jinkas	sw	1197	0.27	11.4	0.9	0.6	295.32	0.43	<0.2	6.19	3276	0.22	0.75	100	0.6	17.24	91	118.8
BSSD006 139 141	BSSD006		tb	DD	Waste	jinkas	sw	2344	<0.07	11.4	0.9	0.1	180.11	0.39	<0.2	3.19	3306	0.41	0.49	69	0.3	2.31	141	81.6
BSSD006 142 144	BSSD006		tb	DD	Waste	jinkas	sw	2812	<0.07	11.4	0.6	0.5	218.12	0.5	<0.2	0.94	4378	0.2	0.35	90	1.4	7.51	86	68
BSSD006 146.5 148.5	BSSD006		xx	DD	Waste	jinkas	sw	1060	0.52	5.8	<0.5	1	216.28	0.59	<0.2	6.7	2773	0.12	2.93	44	2.4	11.61	66	84.4
BSSD006 44.7 46	BSSD006		tb	DD	Waste	dingo	sw	2195	<0.05	9.5	<0.5	0.5	232.86	0.41	<0.2	7.08	3632	0.18	1	77	1.1	11.91	84	122
BSSD006 47.88 49.17	BSSD006		xx	DD	Waste	dingo	sw	77	0.21	1.4	<0.5	0.4	168.06	0.13	<0.2	2.08	648	0.1	0.77	8	3.2	4.99	31	20.8
BSSD006 67 69	BSSD006		tm	DD	Waste	dingo	sw	3096	<0.05	41.8	1.3	1.3	213.48	0.53	<0.2	0.32	9551	0.02	0.15	322	0.5	34.49	124	35.6
BSSD009 20.6 21.5	BSSD009		tm	DD	Waste	dingo	sw	<50	<0.05	40.8	0.7	1.1	140.56	0.36	<0.2	0.18	6301	<0.02	0.12	249	<0.1	29.6	110	39.8
BSSD009 41.6 41.8	BSSD009		tm	DD	Waste	dingo	sw	1023	<0.05	37.4	1.1	1.3	153.75	0.38	<0.2	0.49	6232	0.03	0.2	227	1	29.75	131	55.6
BSSD009 55.5 55.6	BSSD009		tm	DD	Waste	dingo	sw	246	0.08	22.4	<0.5	0.5	261.71	0.2	<0.2	0.79	2727	0.05	0.25	117	0.6	14.9	98	37.5
BSSD009 80 81.2	BSSD009		xx	DD	Waste	dingo	sw	492	0.23	3.7	<0.5	0.3	203.22	0.35	<0.2	5.41	2449	0.16	0.94	48	0.5	9.25	87	82.5
BSSD009 103 103.8	BSSD009		xx	DD	Waste	dingo	sw	419	0.07	3.3	<0.5	0.6	200.22	0.16	<0.2	0.99	1610	0.31	0.37	28	21.1	2.31	57	68.2
BSSD016 41 43.5	BSSD016		tb	DD	Waste	jinkas	sw	2955	<0.05	18.3	0.6	0.1	155.41	0.45	<0.2	13.77	3574	0.35	1.65	114	0.2	24.02	108	137.8
BSSD016 57 59.85	BSSD016		lg	DD	Waste	jinkas	sw	2427	<0.05	21.4	0.9	0.2	196.38	0.87	<0.2	3.52	6109	0.22	1.09	173	0.3	11.48	111	159.5
BSSD016 64 67	BSSD016		tm	DD	Waste	jinkas	sw	1133	0.89	18	<0.5	1.3	296.63	0.59	<0.2	4.5	3506	0.03	1.96	115	1.3	14.63	101	79.5
BSSD016 109 111.5	BSSD016		lg	DD	Waste	jinkas	sw	914	0.37	28.7	0.7	1.1	245.27	0.36	<0.2	1.83	5868	0.13	0.6	192	1.4	19.2	102	87.3
BSSD016 128 130	BSSD016		tm	DD	Waste	jinkas	sw	27926	<0.05	19.1	1	1	182.19	0.39	0.2	1.51	4193	0.17	0.47	95	1.7	13.48	150	63
BSSD017 109 111	BSSD017		tm	DD	Waste	jinkas	sw	968	<0.05	32.2	<0.5	1	125.74	0.36	<0.2	0.58	5060	0.02	0.3	201	51.8	23.94	94	46.4
BSSD017 121 123	BSSD017		lg	DD	Waste	jinkas	sw	514	0.06	8.3	<0.5	0.5	263.29	0.4	<0.2	10.38	3189	0.22	1.24	56	0.4	11.75	56	141.2
BSSD018 86 88	BSSD018		tb	DD	Waste	jinkas	sw	2293	<0.05	26.8	0.6	0.2	196.91	0.38	<0.2	0.45	6715	0.07	0.27	183	0.2	19.88	120	54.3
BSSD018 129 131	BSSD018		tb	DD	Waste	jinkas	sw	1685	<0.05	36.8	1.2	1.3	139.53	0.51	<0.2	1.02	7150	0.02	0.3	249	0.3	27.55	131	52.1
BSSD018 138 140	BSSD018		tb	DD	Waste	jinkas	sw	677	<0.05	34.8	0.6	0.1	122.26	0.37	<0.2	0.71	5230	<0.02	0.25	229	0.2	23.83	96	56.7
BSSD022 4.4 4.8	BSSD022		md	DD	Waste	jinkas	sw	3882	0.05	42.2	0.7	0.9	201.8	0.49	<0.2	1.84	9577	0.21	0.42	349	0.4	23.8	102	80.6
BSSD022 8 8.5	BSSD022		md	DD	Waste	jinkas	sw	2253	<0.05	43.7	0.7	1	204.8	0.53	<0.2	1.99	9743	0.24	0.45	358	0.2	25.36	110	86.2
BSSD022 18 18.5	BSSD022		md	DD	Waste	jinkas	sw	1630	<0.05	42.6	0.6	1	416.11	0.47	<0.2	3.72	9308	0.13	0.81	339	7.1	23.42	151	96
BSSD022 47.3 47.8	BSSD022		gm	DD	Waste	jinkas	sw	187	0.25	4.8	0.5	0.7	616.34	0.16	<0.2	11.44	1967	0.39	0.89	40	2.3	7.8	44	126.4
BSSD022 76 78	BSSD022		tm	DD	Waste	jinkas	sw	568	<0.05	22.7	<0.5	1.3	216.87	0.36	<0.2	1.13	2678	0.11	0.32	115	0.4	13.73	103	39
BSSD024 1 3	BSSD024	usa	cy	DD	Waste	jinkas	sw	437	0.07	14.4	0.9	0.6	56.27	0.68	<0.2	4.5	4886	0.29	0.82	104	11.7	5.47	64	159.2
BSSD024 16 18.7	BSSD024		lg	DD	Waste	jinkas	sw	1234	0.06	15.1	<0.5	0.9	205.82	0.45	<0.2	7.83	4288	0.17	1.01	91	0.8	19.37	80	128.4
BSSD024 19.5 22	BSSD024		tb	DD	Waste	jinkas	sw	279	<0.05															

Attachment 4 - GAI ≥3 sample count summary

Waste

Lithology Codes	Number of Samples	Ag		As		Bi		Cl		Co		Cr		Mo		Ni		Re		S		Sb		Se		Te		W	
		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
tb	30	1	3%	0	-	1	3%	0	-	1	3%	1	3%	0	-	1	3%	0	-	1	3%	0	-	13	43%	30	100%	2	7%
tbg	3	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	3	100%	3	100%	0	-
tg	30	1	3%	0	-	1	3%	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	8	27%	30	100%	3	10%
ti	9	1	11%	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	1	11%	0	-	2	22%	9	100%	2	22%
tm	24	1	4%	1	4%	1	4%	0	-	0	-	1	4%	1	4%	1	4%	1	4%	5	21%	0	-	12	50%	24	100%	3	13%
ts	6	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	1	17%	0	-	2	33%	6	100%	1	17%
md	5	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	2	40%	0	-	4	80%	5	100%	0	-
gg	1	1	100%	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	1	100%	0	-
gm	18	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	3	17%	0	-	2	11%	18	100%	2	11%
xx	6	0	-	1	17%	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	1	17%	6	100%	2	33%
cy	20	7	35%	3	15%	0	-	2	10%	0	-	0	-	0	-	0	-	1	5%	0	-	1	5%	12	60%	20	100%	9	45%
zl	3	1	33%	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	3	100%	3	100%	2	67%
zs	3	2	67%	1	33%	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	3	100%	3	100%	1	33%
zx	3	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	3	100%	3	100%	3	100%

Notes:

Red highlighted cells are lithology sample counts for analytes with GAI ≥ 3

Ore

Lithology Codes	Number of Samples	Ag		Bi		Re		S		Se		Te		W	
		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
tbg	1	0	-	0	-	0	-	0	-	0	-	1	100%	0	-
tf	1	0	-	0	-	0	-	0	-	0	-	1	100%	1	100%
tg	1	0	-	0	-	0	-	0	-	0	-	1	100%	0	-
ti	3	0	-	0	-	0	-	3	100%	1	33%	3	100%	3	100%
tm	6	1	17%	1	17%	1	17%	6	100%	5	83%	6	100%	1	17%
cy	2	2	100%	0	-	0	-	0	-	1	50%	2	100%	2	100%

Notes:

Red highlighted cells are lithology sample counts for analytes with GAI ≥ 3