

ASH CLASSIFICATION STUDY

SASOL SIGMA COLLIERY

14 JANUARY 2014

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This document has been prepared by **Digby Wells Environmental**.

Report Title: Ash Classification Study

Project Number: SAS1691

Name	Responsibility	Signature	Date
André van Coller (M.Sc.)	Geochemistry and reporting	Bell	13 January 2014
Lucas Smith (M.Sc.) Review		£.H	18 November 2013

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SAS1691



LIST OF ABBREVIATIONS

Abbreviation	Description					
ABA	Acid-Base Accounting					
Alk	Alkalinity					
AMD	Acid Mine Drainage					
AP	Acid Potential					
ARL	Acceptable Risk Level					
DEA	Department of Environmental Affairs					
DW	Distilled Water					
DWA	Department of Water Affairs					
DWAF	Department of Water Affairs and Forestry					
EC	Electrical Conductivity					
LC	Leachable Concentration					
LCT	Leachable Concentrations Threshold					
mg/kg	milligram per kilogram					
mg/l	milligram per litre					
NAG	Nett Acid Generation					
NNP	Nett Neutralising Potential					
NP	Neutralising Potential					
NPR	Neutralising Potential Ratio					
ppb	parts per billion					
ppm	parts per million					
SANS	South African National Standards					
SPLP	Synthetic Precipitation Leachate Procedure					
TCLP	Toxicity Characteristic Leachate Procedure					
ТСТ	Total Concentrations Threshold					
TDS	Total Dissolved Solids					
WHO	World Health Organisation					
XRD	X-Ray Diffraction					
XRF	X-Ray Florescence					



EXECUTIVE SUMMARY

Digby Wells Environmental (hereafter Digby Wells) has been appointed by Sasol Sigma Colliery (hereafter Sasol) to conduct various specialist studies and investigation to form part of an Environmental Impact Study (EIA) for the licencing and feasibility of backfilling the Sigma underground colliery with ash produced from the processing of coal.

This report and the various components of it forms part of the geochemical and waste classification study to evaluate the impacts of the backfilling may have on the regional water quality as well as to class the waste to motivate for the alternative waste management activity.

For the purpose of characterising the waste material both in a geochemical and waste classification criteria samples were taken over a period of 1 week. Both wet and dry ash samples were taken with the following methodology:

- Three (3) samples per day (1 kg each) of dry ash just after the burning process for a period of 5 days (15 kg in total);
- One (1) sample per day (2 Litre sample 20% ash/80% water) from the ash slurry stream just before it enters the pump house over a period of 5 days

The sampling run ensures that all the samples were taken at locations and periods to ensure that the data received from the test results are representative of the ash material.

The samples were sent to the Water Lab (Pty) Ltd were accredited methods were used to prepare and analyses the samples. The samples were prepared as follows:

- The dry ash samples were:
 - The 3 samples from each day were combined to form 5 batches of 3 kg samples representative of each day;
 - The sample for each day was then split into 5 smaller batches for the various tests; and
 - The dry samples from each day labelled A, B, C, D, and E was then sent for Acid-Base Accounting (ABA), Nett Acid Generation (NAG), X-ray diffraction (XRD), X-ray florescence (XRF), Toxicity Characteristic Leachate Procedures (TCLP) and Distilled water (DW) leachate tests.
- The wet ash sample was:
 - The 5 samples were combined and allowed to settle after which the solid and liquid phases were separated;
 - The liquid phase was tested for macro and micro elements to determine the characteristics of the ash water; and
 - The solid phase was labelled AWS and sent for Distilled Water (DW) leachate tests to serve as input into the waste classification.



The purpose of this environmental geochemical evaluation and waste classification is to determine the environmental risks associated with using ash as backfill material. The preferred waste management activity proposed and currently being investigated by Sasol Sigma is the use the waste material (ash) as backfill material to fill old mine voids currently labelled with a high risk of subsidence.

The ash material will be pumped in the form of slurry (consisting of 20% ash and 80% water) into areas at risk of subsidence via purposely drilled boreholes after which excess water will be removed through dewatering boreholes and reused. The ash material will then be left to settle and solidify.

Ash material has a very low permeability and hydraulic conductivity and will act as an aquitard once it has settled and compacted; leading to little or no groundwater movement through the newly formed layers. The aquitard/aquiclude nature of the ash material will be favourable as it will not allow leachate to travel down or sideways into the receiving groundwater or surface water systems. In theory any leachable elements will be in small quantities and be easily diluted under natural conditions. The feasibility and potential risk of the ash backfilling methodology proposed will thus be determined in this study through various geochemical tests and evaluations.

Furthermore, the waste classification of the ash material will feed into the licencing and motivation from Sasol to use and licence the backfilling of the ash into the old mine voids as a feasible alternative waste management activity.

Waste Classification

Based on the classification of the Distilled/Reagent water leachate test results against the relevant TCT and LCT limits as given in the legislative guidelines for waste classification (DEA 2013a), the ash to be used as backfill can be classified as follows:

- For boron (B) the results show that LCT0<LC<LCT1 and TC<TCT0;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste;

The following recommendations are made by Digby Wells based on the outcome of the study reported in this document:

The following recommendations are made by Digby Wells based on the outcome of this study:

- In the DW tests the main elements of concern leaching out are B, Ba, Ca, Se, Al and Cr. These elements should be monitored in all phases of the project on a monthly basis;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste; however
 - Based on the low concentrations of the leachable ions (although they are above TCT0 and LCT0 in certain cases), the low NAG and the high NNP (section 3.2.3) it is concluded that the alternative waste management activity



of using the ash material for backfilling of the mine voids at Sigma Colliery is feasible and a motivation to the authorities for this activity to be licenced is recommended.

- The low permeability and hydraulic conductivity of ash will allow little to no seepage through the newly formed ash layers once allowed to settle and thus the environmental concentration of contaminants entering the receiving environment will be low and easily diluted through natural processes.
- If the waste management activity of backfilling the mine voids is not pursued the waste should be disposed of at a Class C Landfill.
- Previous limits and target water quality conditions in the water licence granted for the ash backfilling in Licence #20021165 was well set and achievable. It is recommended that these conditions are kept and monitoring should ensure that the target water quality standards are achieved.



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1 INTRODUCTION

Digby Wells Environmental (hereafter Digby Wells) was appointed by Sasol Sigma Colliery (hereafter Sigma) to conduct various specialist studies as part of an Environmental Impact Assessment (EIA) for the licencing and feasibility of backfilling the Sigma underground colliery with ash produced from the processing of coal at Infrachem. Ash is currently produced from the coal through burning processes at Infrachem and is then fed into the ash slurry stream after mixing with water to produce the slurry.

Sasol Infrachem (the ash supplier) is currently undertaking a process to reassess its various waste and by-product streams, including ash. It views the ash as a by-product and is currently engaging with the DEA for verification of this. Should the DEA share this view, a waste management licence will not be required and the application will be withdrawn. If, on the other hand, the DEA disagrees with Sasol Infrachem and a waste management licence is required the process will continue as per the EIA regulations. Sasol Infrachem will however still apply for authorisation as per the other legislation as listed above and ensure that the backfilling is conducted in accordance with its statutory duties, including the duty of care.

The ash backfilling process being studied and proposed as an environmental management option is of importance due to its effective management of the subsidence currently taking place in certain mined out areas and can potentially occur in the areas where backfilling has not yet been done. The ash backfilling process is thus an important step in managing and addressing the risk of surface subsidence in the Sigma Colliery project area.

Previously under the Water Licence (Licence # 20021165) granted to Sasol Sigma, ash backfilling was attempted with continuous and frequent monitoring of both surface water and groundwater qualities and levels. These results have shown that the overall water quality in the project has improved since the start of the backfilling and has met all licence conditions set for water quality. Based on this historical data backfilling is feasible and thus a new licence is being applied for.

This report forms part of the geochemical and waste classification study to evaluate the potential impacts that the backfilling may have on the regional water quality, as well as to classify the ash as part of the motivation for this environmental management activity.

This report only refers waste classification and no in depth discussions of tests, monitoring data, models and outcomes of studies referring to the groundwater study is made.

1.1 Study Purpose

The purpose of the study is to determine the classification of the material for the licencing for this proposed ash management activity.

1.2 Deliverables

The following deliverables form part of this study:



- Technical report that includes:
 - Classification of the ash material as per the relevant classification procedures; and
 - Recommendations relating to possible mitigation measures and water management.

1.3 Scope of Work and Methodology

1.3.1 Sampling of Ash Material

For the purpose of characterising the ash material according to geochemical and relevant classification criteria, samples were taken over a period of one week. Both wet and dry ash samples were taken according to the following methodology:

- Three dry ash samples per day (1 kg each); sampled just after the burning process for a period of 5 days (15 kg in total); and
- One sample per day (2 litre samples 20% ash / 80% water) from the ash slurry stream just before it enters the pump house over a period of 5 days.

This sampling protocol ensures that all the samples were taken at locations and time frames in line with authority requirements and to ensure that the data received from the test results are representative of the ash material.

1.3.2 Laboratory tests

All samples were sent to Waterlab (Pty) Ltd where accredited methods were used to prepare and analyse the samples. The samples were prepared as follows:

- The dry ash samples:
 - The three samples from each day's sampling run were combined to form 5 batches of 3 kg samples, representative of each day;
 - The sample for each day was then split into 5 smaller batches for the various tests; and
 - The dry samples from each day labelled A, B, C, D, and E was then sent for Acid-Base Accounting (ABA), Nett Acid Generation (NAG), X-ray diffraction (XRD), X-ray florescence (XRF), and Toxicity Characteristic Leachate Procedures (TCLP) and Distilled Water (DW) leachate tests.
- The wet ash sample:
 - The 5 samples were combined and allowed to settle after which the solid and liquid phases were separated;
 - The liquid phase was tested for macro and micro elements to determine the characteristics of the ash water; and



 The solid phase was labelled AWS and sent for Distilled Water (DW) leachate tests to serve as input into the classification.

1.3.3 Result interpretations

The results of the laboratory tests were assessed against various guidelines from the US EPA, WHO, SANS Drinking water standards and the guidelines as set out in the National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008) to determine the potential environmental and human risks, as well as to determine the classification of the ash material.

1.3.4 Technical reporting

A technical report was compiled summarising all results and interpretations, as well as listing recommendations and possible mitigation measures. The classification report also serves as input into a motivation for the licencing of the ash to be used for backfilling of mine voids.

2 PREFERED ASH MANAGEMENT ACTIVITY AND OBJECTIVES

The purpose of this environmental geochemical evaluation and classification is to determine the environmental risks associated with using ash as backfill material. The preferred ash management activity proposed and currently being investigated by Sasol Sigma is the use the ash material as backfill material to fill old mine voids currently labelled with a high risk of subsidence.

The ash material will be pumped in the form of slurry (consisting of 20% ash and 80% water) into areas at risk of subsidence via purposely drilled boreholes after which excess water will be removed through dewatering boreholes and reused. The ash material will then be left to settle and solidify.

Ash material has a very low permeability and hydraulic conductivity and will act as an aquitard once it has settled and compacted; leading to little or no groundwater movement through the newly formed layers. The aquitard/aquiclude nature of the ash material will be favourable as it will not allow leachate to travel down or sideways into the receiving groundwater or surface water systems. In theory any leachable elements will be in small quantities and be easily diluted under natural conditions. The feasibility and potential risk of the ash backfilling methodology proposed will thus be determined in this study through various geochemical tests and evaluations.

Furthermore, the classification of the ash material will feed into the licencing and motivation from Sasol to use and licence the backfilling of the ash into the old mine voids as a feasible ash management activity.

Previously ash backfilling has been done under the a water licence (Licence 20021165) with certain water quality objectives set that should be adhered to. Since the start of the project the water quality of the monitoring network and project area has improved and all objectives have been reached. Thus based on past processes and monitoring the backfilling of mine voids at Sasol Sigma Colliery is feasible.



3 ASH CLASSIFICATION

3.1 Introduction

The backfilling option proposed for the Sigma Colliery is an ash management activity that will be a mono-disposal process. Due to the mono-disposal nature of the backfilling option the ash slurry was sent for Distilled/Reagent water leachate tests as well as a complete analysis of the fluid phase. The results of these tests were then classed and compared against the Total Concentration Threshold (TCT) and Leachable Concentration Threshold (LCT) limits to determine the waste type as per legislative guidelines given in the National Environmental Management Waste Act, 2008 (Act No. 59 of 2008).

The results of the water analysis and ash analysis were combined in a weighted average calculation of 80% water and 20% ash for the total concentrations. This procedure was followed as the current and planned water to ash ratio in the slurry will be 80% water and 20% ash. The sum of these weighted average calculations thus gives an accurate indication of the concentrations that can be expected to enter the mine voids. The leachable concentrations however represent an accurate indication of what can leach from the solid phase into the environment and was used as such. Where values were below the limit of detection they were indicated as such.

The water phase of the slurry was submitted for a full organic analysis as well. Due to the volatile nature of most of the organic compounds and there high mobility, if any organic compounds were found in the ash material itself it would either have combusted or dissolved into the liquid.

3.2 Legislative Guidelines

The following legislative guidelines were instated in August 2013 and give the background and guidelines for classification in South Africa:

- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008). National Waste Information Regulations, 2012 (DEA 2012);
- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008). National Norms and Standards for the Assessment of Waste for Landfill Disposal (DEA 2013a);
- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008). National Norms and Standards for the Disposal of Waste to Landfill (DEA 2013b); and
- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008). National Waste Classification and Management Regulations (DEA 2013c).

The above four documents were used as the classification guidelines for this project.



3.3 Data Evaluation and Comparisons

3.3.1 Total Concentration Threshold

From the classification of the ash slurry material according to the TCT limits (Table 1) the following can be concluded:

All TCT values from the ash slurry material is below the TCT0 threshold limits;

3.3.2 Leachable Concentration Threshold

From the classification of the ash material according to the LCT limits (Table 2) the following can be concluded:

- The ash slurry sample shows boron (B = 1.4 mg/kg) levels above the recommended LCT0 limits but are still well below the LCT1 limits;
- All other concentrations of the ions tested for and present in the samples are within the LCT0 limits.

3.4 Classification

Based on the classification of the Distilled/Reagent water leachate test results against the relevant TCT and LCT limits as given in the legislative guidelines for classification (DEA 2013a), the ash to be used as backfill can be classified as follows:

- For boron (B) the results show that LCT0<LC<LCT1 and TC<TCT0;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste;
- A Type 3 waste may only be disposed of at a Class C (GLB+) landfill; however
 - Based on the low concentrations of the leachable ions (although they are above TCT0 and LCT0 in certain cases), the low NAG and high NNP (section 3.2.3) it is concluded that the alternative ash management activity of backfilling the mine voids at Sigma colliery with the ash material is feasible and a motivation to the authorities for this activity to be licenced is recommended; furthermore
 - The low permeability and hydraulic conductivity of ash will allow little to no seepage through the newly formed ash layers once it has settled and thus the environmental concentration of contaminants entering the receiving environment will be low and easily diluted through natural processes.



Table 1: TCT classification table

Parameter	Unit	тсто	TCT1	TCT2	AWS
As	mg/kg	5.8	500	2000	0.01
В	mg/kg	150	15000	60000	5.71
Ва	mg/kg	62.5	6250	25000	8.15
Cd	mg/kg	7.5	260	1040	0.0004
Со	mg/kg	50	5000	20000	<0.02
Cr	mg/kg	46000	800000	N/A	0.49
Cu	mg/kg	16	19500	78000	<0.02
Hg	mg/kg	0.93	160	640	0.0012
Mn	mg/kg	1000	25000	100000	0.04
Мо	mg/kg	40	1000	4000	0.223456
Ni	mg/kg	91	10600	42400	<0.02
Pb	mg/kg	20	1900	7600	<0.02
Sb	mg/kg	10	75	300	0.016
Se	mg/kg	10	50	200	0.06
V	mg/kg	150	2680	10720	0.55
Zn	mg/kg	240	160000	640000	<0.02
Fluoride as F	mg/kg	100	10000	40000	4

Table 2: LCT classification table

Parameter	Unit	LCT0	LCT1	LCT2	LCT3	AWS
As	mg/l	0.01	0.5	1	4	0.003
В	mg/l	0.5	25	50	200	1.4
Ва	mg/l	0.7	35	70	280	0.4
Cd	mg/l	0.003	0.15	0.3	1.2	0.0001
Со	mg/l	0.5	25	50	200	<0.001
Cr	mg/l	0.1	5	10	40	0.09
Cu	mg/l	2	100	200	800	<0.001
Hg	mg/l	0.006	0.3	0.6	2.4	0.0003
Mn	mg/l	0.5	25	50	200	0.01
Мо	mg/l	0.07	3.5	7	28	0.03
Ni	mg/l	0.07	3.5	7	28	<0.001
Pb	mg/l	0.01	0.5	1	4	<0.001
Sb	mg/l	0.02	1	2	8	0.004
Se	mg/l	0.01	0.5	1	4	0.01
V	mg/l	0.2	10	20	80	0.14
Zn	mg/l	5	250	500	2000	<0.001
Chloride as Cl	mg/l	300	15000	30000	120000	8
Sulphate as SO ₄	mg/l	250	12500	25000	100000	22
Nitrate as N	mg/l	11	550	1100	4400	<0.2
Fluoride as F	mg/l	1.5	75	150	600	0.6



4 CONCLUSIONS

Based on the geochemical study results and classification the following can be concluded:

Based on the classification of the Distilled/Reagent water leachate test results against the relevant TCT and LCT limits (as given in the legislative guidelines for classification (DEA 2013a), the ash to be used as backfill can be classified as follows:

- For boron (B) the results show that LCT0<LC<LCT1 and TC<TCT0;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste;

5 **RECOMMENDATIONS**

The following recommendations are made by Digby Wells based on the outcome of this study:

- In the DW tests the main elements of concern leaching out are B, Ba, Ca, Se, Al and Cr. These elements should be monitored in all phases of the project on a monthly basis;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste; however
 - Based on the low concentrations of the leachable ions (although they are above TCT0 and LCT0 in certain cases), the low NAG and the high NNP (section 3.2.3) it is concluded that the alternative ash management activity of using the ash material for backfilling of the mine voids at Sigma Colliery is feasible and a motivation to the authorities for this activity to be licenced is recommended.
 - The low permeability and hydraulic conductivity of ash will allow little to no seepage through the newly formed ash layers once allowed to settle and thus the environmental concentration of contaminants entering the receiving environment will be low and easily diluted through natural processes.
- If the ash management activity of backfilling the mine voids is not pursued the ash should be disposed of at a Class C Landfill.
- Previous limits and target water quality conditions in the water licence granted for the ash backfilling in Licence #20021165 was well set and achievable. It is recommended that these conditions are kept and monitoring should ensure that the target water quality standards are achieved.



6 **REFERENCES**

- DEA, 2013a. National Norms and Standards for the Assessment of Waste for Landfill Disposal, Department of Environmental Affairs.
- DEA, 2013b. National Norms and Standards for the Disposal of Waste to Landfill,
- DEA, 2013c. National Waste Classification and Management Regulations, Department of Environmental Affairs.
- DEA, 2012. *National Waste Information Regulations, 2012*, Department of Environmental Affairs.



Appendix A: Laboratory certificates

WATERLAB (Pty) Ltd Reg. No.: 1983/009165/07 V.A.T. No.: 4130107891



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SANAS Accredited Testing Laboratory No. T0391

CERTIFICATE OF ANALYSES GENERAL WATER QUALITY PARAMETERS

Date received: 2013 - 09 - 26			Dat	e completed: 2013 - 10 – 14		
Project number: 1000	Report num	ber: 42135	Ord	ler number: SAS1691		
Client name: Digby Wells Environmental Address: Private Bag X10046 Randburg 2125 Telephone: 011 789 9495 Facsimile: 011		011 789 9498	Contact person: Mr. A. van Coller e-mail: <u>andre.van.coller@digbywells.c</u> Mobile: -			
Analyses in mg/e		Method		Sample Identification		
Sample Number		Identificatio	n	18946		
nH – Value at 25°C		WI 4B001		12.3		
Electrical Conductivity in mS/m at	25°C	WLAB002		523		
Total Dissolved Solids at 180°C *	20 0	WLAB003		1 412		
Total Acidity as CaCO ₃ *		WLAB022		<5		
Total Alkalinity as CaCO ₃		WLAB007		1 248		
P-Alkalinity as CaCO ₃ *		WLAB023		880		
Bicarbonate Alkalinity as CaCO ₃ *		WLAB023		<5		
Carbonate Alkalinity as CaCO ₃ *		WLAB023		736		
Total Hardness as CaCO ₃ *		WLAB051		1 102		
Chloride as Cl		WLAB046		163		
Sulphate as SO₄		WLAB046		60		
Fluoride as F		WLAB014		1.7		
Nitrate as N		WLAB046		<0.2		
Nitrite as N		WLAB046		0.3		
Ortho Phosphate as P		WLAB046		<0.2		
Dissolved Oxygen as O ₂ *		WLAB040		6.0		
Free & Saline Ammonia as N		WLAB046		3.8		
Ammonium as NH₄ *				<0.2		
Sodium as Na		WLAB015		168		
Potassium as K		WLAB015		15.6		
Calcium as Ca		WLAB015		442		
Magnesium as Mg		WLAB015		<2		
Analyses continued on next page						

A. van de Wetering

Technical Signatory

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SANAS Accredited Testing Laboratory No. T0391

CERTIFICATE OF ANALYSES GENERAL WATER QUALITY PARAMETERS

Date received: 2013 - 09 - 26		Date completed: 2013 - 10 - 14
Project number: 1000	Report number: 42135	Order number: SAS1691
Client name: Digby Wells Enviro	nmental	Contact person: Mr. A. van Coller
Address: Private Bag X10046 Ra	ndburg 2125	e-mail: andre.van.coller@digbywells.com
Telephone: 011 789 9495	Facsimile: 011 789 9498	Mobile: -
		Comple Identification

Analyses in mg/ℓ		Sample Identification		
(Unless specified otherwise)	Identification	Composite		
Sample Number		18946		
Aluminium as Al	WLAB015	3.78		
Arsenic as As *	WLAB015	<0.010		
Boron as B *	WLAB015	0.696		
Cadmium as Cd	WLAB015	<0.005		
Chromium as Cr	WLAB015	0.167		
Hexavalent Chromium as Cr ⁶⁺ *	WLAB032	0.160		
Cobalt as Co	WLAB015	<0.025		
Copper as Cu	WLAB015	<0.025		
Iron as Fe	WLAB015	0.559		
Lead as Pb	WLAB015	<0.020		
Manganese as Mn	WLAB015	<0.025		
Mercury as Hg *	WLAB047	<0.001		
Nickel as Ni	WLAB015	<0.025		
Selenium as Se *	WLAB015	0.032		
Uranium as U *	WLAB015	<0.010		
Zinc as Zn	WLAB015	<0.025		
% Balancing		98.9		

* = Not SANAS Accredited

Tests marked "Not SANAS Accredited" in this report are not included in the SANAS Schedule of Accreditation for this Laboratory.

A. van de Wetering

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CERTIFICATE OF ANALYSES X-RAY FLUORESENCE

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

, Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Major Element Concentration (wt %)[s]						
Major Elements	А	В	С	D	E		
	18940	18941	18942	18943	18944		
SiO ₂	49.12	48.3	46.87	61.01	48.49		
TiO ₂	2.54	2.56	2.54	1.68	2.36		
Al ₂ O ₃	32.53	32.47	33.21	24.65	31.15		
Fe ₂ O ₃	3.23	3.18	3.3	2.62	3.06		
MnO	0.04	0.05	0.05	0.04	0.05		
MgO	0.59	0.67	0.75	0.52	0.73		
CaO	6.16	6.35	6.65	0.65	5.78		
Na ₂ O	0.63	0.78	0.87	0.3	0.79		
K ₂ O	0.67	0.69	0.72	1.81	0.7		
P_2O_5	0.14	0.15	0.15	0.08	0.15		
Cr ₂ O ₃	0.05	0.05	0.05	0.04	0.05		
SO ₃	0.1	0.26	0.14	0.11	0.36		
LOI	3.72	4.06	4.18	6.22	5.86		
Total	99.52	99.57	99.48	99.73	99.53		
H ₂ O-	0.04	0.08	0.2	0.47	0.13		

[s] =Results obtained from sub-contracted laboratory

E. Botha Geochemistry Project Manager

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CERTIFICATE OF ANALYSES X-RAY FLUORESENCE

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Trace Element Concentration (ppm) [s]						
Trace Elements	Α	В	С	D	E		
	18940	18941	18942	18943	18944		
As	23.5	21.8	25.9	<1.00	20.6		
Ва	812	846	897	479	828		
Bi	<1.00	<1.00	<1.00	<5.00	<1.00		
Br	1.32	1.16	1.21	<1.00	1.25		
Cd	1.84	<5.00	<5.00	<5.00	<5.00		
Се	<5.00	<5.00	<5.00	<5.00	<5.00		
CI	1129	881	1041	802	956		
Со	12.7	32.5	53.9	<5.00	42.7		
Cs	<1.00	<1.00	1.49	<1.00	<1.00		
Cu	84.7	71	78	23.7	72.8		
Ga	72	74.4	76.4	21	64.5		
Ge	15.8	14	18.5	4.09	13.2		
Hf	8.68	8.88	9.02	14.9	8.71		
Hg	1.6	1.65	1.73	<5.00	1.37		
La	103	66.2	92.2	15.1	69.7		
Lu	<1.00	<1.00	<1.00	<1.00	<1.00		
Мо	13.9	11.3	13.1	10.8	12.2		
Nb	53.7	54.1	53.1	19.1	49		
Nd	80.3	83.5	70.9	65.2	62.5		
Ni	75.5	74.2	80.7	52.9	74		
Pb	111	133	128	20.1	103		
Rb	32.9	35.8	36.2	59.9	33.9		
Sb	<5.00	3.39	<1.00	3.12	3.66		
Sc	18.6	16.6	21	12.6	18.8		
Se	<1.00	<5.00	<1.00	<5.00	<1.00		
Sm	17.9	16.4	17.1	12.6	17.2		
Sn	1.76	2.89	1.56	4.78	2.49		
Sr	905	887	1128	161	1063		
Та	3.27	3.57	5.17	3.27	2.66		
Те	27.5	30.4	25.7	2.7	29.7		
Th	56	60.9	58.7	29.9	53.4		
TI	2.21	1.95	1.26	<1.00	1.74		
	R	esults continued	l on next page				

E. Botha

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CERTIFICATE OF ANALYSES X-RAY FLUORESENCE

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Trace Element Concentration (ppm) [s]						
Trace Elements	А	В	С	D	E		
	18940	18941	18942	18943	18944		
U	15	16.2	17.2	4.63	16.6		
V	281	290	304	74.9	282		
W	5.16	5.12	4.93	4.93	4.95		
Y	107	112	110	26.5	104		
Yb	26.7	25	25.9	18.8	24.3		
Zn	95.6	94.4	115	111	63.5		
Zr	733	739	718	967	673		

[s] =Results obtained from sub-contracted laboratory

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CERTIFICATE OF ANALYSES X-RAY DIFFRACTION

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-23 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Composition (%) [s]								
	Α			В			С		
18940				18941			18942		
Mineral	Amount (weight %)	Error	Mineral	Amount (weight %)	Error	Mineral	Amount (weight %)	Error	
Amorphous	53.55	1.26	Amorphous	58.08	1.2	Amorphous	55.83	1.29	
Lime	0.83	0.13	Lime	0.67	0.13	Lime	0.52	0.14	
Calcite	0.12	0.11	Calcite	0.04	0.1	Calcite	0	0	
Mullite	38.51	1.11	Mullite	36.07	1.05	Mullite	38.06	1.17	
Quartz	6.98	0.57	Quartz	5.14	0.51	Quartz	5.6	0.54	

	Composition (%) [s]							
	D			E				
	18943		18944					
Mineral	Amount (weight %)	Error	Mineral	Amount (weight %)	Error			
Amorphous	75.55	0.87	Amorphous	55.43	1.23			
Lime	0.36	0.09	Lime	1.08	0.15			
Calcite	0.1	0.17	Calcite	0	0			
Mullite	6.28	0.42	Mullite	35.65	1.05			
Quartz	17.7	0.57	Quartz	7.84	0.57			

[s] Results obtained from sub-contracted laboratory



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CERTIFICATE OF ANALYSES X-RAY DIFFRACTION

Date received: 2013-09-26 Project number: 1000	Report number: 42135	Date completed: 2013-10-23 Order number: SAS1691
Client name: Digby Wells Environme Address: Private Bag X 10046, Rand	tal burg, 2125	Contact person: Andre van Coller Email: andre.van.coller@digbywells.com
Facsimile: 011 789 9498	Telephone: 011 789 9495	Cell: 076 076 9443

Note:

The material submitted was scanned after addition of 20 % Si for quantitative determination of

amorphous content and micronizing in a McCrone micronizing mill.

The material was prepared for XRD analysis using a backloading preparation method.

It was analysed with a PANalytical Empyrean diffractometer with PIXcel detector and fixed slits with

Fe filtered Co-K_ radiation. The phases were identified using X'Pert Highscore plus software.

The relative phase amounts (weight%) were estimated using the Rietveld method.

Errors are on the 3 sigma level in the column to the right of the amount (in weight per cent).

Comment:

• In case the results do not correspond to results of other analytical techniques, please let me know for further fine tuning of XRD results.

• Mineral names may not reflect the actual compositions of minerals identified, but rather the mineral group .

• Errors reported for phases occurring in minor amounts are sometimes larger than that of the quantity reported, indicating the possible absence of those phases.

Ideal Mineral compositions: Calcite CaCO3 Lime CaO Mullite 3Al2O3 2SiO2 Quartz SiO2



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<u>CERTIFICATE OF ANALYSES</u> ACID – BASE ACCOUNTING EPA-600 MODIFIED SOBEK METHOD

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Acid – Base Accounting	Sample Identification						
Modified Sobek (EPA-600)	Α	В	С	D	Е	Е	
Sample Number	18940	18941	18942	18943	18944	18944D	
Paste pH	11.7	11.8	12.1	12.2	12.2	12.2	
Total Sulphur (%) (LECO)	0.05	0.06	0.07	0.05	<0.01	<0.01	
Acid Potential (AP) (kg/t)	1.56	1.88	2.19	1.56	0.31	0.31	
Neutralization Potential (NP)	43.50	27.00	36.25	39.25	24.75	25.50	
Nett Neutralization Potential (NNP)	41.94	25.13	34.06	37.69	24.44	25.19	
Neutralising Potential Ratio (NPR) (NP : AP)	27.84	14.40	16.57	25.12	79.20	81.60	
Rock Type	111		111		111		

* Negative NP values are obtained when the volume of NaOH (0.1N) titrated (pH: 8.3) is greater than the volume of HCI (1N) to reduce the pH of the sample to 2.0 – 2.5 Any negative NP values are corrected to 0.00.

Please refer to Appendix (p.2) for a Terminology of terms and guidelines for rock classification



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APPENDIX : TERMINOLOGY AND ROCK CLASSIFICATION

TERMINOLOGY (SYNONYMS)

- Acid Potential (AP) ; Synonyms: Maximum Potential Acidity (MPA) Method: Total S(%) (Leco Analyzer) x 31.25
- Neutralization Potential (NP); Synonyms: Gross Neutralization Potential (GNP); Syn: Acid Neutralization Capacity (ANC) (The capacity of a sample to consume acid) Method: Fizz Test; Acid-Base Titration (Sobek & Modified Sobek (Lawrence) Methods)
- Nett Neutralization Potential (NNP) ; Synonyms: Nett Acid Production Potential (NAPP) Calculation: NNP = NP – AP ; NAPP = ANC – MPA
- Neutralising Potential Ratio (NPR) Calculation: NPR = NP : AP

CLASSIFICATION ACCORDING TO NETT NEUTRALISING POTENTIAL (NNP)

If NNP (NP – AP) < 0, the sample has the potential to generate acid If NNP (NP – AP) > 0, the sample has the potential to neutralise acid produced

Any sample with NNP < 20 is potentiall acid-generating, and any sample with NNP > -20 might not generate acid (Usher *et al.*, 2003)

ROCK CLASSIFICATION

ΤΥΡΕ Ι	Potentially Acid Forming	Total S(%) > 0.25% and NP:AP ratio 1:1 or less
TYPE II	Intermediate	Total S(%) > 0.25% and NP:AP ratio 1:3 or less
TYPE III	Non-Acid Forming	Total S(%) < 0.25% and NP:AP ratio 1:3 or greater

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CLASSIFICATION ACCORDING TO NEUTRALISING POTENTIAL RATIO (NPR)

Guidelines for screening criteria based on ABA (Price et al., 1997; Usher et al., 2003)

Potential for ARD	Initial NPR Screening Criteria	Comments
Likely	< 1:1	Likely AMD generating
Possibly	1:1 – 2:1	Possibly AMD generating if NP is insufficiently reactive or is depleted at a faster rate than sulphides
Low	2:1 – 4:1	Not potentially AMD generating unless significant preferential exposure of sulphides along fracture planes, or extremely reactive sulphides in combination with insufficiently reactive NP
None	>4:1	No further AMD testing required unless materials are to be used as a source of alkalinity

CLASSIFICATION ACCORDING TO SULPHUR CONTENT (%S) AND NEUTRALISING POTENTIAL RATIO (NPR)

For sustainable long-term acid generation, at least 0.3% Sulphide-S is needed. Values below this can yield acidity but it is likely to be only of short-term significance. From these facts, and using the NPR values, a number of rules can be derived:

- 1) Samples with less than 0.3% Sulphide-S are regarded as having insufficient oxidisable Sulphide-S to sustain acid generation.
- 2) NPR ratios of >4:1 are considered to have enough neutralising capacity.
- 3) NPR ratios of 3:1 to 1:1 are consider inconclusive.
- 4) NPR ratios below 1:1 with Sulphide-S above 3% are potentially acid-generating. (Soregaroli & Lawrence, 1998 ; Usher *et al.*, 2003)

E. Botha

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<u>CERTIFICATE OF ANALYSES</u> ACID – BASE ACCOUNTING EPA-600 MODIFIED SOBEK METHOD

Date received: 2013-09-26 Project number: 1000	Report number: 42135	Date completed: 2013-10-22 Order number: SAS1691
Client name: Digby Wells Environme	tal	Contact person: Andre van Coller
Address: Private Bag X 10046, Randb	ourg, 2125	Email: andre.van.coller@digbywells.com
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CERTIFICATE OF ANALYSES NETT ACID GENERATION

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Nott Apid Constation	Sample Identification: pH 4.5 & 7					
Nett Acid Generation	А	В	С	D	E	E
Sample Number	18940	18941	18942	18943	18944	18944D
NAG pH: (H ₂ O ₂)	10.2	10.3	10.3	10.5	10.2	10.2
NAG (kg H ₂ SO ₄ / t)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

E. Botha Geochemistry Project Manager

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-30 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Anglyggg	Sample Identification				
Analyses		A	В		
Sample number	18	940	189	941	
TCLP / Acid Rain / Distilled Water / H_2O_2	Distilled Water		Distille	d Water	
Dry Mass Used (g)	5	50	5	0	
Volume Used (mℓ)	10	000	10	00	
pH Value at 25°C	12.2		12.1		
Electrical Conductivity in mS/m at 25°C	279		206		
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg	
Alkalinity as CaCO ₃	790	1 580	612	12 240	
Chloride as Cl	<5	<100	<5	<100	
Sulphate as SO₄	22	440	31	620	
Nitrate as N	<0.2	<4.0	<0.2	<4.0	
Fluoride as F	0.6	12	0.5	10	
Phosphorus as P	<0.025	<0.500	<0.025	<0.500	
ICP-MS Quant [s]	See attached repo	ort 42135 ICP DW	See attached report 42135 ICP DW		
Acid Base Accounting	See attached report 42135 ABA		See attached report 42135 ABA		
Net Acid Generation	See attached report 42135 NAG		See attached report 42135 NAG		
X-Ray Diffraction [s]	See attached re	port 42135 XRD	See attached report 42135 XRD		
X-Ray Fluorescence [s]	See attached re	eport 42135 XRF	See attached report 42135 XRF		

[s] Subcontracted

E. Botha

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-30 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Analyses	Sample Identification				
Analyses	(C	D		
Sample number	18	942	189	943	
TCLP / Acid Rain / Distilled Water / H_2O_2	Distilled Water		Distille	d Water	
Dry Mass Used (g)	5	50	5	0	
Volume Used (mℓ)	10	000	10	00	
pH Value at 25°C	12.3		12.4		
Electrical Conductivity in mS/m at 25°C	392		527		
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg	
Alkalinity as CaCO ₃	1 020	20 400	1 368	27 360	
Chloride as Cl	<5	<100	<5	<100	
Sulphate as SO₄	9	180	<5	<100	
Nitrate as N	<0.2	<4.0	<0.2	<4.0	
Fluoride as F	1.0	20	0.7	14	
Phosphorus as P	<0.025	<0.500	<0.025	<0.500	
ICP-MS Quant [s]	See attached repo	ort 42135 ICP DW	See attached report 42135 ICP DW		
Acid Base Accounting	See attached report 42135 ABA		See attached re	port 42135 ABA	
Net Acid Generation	See attached report 42135 NAG		See attached report 42135 NAG		
X-Ray Diffraction [s]	See attached re	port 42135 XRD	See attached report 42135 XRD		
X-Ray Fluorescence [s]	See attached re	eport 42135 XRF	See attached report 42135 XRF		

[s] Subcontracted

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-30 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Analyses	Sample Identification				
Analyses	I	E	AWS		
Sample number	18	944	189	945	
TCLP / Acid Rain / Distilled Water / H_2O_2	Distilled Water		Distille	d Water	
Dry Mass Used (g)	5	0	5	0	
Volume Used (mℓ)	10	00	10	00	
pH Value at 25°C	12.2		11.4		
Electrical Conductivity in mS/m at 25°C	281		461		
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg	
Alkalinity as CaCO ₃	732	14 640	136	2 720	
Chloride as Cl	<5	<100	8	160	
Sulphate as SO₄	23	460	22	440	
Nitrate as N	<0.2	<4.0	<0.2	<4.0	
Fluoride as F	0.8	16	0.6	12	
Phosphorus as P	<0.025	<0.500	<0.025	<0.500	
ICP-MS Quant [s]	See attached repo	ort 42135 ICP DW	See attached report 42135 ICP DW		
Acid Base Accounting	See attached report 42135 ABA		See attached report 42135 ABA		
Net Acid Generation	See attached report 42135 NAG		See attached report 42135 NAG		
X-Ray Diffraction [s]	See attached re	port 42135 XRD	See attached report 42135 XRD		
X-Ray Fluorescence [s]	See attached re	port 42135 XRF	See attached report 42135 XRF		

[s] Subcontracted

E. Botha

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WATERLAB (PTY) LTD <u>CERTIFICATE OF ANALYSES</u> ICP-MS QUANTITATIVE ANALYSIS [s]

Date received: Project number	26/09/2013 : 1000				Date Completed: Report number:	30/10/2013 42135		
Client name: Adress: Telephone:	ient name: Digby Wells Environmental dress: Private Bag X10046, Randburg, 2125 elephone: 011 789 9495				Contact person: Andre van Coller Email: andre.van.coller@digbywells.com			
Extract	Sample Dry Mass (g)	Volume (ml)	Factor	1	[s]= Results obta	ined form subcont	racted laborato	
Distilled Water	50	1000	20		[3]= Nesults obta			
Sample Id	Sample Number	Aq	Aq	AI	Al	As	As	
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg	
Det Limit	100.40	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020	
	18940	<0.001	<0.020	3.01	60 90	0.001	0.020	
	18942	<0.001	<0.020	0.708	14	0.002	0.040	
	18943	0.001	0.020	0.486	10	0.001	0.020	
WC .	18944	<0.001	<0.020	2.13	43	0.001	0.020	
//3	19645	<0.001	<0.020	3.05	13	0.003	0.000	
Sample Id	Sample Number	Au	Au	В	В	Ва	Ba	
Det Limit		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg	
Det Limit	18940	<0.001	<0.020	2.63	<0.020	3.01	<0.020	
	18941	<0.001	<0.020	2.57	51	2.17	43	
	18942	<0.001	<0.020	0.366	7.32	4.03	81	
	18943	<0.001	<0.020	0.063	1.25	11	220	
ws	19845	<0.001	<0.020	1.37	27	0.382	7.63	
				•				
Sample Id	Sample Number	Be	Be	Bi	Bi	Са	Ca	
Det Limit		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg	
Det LIMI	18940	<0.001	<0.020	<0.001	<0.020	322	6440	
	18941	<0.001	<0.020	<0.001	<0.020	282	5640	
	18942	<0.001	<0.020	<0.001	<0.020	440	8800	
	18943	<0.001	<0.020	<0.001	<0.020	560	11200	
ws	19845	<0.001	<0.020	<0.001	<0.020	65	1300	
							•	
Sample Id	Sample Number	Cd	Cd	Ce	Ce	Co	Со	
Dot Limit		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg	
Det Limit	18940	0.0002	0.0020	<0.001	<0.020	<0.001	<0.020	
	18941	0.0002	0.004	<0.001	<0.020	<0.001	<0.020	
•	18942	0.0002	0.004	<0.001	<0.020	<0.001	<0.020	
	18943	0.0001	0.002	<0.001	<0.020	<0.001	<0.020	
ws	19845	0.0001	0.002	<0.001	<0.020	<0.001	<0.020	
				•	•	•		
Sample Id	Sample Number	Cr	Cr	Cs	Cs	Cu	Cu	
Det Limit		mg/i	mg/kg	mg/i	mg/kg	mg/i	mg/kg	
Det Ellint	18940	0.255	5.09	0.001	0.020	<0.001	<0.020	
	18941	0.362	7.24	0.001	0.020	<0.001	<0.020	
	18942	0.177	3.54	0.001	0.020	<0.001	<0.020	
	18943	0.061	1.21	0.001	0.020	<0.001	<0.020	
ws	19845	0.086	1.72	<0.001	<0.020	<0.001	<0.020	
						-		
Sample Id	Sample Number	Fe	Fe	Ga	Ga	Ge	Ge	
Det Limit		mg/i <0.01	mg/kg <0.20	mg/i <0.001	mg/kg <0.020	mg/i <0.001	mg/kg <0.020	
	18940	<0.01	<0.20	0.078	1.55	0.001	0.020	
	18941	<0.01	<0.20	0.103	2.06	<0.001	<0.020	
	18942	<0.01	<0.20	0.056	1.12	<0.001	<0.020	
	18944	<0.01	<0.20	0.042	1.64	<0.001	<0.020	
WS	19845	<0.01	<0.20	0.028	0.563	<0.001	<0.020	
Second	Comela Munda		116	112			11-	
Sample Id	Sample Number	Ht mg/l	Ht ma/ka	Hg mg/l	Hg	Ho mg/l	Ho ma/ka	
Det Limit		<0.001	<0.200	<0.0001	<0.0020	<0.001	<0.200	
	18940	<0.001	<0.200	0.0006	0.0120	<0.001	<0.200	
	18941	<0.001	<0.200	0.0007	0.0140	<0.001	<0.200	
	18942	<0.001	<0.200	0.0005	0.0040	<0.001	<0.200	
	18944	<0.001	<0.200	0.0006	0.0120	<0.001	<0.200	
vs	19845	<0.001	<0.200	0.0003	0.0060	<0.001	<0.200	
Sample Id	Sample Number	Ir	le	ĸ	K	19		
oanpie lu		mg/l	mg/kg	ma/l	mg/ka	mg/l	mg/ka	
Det Limit		<0.001	<0.020	<0.01	<0.20	<0.001	<0.020	
	18940	<0.001	<0.020	0.154	3.1	<0.001	<0.020	
	18941	<0.001	<0.020	0.166	3.3	<0.001	<0.020	
	18942	<0.001	<0.020	0.164	3.3 2.1	<0.001	<0.020	
·	18944	<0.001	<0.020	0.041	0.814	<0.001	<0.020	
NS	19845	<0.001	<0.020	0.435	8.7	<0.001	<0.020	
Sample Id	Sample Number	11	. Li	Ma	Me	Mn	Mn	
oampie iu		mg/l	mg/kg	mg/l	mg/ka	mg/l	mg/ka	
-		~		. J.				

Sample Id	Sample Number	Li	Li	Mg	Mg	Mn	Mn
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg

Det Limit		<0.001	<0.020	<0.01	<0.200	<0.001	<0.020
Δ	189/0	0 300	<0.020	<0.01	<0.200	<0.001	<0.020
<u>~</u>	10340	0.300	<0.020	<0.01	<0.200	<0.001	<0.020
В	18941	0.370	<0.020	<0.01	<0.200	<0.001	<0.020
С	18942	0.330	<0.020	<0.01	<0.200	0.010	0.200
D	18943	0.260	<0.020	<0.01	<0.200	<0.001	<0.020
E	18944	0.370	7.40	<0.01	<0.200	<0.001	<0.020
AWS	19845	0.070	<0.020	<0.01	<0.200	0.010	0.200
Somple Id	Comple Number	Mo	Mo	No	No	Nib	Mb
Sample lu	Sample Number	NIO	NIO NIO	INd	INd		
		mg/i	mg/kg	mg/i	mg/kg	mg/i	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
Α	18940	0.058	1.17	1.27	25	<0.001	<0.020
В	18941	0.069	1.37	1.47	29	<0.001	<0.020
С	18942	0.050	1.01	1.61	32	<0.001	<0.020
D	18943	0.033	0.656	1.54	31	<0.001	<0.020
F	18944	0.053	1.05	2.04	41	<0.001	<0.020
L	10344	0.030	0.601	6.12	422	<0.001	<0.020
AWS	19045	0.050	0.001	0.12	122	20.001	N0.020
Sample Id	Sample Number	Nd	Nd	NI	NI	Pb	Pb
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	0.024	0.485	<0.001	<0.020
В	18941	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
С	18942	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
D	18943	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
E	18944	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
AWS	19845	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
<u> </u>							
Sample Id	Sample Number	P4	D4	Ph	Ph	Ch.	C L
Sample Id	Sample Number	PT	Pt	KD "	KD	ac	50
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	0.002	0.040	0.002	0.040
В	18941	<0.001	<0.020	0.002	0.040	0.002	0.040
С	18942	<0.001	<0.020	0.002	0.040	0.001	0.020
D	18943	<0.001	<0.020	0.002	0.040	0.001	0.020
E	18944	<0.001	<0.020	0.002	0.040	0.002	0.040
AWS	19845	<0.001	<0.020	0.002	0.040	0.004	0.080
Commission	Comula Number	6-	0.0	6.	0.0	C :	0:
Sample lu	Sample Number	30	30	Je "	30	31	31
		mg/i	mg/kg	mg/i	mg/kg	mg/i	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.05	<1.00
Α	18940	0.001	0.020	0.042	0.845	1.5	31
В	18941	0.001	0.020	0.072	1.43	2.0	41
С	18942	<0.001	<0.020	0.014	0.288	0.950	19
D	18943	<0.001	<0.020	0.025	0.492	0.540	11
E	18944	<0.001	<0.020	0.045	0.900	1.7	35
E AWS	18944 19845	<0.001 0.005	<0.020 0.100	0.045 0.009	0.900 0.180	1.7 7.1	35 142
E AWS	18944 19845	<0.001 0.005	<0.020 0.100	0.045	0.900 0.180	1.7 7.1	35 142
E AWS	18944 19845 Sample Number	<0.001 0.005	<0.020 0.100	0.045 0.009	0.900 0.180	1.7 7.1	35 142
E AWS Sample Id	18944 19845 Sample Number	<0.001 0.005	<0.020 0.100	0.045 0.009	0.900 0.180	1.7 7.1	35 142 Ta
E AWS Sample Id	18944 19845 Sample Number	<0.001 0.005 Sn mg/l	<0.020 0.100 Sn mg/kg	0.045 0.009 Sr mg/l	0.900 0.180	1.7 7.1 Ta mg/l	35 142 Ta mg/kg
E AWS Sample Id Det Limit	18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001	<0.020 0.100 Sn mg/kg <0.020	0.045 0.009 Sr mg/l <0.001	0.900 0.180 Sr mg/kg <0.020	1.7 7.1 Ta mg/l <0.001	35 142 Ta mg/kg <0.020
E AWS Sample Id Det Limit A	18944 19845 Sample Number 18940	<0.001 0.005 Sn mg/l <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53	0.900 0.180 Sr mg/kg <0.020 71	1.7 7.1 Ta mg/l <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020
E AWS Det Limit A B	18944 19845 Sample Number 18940 18941	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83	0.900 0.180 Sr mg/kg <0.020 71 57	1.7 7.1 Ta mg/l <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020
E AWS Det Limit A C	18944 19845 Sample Number 18940 18941 18942	<0.001 0.005 mg/l <0.001 <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43	0.900 0.180 mg/kg <0.020 71 57 89	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C D	18944 19845 Sample Number 18940 18941 18942 18943	<0.001 0.005 mg/l <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49	0.900 0.180 Sr mg/kg <0.020 71 57 89 110	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C C D E	18944 19845 Sample Number 18940 18941 18942 18943 18944	<0.001 0.005 0.005 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74	1.7 7.1 mg/i <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16	1.7 7.1 Ta mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Sample Id Det Limit A B C C D E AWS Sample Id	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 Te	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 7 1	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti
E AWS Det Limit A B C C D E AWS Sample Id	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <te mg/l</te 	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg	1.7 7.1 7.1 0.001 0.001 0.001 0.001 0.001 0.001 0.001 7 1 Ti ma//	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg
E AWS Det Limit A B C C D E AWS Sample Id	18944 19845 Sample Number 18940 18941 18942 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.001	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.020	1.7 7.1 Ta mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 Ti mg/l <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00
E AWS Det Limit A B C D E AWS Sample Id Det Limit A	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.001 <0.001	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 7 1 mg/l 0.05 0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00
E AWS Det Limit A B C D D E AWS Sample Id Det Limit A B	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00
E AWS Det Limit A B C D D E AWS Sample Id Det Limit A B C	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18941 18941	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.005 0.005 0005 0005 0005 0005 0005 0005 0005 00	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00 <1.00
E AWS Det Limit A B C D D E AWS Sample Id Det Limit A B C D D E Limit D E C D D E C D D E C D D E C D D E C D D E C D D E C C D E C C D E C D E C C D E C D E C D E C C D E C D E C D E C D E C D E C D E C C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C D E C S C C D E C D C D	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18941 18942 18942	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.0	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id Det Limit A B C C D E C D E C C D E C C C C C C C C C	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18941 18942 18942 18943	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id Det Limit A B C C D D t Limit A B C C	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 18943	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D D E AWS Sample Id Det Limit A B C D D t Limit A B C D D E Limit A Sample Id A WS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18941 18942 18943 18944 18943	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D D E AWS Sample Id Det Limit A B C C D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 Te mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id D E AWS C Sample Id A Sample Id	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18941 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.0	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Sample Id Det Limit A B C D E AWS Sample Id D E C D D E AWS C C D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 18944 19845 Sample Number 18940 18941 18942 18943 18944 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.	0.045 0.009 Sr 9.001 3.53 2.83 4.43 5.49 3.69 0.819 0.819 7 N 40.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 U U	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.005 (0.05 (0.05 (0.05 (0.05 (0.05 (0.05 (0.05) (0.05 (0.05) (0.05 (0.05) (0.05) (0.05 (0.05)	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D D E AWS Sample Id C D D E AWS Sample Id C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 U U mg/l <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05 0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id D E AWS Sample Id C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18944 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 U U mg/l <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 U mg/kg <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 7 1 1 1 0.001 0.001 0.05 0.05 0.05 0.05 0	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <21.00 V mg/kg <0.020
E AWS Det Limit A B C D E AWS Sample Id D E AWS C D E AWS S AWS B C	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18943 18944 18942 18943 18944 19845 Sample Number 18945	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 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E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18943 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id C D E AWS Sample Id E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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<0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 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E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS C C D E AWS Sample Id Det Limit A B C C D E AWS Sample Id C C D E AWS	18944 19845 Sample Number 18940 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C C D E AWS Sample Id Det Limit A B C C D E AWS Sample Id Det Limit A B C C D E AWS C D E AWS C D E C D E C D E C D E C D E C D E C C D E C C D E C C D E C C C D E C C C C	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18943 18944 19845 Sample Number 18940 18940 18941 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS	18944 19845 Sample Number 18940 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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		mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	<0.001	<0.020
3	18941	<0.001	<0.020	<0.001	<0.020
0	18942	<0.001	<0.020	<0.001	<0.020
כ	18943	<0.001	<0.020	<0.001	<0.020
	18944	<0.001	<0.020	<0.001	<0.020
AWS	19845	<0.001	<0.020	<0.001	<0.020



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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-31 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

i Telephone: 011 789 9495 Ce

Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Sample Identification				
Analyses	Α		В		
Sample number	18940		18941		
TCLP / Acid Rain / Distilled Water / H_2O_2	TCLP 2		TCLP 2		
Dry Mass Used (g)	50		50		
Volume Used (mℓ)	1000		1000		
pH Value at 25°C	4.7		4.7		
Electrical Conductivity in mS/m at 25°C	368		364		
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg	
Alkalinity as CaCO₃	600	12 000	564	11 280	
Chloride as Cl	<5	<100	<5	<100	
Sulphate as SO₄	94	1 880	109	2 180	
Nitrate as N	<0.2	<4.0	<0.2	<4.0	
Fluoride as F	0.4	8.0	0.3	6.0	
Phosphorus as P	0.3	6.0	0.4	8.0	
ICP-MS Quant [s]	See attached repo	rt 42135 ICP TCLP	See attached report 42135 ICP TCLP		

[s] Subcontracted

TCLP 2 = pH2.9

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-31 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

; Telephone: 011 789 9495 C

Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Sample Identification				
Analyses	C		D		
Sample number	18942		18943		
TCLP / Acid Rain / Distilled Water / H ₂ O ₂	TCLP 2		TCLP 2		
Dry Mass Used (g)	50		50		
Volume Used (mℓ)	1000		1000		
pH Value at 25°C	4.8		5.1		
Electrical Conductivity in mS/m at 25°C	402		496		
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg	
Alkalinity as CaCO₃	1000	20 000	1776	35 520	
Chloride as Cl	5	100	7	140	
Sulphate as SO₄	118	2 360	81	1 620	
Nitrate as N	<0.2	<4.0	<0.2	<4.0	
Fluoride as F	0.4	8.0	0.8	16	
Phosphorus as P	0.3	6.0	0.2	4.0	
ICP-MS Quant [s]	See attached repo	rt 42135 ICP TCLP	See attached report 42135 ICP TCLP		

[s] Subcontracted

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-31 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

, Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Analyzaa	Sample Identification				
Analyses	E				
Sample number	18944				
TCLP / Acid Rain / Distilled Water / H_2O_2	TCLP 2				
Dry Mass Used (g)	50				
Volume Used (mℓ)	1000				
pH Value at 25°C	4.7				
Electrical Conductivity in mS/m at 25°C	366				
Units	mg/ℓ	mg/kg			
Alkalinity as CaCO ₃	720	14 400			
Chloride as Cl	<5	<100			
Sulphate as SO₄	95	1 900			
Nitrate as N	<0.2	<4.0			
Fluoride as F	0.4	8.0			
Phosphorus as P	0.3	6.0			
ICP-MS Quant [s]	See attached report 42135 ICP TCLP				

[s] Subcontracted

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WATERLAB (PTY) LTD CERTIFICATE OF ANALYSES ICP-MS QUANTITATIVE ANALYSIS [s]

Date received: Project number:	26/09/2013 1000				Date Completed: Report number:	31/10/2013 42135	
Client name: Adress: Telephone:	Digby Wells Environ Private Bag X10046, 011 789 9495	mental Randburg, 2125			Contact person: Email:	Andre van Coller andre.van.coller@	digbywells.com
Extract	Sample Dry Mass (g)	Volume (ml)	Factor		[s]= Results obta	ined form subcont	racted laboratory
TCLP	50	1000	20		[0]		,
Sample Id	Sample Number	Aq	Αα	AI	AI	As	As
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	17.7	354	0.023	0.455
B	18941	<0.001	<0.020	25.2	504	0.027	0.538
	18942	<0.001	<0.020	15.3	306	0.022	0.437
F	18944	<0.001	<0.020	12.3	246	0.010	0.513
-							
Sample Id	Sample Number	Au	Au	В	В	Ва	Ba
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
Α	18940	<0.001	<0.020	7.2	143	1.60	32
в	18941	<0.001	<0.020	8.9	178	1.49	30
	18942	<0.001	<0.020	8.9 6.2	1/8	1.34	27
F	18944	<0.001	<0.020	6.7	124	1.70	34
-	10044			0.1			
Sample Id	Sample Number	Be	Be	Bi	Bi	Са	Са
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.01	<0.20
Α	18940	0.006	0.120	<0.001	<0.020	998	19960
В	18941	0.008	0.160	<0.001	<0.020	1000	20000
C	18942	0.006	0.120	< 0.001	<0.020	1140	22800
D F	18943	0.004	0.080	<0.001	<0.020	1400	28000
<u> </u>	10344	0.000	0.100	(0.001	<0.020	1010	20200
Sample Id	Sample Number	Cd	Cd	Ce	Се	Co	Со
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.0001	<0.0020	<0.001	<0.020	<0.001	<0.020
А	18940	0.0019	0.038	0.082	1.64	0.012	0.241
В	18941	0.0027	0.053	0.105	2.09	0.013	0.255
C	18942	0.0025	0.051	0.073	1.45	0.014	0.281
D F	18943	0.0021	0.042	0.060	1.20	0.013	0.259
E	10944	0.0057	0.014	0.070	1.50	0.011	0.220
Sample Id	Sample Number	Cr	Cr	Cs	Cs	Cu	Cu
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
А	18940	0.501	10	0.001	0.020	0.043	0.859
В	18941	0.591	12	0.001	0.020	0.031	0.624
C	18942	0.484	9.68	0.001	0.020	0.022	0.436
E	18943	0.229	4.59	0.001	0.020	<0.001	<0.020
•	10044	0.201	0.01	0.001	0.020	0.020	0.001
Sample Id	Sample Number	Fe	Fe	Ga	Ga	Ge	Ge
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.01	<0.20	<0.001	<0.020	<0.001	<0.020
A	18940	0.573	11	0.006	0.120	0.206	4.11
B	18941	0.818	16	0.010	0.200	0.250	5.01
C D	18942	0.390	7.79	0.005	0.100	0.230	4.60
F	18943	0.207	4.14 5.31	0.003	0.000	0.149	2.97 4.97
-		0.200	0.01	0.000	0.000	0.2.17	Track
Sample Id	Sample Number	Hf	Hf	Hg	Hg	Но	Но
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.200	<0.0001	<0.0020	<0.001	<0.200
Α	18940	<0.001	<0.200	0.0002	0.004	0.007	0.140
В	18941	<0.001	<0.200	0.0002	0.004	0.008	0.160
с Г	18942	<0.001	<0.200	0.0001	0.002	0.006	0.120
E	18944	<0.001	<0.200	0.0001	0.002	0.005	0.120
Sample Id	Sample Number	lr	lr	К	K	La	La
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.01	<0.20	<0.001	<0.020

		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.01	<0.20	<0.001	<0.020
Α	18940	<0.001	<0.020	0.454	9.1	0.082	1.63
В	18941	<0.001	<0.020	0.524	10.5	0.098	1.96
C	18942	<0.001	<0.020	0.602	12.0	0.079	1.58
D	18943	<0.001	<0.020	0.457	9.1	0.064	1.29
E	18944	<0.001	<0.020	0.653	13.1	0.069	1.38

Sample Id	Sample Number	Li	Li	Mg	Mg	Mn	Mn
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg

Det Limit		<0.001	<0.020	<0.01	<0.200	<0.001	<0.020
A	18940	0.400	862	43.1	862	1.18	24
В	18941	0.510	750	37.5	750	1.26	25
	18942	0.530	1074	53.7	1074	1.38	28
	18943	0.410	1206	60.3	1206	1.58	32
	18944	0.490	1064	53.2	1064	1.56	31
			•		•		
Sample Id	Sample Number	Мо	Мо	Na	Na	Nb	Nb
		ma/l	ma/ka	ma/l	ma/ka	ma/l	ma/ka
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
Δ	18940	0.020	0 397	1 98	40	<0.001	<0.020
R R	18941	0.020	0.388	2.56	51	<0.001	<0.020
с С	18941	0.019	0.500	2.30	57	<0.001	<0.020
	10942	0.029	0.500	2.04	55	<0.001	<0.020
5	10943	0.027	0.340	2.74	55	<0.001	<0.020
<u> </u>	10944	0.014	0.200	2.90	00	<0.001	<0.020
Sample Id	Sample Number	Nd	Nd	NI	NI	Pb	Pb
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	0.095	1.91	0.028	0.563	<0.001	<0.020
В	18941	0.109	2.17	0.023	0.454	0.002	0.040
C	18942	0.096	1.91	0.025	0.510	<0.001	<0.020
D	18943	0.083	1.66	0.016	0.323	<0.001	<0.020
E	18944	0.081	1.62	0.012	0.241	0.004	0.080
Sample Id	Sample Number	Pt	Pt	Rb	Rb	Sb	Sb
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	0.004	0.080	0.015	0.300
В	18941	<0.001	<0.020	0.005	0.100	0.016	0.320
C	18942	<0.001	<0.020	0.005	0.100	0.016	0.320
D	18943	<0.001	<0.020	0.004	0.080	0.010	0.200
E	18944	<0.001	<0.020	0.005	0.100	0.016	0.320
				-	-		
Sample Id	Sample Number	Sc	Sc	Se	Se	Si	Si
		ma/l	ma/ka	ma/l	ma/ka	mg/l	ma/ka
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.05	<1.00
Δ	18940	0.080	1 59	0.029	0.572	92.4	1848
B	18941	0.088	1.00	0.025	0.697	103.9	2078
C C	18942	0.078	1.55	0.018	0.354	93.5	1870
о D	18943	0.059	1.18	0.021	0.421	75.6	1512
F	18944	0.075	1.50	0.060	1.21	91.7	1834
_							
Sample Id	Sample Number	Sn	Sn	Sr	Sr	Ta	Та
	Campio Hamboi	mg/l	ma/ka	mg/l	ma/ka	ma/l	ma/ka
Dot Limit		<0.001	<0.020	<0.001	<0.020	-0.001	<0.020
	19040	<0.001	<0.020	7.50	452	<0.001	<0.020
A	10940	<0.001	<0.020	7.59	132	<0.001	<0.020
в	10941	<0.001	<0.020	7.10	144	<0.001	<0.020
	10942	<0.001	<0.020	9.59	192	<0.001	<0.020
5	10945	<0.001	<0.020	8 30	200	<0.001	<0.020
	10344	NO.001	KU.UZU	0.30	100	N0.001	NU.U2U
0	O	-	T .				
Sample Id	Sample Number	10	Te	In	In	11	11
Dettin		mg/i	mg/kg	mg/i	mg/kg	mg/i	mg/kg
Det Limit		<0.001	<0.020	<0.0001	<0.0020	<0.05	<1.00
A	18940	0.007	0.140	0.0002	0.004	0.029	0.584
в С	18941	0.008	0.160	0.0003	0.006	0.042	0.831
	18942	0.007	0.140	0.0002	0.004	0.022	0.436
и г	18943	0.003	0.060	0.0001	0.002	0.014	0.277
C	18944	0.007	0.140	0.0001	0.002	0.015	0.307
0	Complete	T 1					14
Sample Id	Sample Number			0		V	V
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.0001	<0.0020	<0.001	<0.020
A	18940	<0.001	<0.020	0.0181	0.362	0.298	5.97
8	18941	<0.001	<0.020	0.0219	0.437	0.320	6.40
	18942	<0.001	<0.020	0.0177	0.353	0.390	7.79
о -	18943	<0.001	<0.020	0.0089	0.178	0.131	2.63
C	18944	<0.001	<0.020	0.0073	0.146	0.309	0.18
						7	
Sample Id	Sample Number	W	W	Y	Y		
		mg/l	mg/kg	mg/l	mg/kg	-	
Det Limit		<0.001	<0.020	<0.001	<0.020	4	
A	18940	0.001	0.020	0.209	4.18	-	
В	18941	0.002	0.040	0.230	4.60	-	
C C			0.040	0.201	4.02		
_	18942	0.002					
D	18942 18943	0.002	0.040	0.175	3.50	-	
D E	18942 18943 18944	0.002 0.002 0.001	0.040 0.020	0.175 0.179	3.50 3.59		
D E	18942 18943 18944	0.002 0.002 0.001	0.040	0.175 0.179	3.50 3.59		
D E Sample Id	18942 18943 18944 Sample Number	0.002 0.002 0.001 Zn	0.040 0.020	0.175 0.179 Zr	3.50 3.59 Zr]	
D E Sample Id	18942 18943 18944 Sample Number	0.002 0.002 0.001 Zn mg/l	0.040 0.020 Zn mg/kg	0.175 0.179 Zr mg/l	3.50 3.59 Zr mg/kg		
D E Sample Id Det Limit	18942 18943 18944 Sample Number	0.002 0.002 0.001 Zn mg/l <0.001	0.040 0.020 Zn mg/kg <0.020	0.175 0.179 Zr mg/l <0.001	3.50 3.59 Zr mg/kg <0.020		
D E Sample Id Det Limit A	18942 18943 18944 Sample Number 18940	0.002 0.002 0.001 2n mg/l <0.001 0.158	0.040 0.020 Zn mg/kg <0.020 <u>3.15</u>	0.175 0.179 Zr mg/l <0.001 0.001	3.50 3.59 Zr mg/kg <0.020 0.020		
D E Sample Id Det Limit A B	18942 18943 18944 Sample Number 18940 18941	0.002 0.002 0.001 2n mg/l <0.001 0.158 0.219	0.040 0.020 Zn mg/kg <0.020 3.15 4.38	0.175 0.179 Zr mg/l <0.001 0.001	3.50 3.59 Zr mg/kg <0.020 0.020 0.020		
D E Sample Id Det Limit A 3 C	18942 18943 18944 Sample Number 18940 18941 18942	0.002 0.002 0.001 2n mg/l <0.001 0.158 0.219 0.199	0.040 0.020 Zn mg/kg <0.020 3.15 4.38 3.98	0.175 0.179 Zr <0.001 0.001 0.001 0.001	3.50 3.59 Zr mg/kg <0.020 0.020 0.020 0.020		
D E Sample Id Det Limit A 3 C C	18942 18943 18944 Sample Number 18940 18940 18941 18942 18943	0.002 0.002 0.001 2n mg/l <0.001 0.158 0.219 0.199 0.146	0.040 0.020 Zn mg/kg <0.020 3.15 4.38 3.98 2.92	0.175 0.179 Zr mg/l <0.001 0.001 0.001 0.001 <0.001	3.50 3.59 Zr mg/kg <0.020 0.020 0.020 0.020 <0.020 <0.020		
D E Sample Id Det Limit A B C C D E	18942 18943 18944 Sample Number 18940 18940 18941 18942 18943 18944	0.002 0.002 0.001 2n mg/l <0.001 0.158 0.219 0.199 0.146 0.293	0.040 0.020 Zn mg/kg <0.020 3.15 4.38 3.98 2.92 5.86	0.175 0.179 Zr mg/l <0.001 0.001 0.001 0.001 <0.001 <0.001	3.50 3.59 Zr mg/kg <0.020 0.020 0.020 0.020 <0.020 <0.020 <0.020		



Appendix B: Leachate result classification

									Result	s for ch	nemical	s that ar	e of hea	lth sign	ificance	e in drin	king-wa	ter											
Parameter	pН	Total Alk	F	CI	NO3 as N	SO4	AI	As	B*	Ba*	Ca	Cd	Co	Cr	Cu	Fe	Hg	к	Mg	Mn	Mo*	Na	Ni	Pb	Sb	Se	V	Zn	U*
Unit	-	mg/I CaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Class 1																													
(recommend																													
ed limit)	5 - 9.5	N/A	1	200	10	400	0.3	0.01			150	0.0050	0.5	0.1	1	0.2	0.001	50	70	0.1		200	0.15	0.02	0.01	0.02	0.2	5	
Class 2 (max allowed for limited duration)	4 - 5 / 9.5 - 10	N/A	1.5	600	20	600	0.5	0.05			300	0.0100	1	0.5	2	2	0.005	100	100	1		400	0.35	0.05	0.05	0.05	0.5	10	
Class 3 (not																													
recommende																													
d for																													
consumtion)	<4 / >10	N/A	>1.5	>600	>20	>600	>0.5	>0.05	0.5	0.7	>300	>0.01	>1	>0.5	>2	>2	>0.005	>100	>100	>1	0.07	>400	>0.35	>0.05	>0.05	>0.05	>0.5	>10	0.015
A	12.2	790	0.6	<5	<0.2	22	3.0	0.001	2.6	3.0	322	0.0002	< 0.001	0.25	< 0.001	< 0.01	0.0006	0.15	< 0.01	<0.001	0.06	1.27	0.024	< 0.001	0.002	0.042	0.01	<0.001	< 0.0001
В	12.1	612	0.5	<5	<0.2	31	4.5	0.001	2.6	2.2	282	0.0002	< 0.001	0.36	< 0.001	< 0.01	0.0007	0.17	< 0.01	<0.001	0.07	1.47	< 0.001	< 0.001	0.002	0.072	0.02	<0.001	< 0.0001
С	12.3	1020	1	<5	<0.2	9	0.7	0.002	0.4	4.0	440	0.0002	< 0.001	0.18	< 0.001	< 0.01	0.0005	0.16	< 0.01	0.01	0.05	1.61	< 0.001	< 0.001	0.001	0.014	0.01	<0.001	< 0.0001
D	12.4	1368	0.7	<5	<0.2	<5	0.5	0.001	0.1	11.0	560	0.0001	< 0.001	0.06	< 0.001	< 0.01	0.0002	0.10	< 0.01	< 0.001	0.03	1.54	< 0.001	< 0.001	0.001	0.025	0.004	<0.001	< 0.0001
E	12.2	732	0.8	<5	<0.2	23	2.1	0.001	2.0	3.9	327	0.0001	< 0.001	0.11	< 0.001	< 0.01	0.0006	0.04	< 0.01	< 0.001	0.05	2.04	< 0.001	< 0.001	0.002	0.045	0.01	< 0.001	< 0.0001
AWS	11.4	136	0.6	8	<0.2	22	3.6	0.003	1.4	0.4	65	0.0001	< 0.001	0.09	< 0.001	< 0.01	0.0003	0.43	< 0.01	0.01	0.03	6.12	< 0.001	< 0.001	0.004	0.009	0.14	< 0.001	0.0003
Average	12.1	776	1	8	<0.2	21	2.4	0.002	1.5	4.1	333	0.0002	<0.001	0.18	<0.001	<0.01	0.0005	0.18	<0.01	0.01	0.05	2	0.024	<0.001	0.002	0.035	0.03	<0.001	0.0003

Distilled water leach results compared to Drinking water guidelines

									Res	ults for	chemic	als that	are not	of healt	h signif	icance i	n drinkir	ng-wate	er											
Parameter	Ag	Au	Be	Bi	Ce	Cs	Ga	Ge	Hf	Но	lr	La	Li	Nb	Nd	Pt	Rb	Sc	Si	Sn	Sr	Та	Те	Th	Ti	TI	w	Y	Zr	Р
Unit	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Α	< 0.001	<0.001	< 0.001	< 0.001	<0.001	0.001	0.07761	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.3	<0.001	< 0.001	< 0.001	0.002	0.001	1.54	< 0.001	3.52844	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.04282	< 0.001	< 0.001	< 0.025
В	< 0.001	<0.001	<0.001	< 0.001	<0.001	0.001	0.10324	< 0.001	<0.001	< 0.001	<0.001	<0.001	0.37	<0.001	< 0.001	< 0.001	0.002	0.001	2.04	<0.001	2.83379	<0.001	<0.001	< 0.0001	< 0.05	< 0.001	0.0523	< 0.001	<0.001	<0.025
С	< 0.001	<0.001	< 0.001	< 0.001	<0.001	0.001	0.05611	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.33	< 0.001	< 0.001	< 0.001	0.002	< 0.001	0.95	< 0.001	4.42868	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.03361	< 0.001	< 0.001	< 0.025
D	0.001	<0.001	<0.001	< 0.001	<0.001	0.001	0.04159	< 0.001	<0.001	< 0.001	<0.001	<0.001	0.26	<0.001	< 0.001	< 0.001	0.002	< 0.001	0.54	<0.001	5.48622	<0.001	<0.001	< 0.0001	< 0.05	< 0.001	0.01705	< 0.001	<0.001	<0.025
E	< 0.001	<0.001	< 0.001	< 0.001	<0.001	0.001	0.08177	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.37	<0.001	< 0.001	< 0.001	0.002	< 0.001	1.73	< 0.001	3.69389	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.04066	< 0.001	<0.001	< 0.025
AWS	< 0.001	<0.001	< 0.001	< 0.001	<0.001	< 0.001	0.02814	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.07	<0.001	< 0.001	< 0.001	0.002	0.005	7.09	<0.001	0.81868	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.02342	<0.001	<0.001	< 0.025

TCLP results compared to Drinking water guidelines

									Res	sults fo	r chemi	cals that a	are of h	nealth si	gnificance	e in drir	nking-wa	ater											
Parameter	pН	Total Alk	F	CI	NO3 as N	SO4	AI	As	B*	Ba*	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Mg	Mn	Mo*	Na	Ni	Pb	Sb	Se	V	Zn	U*
Unit	-	mg/l CaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Class 1																													
(recommended																													1
limit)	5 - 9.5	N/A	1	200	10	400	0.3	0.01			150	0.0050	0.5	0.1	1	0.2	0.001	50	70	0.1		200	0.15	0.02	0.01	0.02	0.2	5	1
Class 2 (max																													1
allowed for																													1
limited duration)	4 - 5 / 9.5 - 10	N/A	1.5	600	20	600	0.5	0.05			300	0.0100	1	0.5	2	2	0.005	100	100	1		400	0.35	0.05	0.05	0.05	0.5	10	1
Class 3 (not																													1
recommended																													1
for consumtion)	<4 / >10	N/A	>1.5	>600	>20	>600	>0.5	>0.05	0.5	0.7	>300	>0.01	>1	>0.5	>2	>2	>0.005	>100	>100	>1	0.07	>400	>0.35	>0.05	>0.05	>0.05	>0.5	>10	0.015
Α	4.7	600	0.4	<5	< 0.2	94	18	0.023	7.2	1.6	998	0.002	0.012	0.50	0.043	0.6	0.0002	0.45	43.1	1.18	0.020	1.98	0.028	< 0.001	0.015	0.029	0.30	0.2	0.018
В	4.7	564	0.3	<5	< 0.2	109	25	0.027	8.9	1.5	1000	0.003	0.013	0.59	0.031	0.8	0.0002	0.52	37.5	1.26	0.019	2.56	0.023	0.002	0.016	0.035	0.32	0.2	0.022
С	4.8	1000	0.4	5	<0.2	118	15	0.022	8.9	1.3	1140	0.003	0.014	0.48	0.022	0.4	0.0001	0.60	53.7	1.38	0.029	2.84	0.025	< 0.001	0.016	0.018	0.39	0.2	0.018
D	5.1	1776	0.8	7	< 0.2	81	8	0.010	6.2	1.8	1400	0.002	0.013	0.23	< 0.001	0.2	0.0001	0.46	60.3	1.58	0.027	2.74	0.016	< 0.001	0.010	0.021	0.13	0.1	0.009
E	4.7	720	0.4	<5	<0.2	95	12	0.026	6.7	1.7	1010	0.004	0.011	0.28	0.020	0.3	0.0001	0.65	53.2	1.56	0.014	2.98	0.012	0.004	0.016	0.060	0.31	0.3	0.007
Average	4.8	932	0.46	6	<0.2	99.4	16	0.021	7.6	1.6	1109.6	0.003	0.013	0.42	0.029	0.5	0.0001	0.54	49.56	1.39	0.022	2.62	0.021	0.003	0.015	0.03	0.29	0.2	0.015

									Re	esults fo	or chem	icals that	are no	ot of hea	lth signific	ance ir	n drinkin	g-water												
Parameter	Ag	Au	Be	Bi	Ce	Cs	Ga	Ge	Hf	Но	lr	La	Li	Nb	Nd	Pt	Rb	Sc	Si	Sn	Sr	Та	Те	Th	Ti	TI	W	Y	Zr	Ρ
Unit	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l ı	ng/l
Α	< 0.001	<0.001	0.006	< 0.001	0.082215	0.001	0.006	0.2056	< 0.001	0.007	< 0.001	0.08163	0.4	< 0.001	0.09544	<0.001	0.004	0.07957	92.39	< 0.001	7.591487	< 0.001	0.007	0.0002	0.0292	< 0.001	0.001	0.20917	0.001	0.3
В	< 0.001	< 0.001	0.008	< 0.001	0.10458	0.001	0.01	0.25041	< 0.001	0.008	< 0.001	0.09816	0.51	< 0.001	0.10871	<0.001	0.005	0.08756	103.89	< 0.001	7.176271	< 0.001	0.008	0.0003	0.04156	< 0.001	0.002	0.22996	0.001	0.4
C	< 0.001	<0.001	0.006	< 0.001	0.072592	0.001	0.005	0.22994	< 0.001	0.006	< 0.001	0.07905	0.53	< 0.001	0.09574	<0.001	0.005	0.07751	93.49	< 0.001	9.586995	< 0.001	0.007	0.0002	0.02182	< 0.001	0.002	0.20108	0.001	0.3
D	< 0.001	<0.001	0.004	< 0.001	0.060197	0.001	0.003	0.14865	< 0.001	0.005	< 0.001	0.06432	0.41	< 0.001	0.08297	<0.001	0.004	0.05888	75.59	< 0.001	13.0024	< 0.001	0.003	0.0001	0.01383	< 0.001	0.002	0.17511	<0.001	0.2
E	< 0.001	<0.001	0.005	< 0.001	0.078231	0.001	0.003	0.21363	< 0.001	0.006	< 0.001	0.06878	0.49	< 0.001	0.08124	<0.001	0.005	0.07525	91.69	< 0.001	8.301456	< 0.001	0.007	0.0001	0.01534	< 0.001	0.001	0.17942	<0.001	0.3



GEOCHEMICAL ASH BACKFILL AND WASTE CLASSIFICATION STUDY

SASOL SIGMA COLLIERY

14 JANUARY 2014

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LIST OF ABBREVIATIONS

Abbreviation	Description
ABA	Acid-Base Accounting
Alk	Alkalinity
AMD	Acid Mine Drainage
AP	Acid Potential
ARL	Acceptable Risk Level
DEA	Department of Environmental Affairs
DW	Distilled Water
DWA	Department of Water Affairs
DWAF	Department of Water Affairs and Forestry
EC	Electrical Conductivity
LC	Leachable Concentration
LCT	Leachable Concentrations Threshold
mg/kg	milligram per kilogram
mg/l	milligram per litre
NAG	Nett Acid Generation
NNP	Nett Neutralising Potential
NP	Neutralising Potential
NPR	Neutralising Potential Ratio
ppb	parts per billion
ppm	parts per million
SANS	South African National Standards
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
ТСТ	Total Concentrations Threshold
TDS	Total Dissolved Solids
WHO	World Health Organisation
XRD	X-Ray Diffraction
XRF	X-Ray Florescence



EXECUTIVE SUMMARY

Digby Wells Environmental (hereafter Digby Wells) has been appointed by Sasol Sigma Colliery (hereafter Sasol) to conduct various specialist studies and investigation to form part of an Environmental Impact Study (EIA) for the licencing and feasibility of backfilling the Sigma underground colliery with ash produced from the processing of coal.

This report and the various components of it forms part of the geochemical and waste classification study to evaluate the impacts of the backfilling may have on the regional water quality as well as to class the waste to motivate for the alternative ash management activity.

For the purpose of characterising the ash material both in a geochemical and waste classification criteria samples were taken over a period of 1 week. Both wet and dry ash samples were taken with the following methodology:

- Three (3) samples per day (1 kg each) of dry ash just after the burning process for a period of 5 days (15 kg in total);
- One (1) sample per day (2 Litre sample 20% ash/80% water) from the ash slurry stream just before it enters the pump house over a period of 5 days

The sampling run ensures that all the samples were taken at locations and periods to ensure that the data received from the test results are representative of the ash material.

The samples were sent to the Water Lab (Pty) Ltd were accredited methods were used to prepare and analyses the samples. The samples were prepared as follows:

- The dry ash samples were:
 - The 3 samples from each day were combined to form 5 batches of 3 kg samples representative of each day;
 - The sample for each day was then split into 5 smaller batches for the various tests; and
 - The dry samples from each day labelled A, B, C, D, and E was then sent for Acid-Base Accounting (ABA), Nett Acid Generation (NAG), X-ray diffraction (XRD), X-ray florescence (XRF), Toxicity Characteristic Leachate Procedures (TCLP) and Distilled water (DW) leachate tests.
- The wet ash sample was:
 - The 5 samples were combined and allowed to settle after which the solid and liquid phases were separated;
 - The liquid phase was tested for macro and micro elements to determine the characteristics of the ash water; and
 - The solid phase was labelled AWS and sent for Distilled Water (DW) leachate tests to serve as input into the waste classification.

The purpose of this environmental geochemical evaluation and waste classification is to determine the environmental risks associated with using ash as backfill material. The



preferred waste management activity proposed and currently being investigated by Sasol Sigma is to use the waste material (ash) as backfill material to fill old mine voids currently labelled with a high risk of subsidence.

The ash material will be pumped in the form of slurry (consisting of 20% ash and 80% water) into areas at risk of subsidence via purposely drilled boreholes after which excess water will be removed through dewatering boreholes and reused. The ash material will then be left to settle and solidify.

Ash material has a very low permeability and hydraulic conductivity and will act as an aquitard once it has settled and compacted; leading to little or no groundwater movement through the newly formed layers. The aquitard/aquiclude nature of the ash material will be favourable as it will not allow leachate to travel down or sideways into the receiving groundwater or surface water systems. In theory any leachable elements will be in small quantities and be easily diluted under natural conditions. The feasibility and potential risk of the ash backfilling methodology proposed will thus be determined in this study through various geochemical tests and evaluations.

Furthermore, the waste classification of the ash material will feed into the licencing and motivation from Sasol to use and licence the backfilling of the ash into the old mine voids as a feasible alternative management activity.

The following conclusions have been reached through the study explained above:

Geochemical evaluation

- The ash mineralogy is dominated by quartz and mullite with large percentages of amorphous material and trace element inclusions;
- The ash material has a high NNP and will allow for the buffering of any acidic environments;
- In the DW tests the main elements of concern leaching out is B, Ba, Ca, Se, Al and Cr. These elements should be monitored in all phases of the project on a monthly basis;
- The ash water sampled showed that the mixing of the slurry water and ash allows for the solution of Al, B, Se, Cr and Ca into the ash water and removing some of the elements of concern before it reaches the pump house; and
- Although some elements do leach out in significant concentrations in the DW tests and can pose an environmental health risk, the low permeability and hydraulic conductivity of the ash material will result in a small amount of seepage through the system once it has been deposited in the mine voids. It can be assumed that any small amount of leachable ions from the ash will be diluted to acceptable levels once it comes into contact with groundwater or surface water at the decant positions.



Waste Classification

Based on the classification of the Distilled/Reagent water leachate test results against the relevant TCT and LCT limits as given in the legislative guidelines for waste classification (DEA 2013a), the ash to be used as backfill can be classified as follows:

- For boron (B) the results show that LCT0<LC<LCT1 and TC<TCT0;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste;

The following recommendations are made by Digby Wells based on the outcome of the study reported in this document:

The following recommendations are made by Digby Wells based on the outcome of this study:

- In the DW tests the main elements of concern leaching out are B, Ba, Ca, Se, Al and Cr. These elements should be monitored in all phases of the project on a monthly basis;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste; however
 - Based on the low concentrations of the leachable ions (although they are above TCT0 and LCT0 in certain cases), the low NAG and the high NNP (section 3.2.3) it is concluded that the alternative waste management activity of using the ash material for backfilling of the mine voids at Sigma Colliery is feasible and a motivation to the authorities for this activity to be licenced is recommended.
 - The low permeability and hydraulic conductivity of ash will allow little to no seepage through the newly formed ash layers once allowed to settle and thus the environmental concentration of contaminants entering the receiving environment will be low and easily diluted through natural processes.
- If the waste management activity of backfilling the mine voids is not pursued the waste should be disposed of at a Class C Landfill.
- Previous limits and target water quality conditions in the water licence granted for the ash backfilling in Licence #20021165 was well set and achievable. It is recommended that these conditions are kept and monitoring should ensure that the target water quality standards are achieved.



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Appendix A: Laboratory certificates

Appendix B: Leachate result classification



1 INTRODUCTION

Digby Wells Environmental (hereafter Digby Wells) was appointed by Sasol Sigma Colliery (hereafter Sigma) to conduct various specialist studies as part of an Environmental Impact Assessment (EIA) for the licencing and feasibility of backfilling the Sigma underground colliery with ash produced from the processing of coal at Infrachem. Ash is currently produced from the coal through burning processes at Infrachem and is then fed into the ash slurry stream after mixing with water to produce the slurry. Currently Sasol labels the ash produced from the coal burning process as a by-product and not a waste.

The ash backfilling process being studied and proposed as an environmental management option is of importance due to its effective management of the subsidence currently taking place in certain mined out areas and can potentially occur in the areas where backfilling has not yet been done. The ash backfilling process is thus an important step in managing and addressing the risk of surface subsidence in the Sigma Colliery project area.

Previously under the Water Licence (Licence # 20021165) granted to Sasol Sigma, ash backfilling was attempted with continuous and frequent monitoring of both surface water and groundwater qualities and levels. These results have shown that the overall water quality in the project has improved since the start of the backfilling and has met all licence conditions set for water quality. Based on this historical data backfilling is feasible and thus a new licence is being applied for.

This report forms part of the geochemical and waste classification study to evaluate the potential impacts that the backfilling may have on the regional water quality, as well as to classify the ash as part of the motivation for this environmental management activity.

This report only refers to geochemistry and waste classification and no in depth discussions of tests, monitoring data, models and outcomes of studies referring to the groundwater study is made and will form part of the Geohydrological Assessment report as an appendix.

1.1 Study Purpose

The purpose of the study is to determine the environmental geochemical risks associated with backfilling underground mine voids with ash produced from Sasol processes at Infrachem and to determine the waste type and classification of the material for the licencing for this proposed ash management activity.

1.2 Deliverables

The following deliverables form part of this study:

- Technical report that includes:
 - Geochemical laboratory results and interpretations;
 - Geochemical evaluation and identification of potential environmental impacts of the backfilling activity;



- Classification of the ash material as per waste classification procedures; and
- Recommendations relating to possible mitigation measures and water management.

1.3 Scope of Work and Methodology

1.3.1 Sampling of Ash Material

For the purpose of characterising the waste material according to geochemical and waste classification criteria samples were taken over a period of one week. Both wet and dry ash samples were taken according to the following methodology:

- Three dry ash samples per day (1 kg each); sampled just after the burning process for a period of 5 days (15 kg in total); and
- One sample per day (2 litre samples 20% ash / 80% water) from the ash slurry stream just before it enters the pump house over a period of 5 days.

This sampling protocol ensures that all the samples were taken at locations and time frames in line with authority requirements and to ensure that the data received from the test results are representative of the ash material.

1.3.2 Laboratory tests

All samples were sent to Waterlab (Pty) Ltd where accredited methods were used to prepare and analyse the samples. The samples were prepared as follows:

- The dry ash samples:
 - The three samples from each day's sampling run were combined to form 5 batches of 3 kg samples, representative of each day;
 - The sample for each day was then split into 5 smaller batches for the various tests; and
 - The dry samples from each day labelled A, B, C, D, and E was then sent for Acid-Base Accounting (ABA), Nett Acid Generation (NAG), X-ray diffraction (XRD), X-ray florescence (XRF), and Toxicity Characteristic Leachate Procedures (TCLP) and Distilled Water (DW) leachate tests.
- The wet ash sample:
 - The 5 samples were combined and allowed to settle after which the solid and liquid phases were separated;
 - The liquid phase was tested for macro and micro elements to determine the characteristics of the ash water; and
 - The solid phase was labelled AWS and sent for Distilled Water (DW) leachate tests to serve as input into the waste classification.



1.3.3 Result interpretations

The results of the laboratory tests were assessed against various guidelines from the US EPA, WHO, SANS Drinking water standards and the guidelines as set out in the National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008) to determine the potential environmental and human risks, as well as to determine the waste type and classification of the ash material.

Along with the evaluation of the results against various standards, the mineralogy and chemical composition of the ash was interpreted to understand where any possible contamination can originate from.

1.3.4 Technical reporting

A technical report was compiled summarising all results and interpretations, as well as listing recommendations and possible mitigation measures. The waste classification report also serves as input into a motivation for the licencing of the ash, as well as the ash management activity of backfilling the mine voids.

2 SITE DESCRIPTION

Sigma Colliery is situated in the Free State Province, adjacent to the town of Sasolburg. In the north, it borders on the Vaal River, just above the barrage. It comprises of the main Sigma Underground Colliery, and the Wonderwater Strip Mine and Mohlolo Underground Colliery next to the Vaal River.

2.1 Climate

The area has a temperate climate characterised by warm summers and cold winters. Average annual rainfall is 658 mm and occurs mainly during summer months. Average daily temperatures vary between 8.9°C in June to 21.7°C in January. The climate is typically a cool temperate Highveld climate characterised by a cool to warm summers and cold winters. Rainfall is recorded at the Sasol Infrachem rainfall station, which indicates that the rainfall occurs in summer months (October to March).

2.2 Topography and Drainage

Sigma Colliery lies in the quaternary catchment C22K. The general topography of can be described as undulating and sloping towards the Vaal River. The DEM and slope model indicated that mining activities have significantly altered the topography and surface water flow in the north and east.

Four rivers and stream drain the area. The main system is the Vaal River to the north. The Taaibospruit drains the area to the east of Sasolburg and has no influence on the Colliery. Two gradual valleys, carrying the Leeuspruit and Rietspruit, run parallel to each other in a south-east north-west direction towards Vaal River. The Leeuspruit and the Rietspruit overly the Colliery, and have an influence on the mine, especially in areas of subsidence.



Elevation within these river valleys varies from around 1430 m at the valley bottoms to 1490 m at the valley tops. Slopes are mostly flat across the landscape except for isolated pockets of steeper slopes along the banks of the Vaal River and where mining activities have taken place. Years of underground Mining at the Sigma Colliery has resulted in large subsided areas with the potential of further subsidence occurring in the future. Ash backfilling along the R59 near Sasolburg has yielded positive results in stabilising the topography.

2.3 Geology of the Study Area

Sigma Colliery lies in the Sasolburg-Vereeniging Coalfield. The stratigraphy of the coalfield is typical of the coal-bearing margins of the Karoo Sequence. The succession consists of pre-Karoo rocks (dolomites of the Chuniespoort Group of the Transvaal Sequence) overlain by the Dwyka Formation (2-15 m thickness), followed by the Ecca Group sediments, of which the Vryheid Formation is the coal-bearing horizon. Mainly the lava of the Ventersdorp and Hekpoort Groups underlie the coal.

The Vryheid Formation contains four major coal seams. These seams are named from 1 at the base, 2A and 2B in the centre, and 3 being the topmost seam. The seams mined at Sigma Colliery are the No 3-seam, and the No 2 A and B seams, which for the purpose of this report, will be treated as one seam. The coal seam dips from north to south. The depth of the coal seam ranges from 150 m deep in the south, to 55 m at Wonderwater

Dolerite intrusions in the form of dykes and sills are present over the entire coalfield and are responsible for structural complications. At Sigma Colliery the central and southern sections are intruded by dolerite sills

3 PREFERED ASH MANAGEMENT ACTIVITY AND OBJECTIVES

The purpose of this environmental geochemical evaluation and waste classification is to determine the environmental risks associated with using ash as backfill material. The preferred waste management activity proposed and currently being investigated by Sasol Sigma is the use the ash material as backfill material to fill old mine voids currently labelled with a high risk of subsidence.

The ash material will be pumped in the form of slurry (consisting of 20% ash and 80% water) into areas at risk of subsidence via purposely drilled boreholes after which excess water will be removed through dewatering boreholes and reused. The ash material will then be left to settle and solidify.

Ash material has a very low permeability and hydraulic conductivity and will act as an aquitard once it has settled and compacted; leading to little or no groundwater movement through the newly formed layers. The aquitard/aquiclude nature of the ash material will be favourable as it will not allow leachate to travel down or sideways into the receiving groundwater or surface water systems. In theory any leachable elements will be in small quantities and be easily diluted under natural conditions. The feasibility and potential risk of the ash backfilling methodology proposed will thus be determined in this study through various geochemical tests and evaluations.



Furthermore, the waste classification of the ash material will feed into the licencing and motivation from Sasol to use and licence the backfilling of the ash into the old mine voids as a feasible alternative waste management activity.

Previously ash backfilling has been done under the a water licence (Licence 20021165) with certain water quality objectives set that should be adhered to. Since the start of the project the water quality of the monitoring network and project area has improved and all objectives have been reached. Thus based on past processes and monitoring the backfilling of mine voids at Sasol Sigma Colliery is feasible.



4 GEOCHEMICAL EVALUATION

4.1 Laboratory Test Descriptions and Purpose

4.1.1 XRD and XRF

XRF is an X-ray method used to determine the elemental composition of a material that allows for the evaluation of a materials chemical compound distribution, as well as the various trace element concentrations. XRD allows for the measurement of the crystal structures within a sample to determine the mineralogical composition of the material that allows the specialist to determine whether any reactive solids will lead to environmental risks through the study of the various minerals.

4.1.2 ABA and NAG

The Acid-Base Accounting (ABA) procedure measures the acid- and alkaline-producing potential of the ash in order to determine if, after disturbance, the waste material will produce acid and subsequently leach metals. This procedure includes NAG tests that evaluate the Net Acid Generation and neutralising potential of the material to also evaluate the potential of the material to counter acid production.

4.1.3 Leachate Tests and Total Element Analysis

The Distilled/Reagent water leachate (DW) tests are done to simulate the heavy metal and anion leachate potential of soils, waste material and waste water left in-situ under normal conditions with only neutral water allowing leaching to occur. These tests will simulate and evaluate the potential of any heavy metal or ion contamination from the waste material that will be produced by the plant and used in the backfilling of the mine voids. The distilled/reagent water tests are used to evaluate the leachabality of material that will be mono-disposed.

Furthermore, Toxicity Characteristic Leachate Procedure (TCLP) tests were done to evaluate a worst case scenario where the ash material will come into contact with acidic conditions. The TCLP test results were only used in simulating worst case scenario concentrations in the numerical groundwater model and mass transport models (see Geohydrological Specialist Report for the results and use thereof)

4.1.4 Water analysis

The ash slurry that will be used in the backfilling process is a mixture of 20% ash and 80% water. The solid (ash) and liquid (water) phases separates completely within an hour and this water was separated from the slurry sample before leachate tests were conducted on the ash to determine the hydrochemical characteristics of the water used in the pumping process. This water analysed will enter the mine voids with the ash after which it will then again be abstracted from the system to allow the ash to settle and compact into the solid phase that is needed to fill the voids.



The water analysis was thus done to evaluate how much of the contaminants can potentially be separated by the backfilling process and thus allowing the elimination of hazardous compounds from the system in the planned processes. The water analysis also gives an indication of any organic contaminants that can be expected to form part of the backfilling material.

The water phase was later again combined with the total concentrations and leachate concentrations of the ash slurries solid phase.

4.2 Test Results and Interpretations

All laboratory results and certificates are shown in Appendix A.

4.2.1 XRF Results of Dry Ash Material

The major oxides accounting for the make-up of the dry ash material, as observed in the mineralogy of the XRD results, are shown in the XRF summary in Table 1. During the ignition of the XRF tests there was an average loss of 4.8% of the material.

From the XRF results it is observed that the distribution of metals and ions in various bonds with oxide is typical of the amorphous and inert nature of ash. The major compounds in the material are SiO₂, Al₂O₃ with smaller amounts of TiO₂, Fe₂O₃ and CaO. The source of CaO is the lime dosage of the coal before burning with calcite; also a mineral associated with the coal formations. TiO₂ and Fe₂O₃ are two metal oxides also associated with the mineralogy of the coal material burned to produce the ash. The metal distribution in the ash material is most probably included in the amorphous crystals in traces and various other combinations, with the Fe and Ti concentrations associated with the coal mineralogy for example pyrite and pyrrhotite.

 SiO_2 and Al_2O_3 , as observed in the mineralogy of the ash, are associated with the silicate minerals of the coal material which is burned to form new secondary silicate and aluminium silicate minerals. The ions most likely to leach from the distribution observed in the XRF results are Ca, Al and Fe.

From the XRF results trace element distributions were also determined for the ash material. These results are shown in Table 2 and also compared to average continental crust distributions. Although this is not a true comparison it does indicate the higher concentration of certain elements that observed in the crust of the earth due to the combustion of some elements and thus the enrichment of others. It should be noted that this is however no reflection or classification of the quality of the ash material. In most cases the trace element concentrations in the ash is higher than crustal averages. This is most probably due to the concentrated nature of the material after burning, allowing the increase (proportional) of some elements and the decrease of others.

The alkaline nature of the ash is however helpful in allowing any acid that can potentially form to be neutralised and this in turn allows for metal dissolution and leachabality decreasing. However some elements that can potentially leach out based on the trace element distributions are As, Ba and Sr.



The potential risk of metals leaching from the ash is dependent on the acid producing potential of the ash, which in theory should be very low. This will however be determined by the ABA and NAG results to be discussed in section 3.2.3.

	Major Element Concentration (wt %)						
Compound	Α	В	С	D	ш	AWS	
SiO2	49.12	48.3	46.87	61.01	48.49	45.96	
TiO2	2.54	2.56	2.54	1.68	2.36	2.46	
AI2O3	32.53	32.47	33.21	24.65	31.15	31.43	
Fe2O3	3.23	3.18	3.3	2.62	3.06	3.23	
MnO	0.04	0.05	0.05	0.04	0.05	0.05	
MgO	0.59	0.67	0.75	0.52	0.73	0.92	
CaO	6.16	6.35	6.65	0.65	5.78	6.32	
Na2O	0.63	0.78	0.87	0.3	0.79	1.05	
K2O	0.67	0.69	0.72	1.81	0.7	0.88	
P2O5	0.14	0.15	0.15	0.08	0.15	0.14	
Cr2O3	0.05	0.05	0.05	0.04	0.05	0.04	
SO3	0.1	0.26	0.14	0.11	0.36	0.12	
LOI	3.72	4.06	4.18	6.22	5.86	6.9	
Total	99.52	99.57	99.48	99.73	99.53	99.5	
H2O-	0.04	0.08	0.2	0.47	0.13	0.55	

Table 1: Dry sample XRF results

Table 2: Distribution of selected trace elements

		Sample ID with elemental distribution in ppm						
Element	Upper continental crust	А	В	С	D	Е	AWS	
As	1.5	23.5	21.8	25.9	<1.00	20.6	16.9	
Ва	550	812	846	897	479	828	873	
Bi	1.27	<1.00	<1.00	<1.00	<1.00	<1.00	1.32	
Cd	98	1.84	<5.00	<5.00	<5.00	<5.00	<5.00	
Ce	64	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Со	17	12.7	32.5	53.9	<5.00	42.7	66.3	
Cs	4.8	<1.00	<1.00	1.49	<1.00	<1.00	2.18	
Cu	25	84.7	71	78	23.7	72.8	73.4	
Ga	17	72	74.4	76.4	21	64.5	67.7	
Ge	1.6	15.8	14	18.5	4.09	13.2	15.2	
Hf	5.8	8.68	8.88	9.02	14.9	8.71	8.52	
Hg	9	1.6	1.65	1.73	<5.00	1.37	1.48	
La	30	103	66.2	92.2	15.1	69.7	70.5	
Lu	0.32	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Мо	1.5	13.9	11.3	13.1	10.8	12.2	10.9	
Nb	12.5	53.7	54.1	53.1	19.1	49	53.2	
Nd	26	80.3	83.5	70.9	65.2	62.5	82.1	
Ni	50	75.5	74.2	80.7	52.9	74	70	
Pb	16	111	133	128	20.1	103	85.3	
Rb	112	32.9	35.8	36.2	59.9	33.9	38.8	
Sb	0.2	<5.00	3.39	<1.00	3.12	3.66	<5.00	
Sc	13	18.6	16.6	21	12.6	18.8	20.3	
Se	50	<1.00	<5.00	<1.00	<5.00	<1.00	<1.00	



		Sample ID with elemental distribution in ppm						
Element	Upper continental crust	Α	В	С	D	Е	AWS	
Sm	4.5	17.9	16.4	17.1	12.6	17.2	17.4	
Sn	5.5	1.76	2.89	1.56	4.78	2.49	8.15	
Sr	350	905	887	1128	161	1063	1409	
Та	1.1	3.27	3.57	5.17	3.27	2.66	3.9	
Th	10.7	56	60.9	58.7	29.9	53.4	57.1	
ТІ	0.75	2.21	1.95	1.26	<1.00	1.74	2.59	
U	2.8	15	16.2	17.2	4.63	16.6	18.6	
V	110	281	290	304	74.9	282	250	
W	2	5.16	5.12	4.93	4.93	4.95	5.31	
Υ	22	107	112	110	26.5	104	120	
Yb	2.2	26.7	25	25.9	18.8	24.3	26.6	
Zn	71	95.6	94.4	115	111	63.5	47.2	
Zr	190	733	739	718	967	673	743	

4.2.2 XRF Results of Ash Slurry

The wet ash sample or ash slurry sample was separated from the water phase and also sent for all tests to evaluate and compare the results and to determine whether the water/ash mixture does significantly change or alter the quality of the ash. The slurry solids (sample AWS) is also shown in Table 1 and Table 2.

The comparison with the dry ash XRF results and trace element distribution indicates the mixture of the ash does not have a significant effect on the main mineralogy and elemental content of the ash that will be deposited. The proportional distribution of most of the elements and compounds remain the same. In some cases the trace element and major compound content is lower due to some elements going into solution and in other cases the concentrations where slightly higher due to possible precipitation of elements enriched in the water used to produce the slurry.

The source of the trace elements and compounds remain the same as discussed in section 4.2.1. The main parameters that can potentially leach out from the ash material are Ca, Al, Fe, As, Br and Sr. However as also mentioned in the previous section the mobility and potential release of these elements into solution is highly dependent on the acid producing potential of the ash.

4.2.3 XRD Results of Dry Ash Material

The XRF and trace element results discussed in section 4.2.1 and 4.2.2 (in combination) forms the ash mineralogy as shown in the XRD results (Table 3). The dry ash mineralogy is dominated by amorphous material, mullite and quartz. The amorphous material is glass like crystals with no definite crystal structure and will mostly be made up of SiO_2 in combination with various other trace elements. The trace elements within the unstructured mineralogy of the amorphous material will be reactive based on the pH trends of the system it is introduced to. However, due to the unstructured bonds reactive metals like B, Ba, Mn, Mg and other



metals like As can easily be released into a system as various aqueous species dependent on the physical chemical characteristics of the receiving environment.

The high AI_2O_3 and SiO_2 content observed in the XRF results combine to form the quartz and mullite mineralogy. The high CaO content is from the calcite and lime mineralogy.

The mullite, lime and calcite content of the ash will result in high concentrations of Al and Ca leaching out and will be confirmed with the leachate tests. Furthermore Mn, Mg, B, Ba, nickel (Ni) and arsenic (As) can be expected to leach out in acidic environments, but will have to be confirmed with the leachate results.

Mineral	Α	В	С	D	E	AWS	
Willera	(weight %)						
Amorphous	53.55	58.08	55.83	75.55	55.43	-	
Lime	0.83	0.67	0.52	0.36	1.08	-	
Calcite	0.12	0.04	-	0.1	-	5.33	
Mullite	38.51	36.07	38.06	6.28	35.65	81.81	
Quartz	6.98	5.14	5.6	17.7	7.84	12.85	
Total	100.0	100.0	100.0	100.0	100.0	100.0	

Table 3: XRD analysis results summary

4.2.4 XRD Results of Ash Slurry

The XRD results of the solid ash phase from the slurry sample AWS also shown in Table 3 is compared to the dry ash samples. Sample AWS is dominated by mullite with calcite and quartz making up the rest of the sample. No amorphous material and lime was picked up in the slurry analysis. This could be due to the solution of these minerals into the transport water that is mixed with the dry ash. Although some minerals have fallen away the main mineralogy stays intact.

The main elements that can potentially leach out into solution from the slurry sample however remains Ni, As, Mn, Mg, B and Ba. Metal leachabality can potentially be lower due to the absence of the amorphous material.

4.2.5 ABA and NAG Results – Dry Ash

From the ABA and NAG results in Table 4 and Table 5 the following can be concluded:

- The paste pH of the ash material is highly alkaline with all total sulphur % below the acid producing limit of 0.25 %S proposed by the US EPA;
- For sustainable long-term acid generation, at least 0.3% Sulphide-S is needed.
 Values below this can yield acidity, but it is likely to be only of short-term significance;
- The low sulphur content and alkaline nature of the ash allows for a big difference between the Acid Potential (AP) and Neutralising Potential (NP), resulting in a Nett Neutralising Potential (NNP) of well above 0 for all samples;



- The high NNP and NAG of the samples allow for the ash to be classified as a type III rock/material non-acid forming; and
- Based on the non-acid forming nature of the ash the potential metal contamination and leachabality is low.

Table 4: ABA results summary for dry ash

Acid – Base Accounting			Sample Identification			
Modified Sobek (EPA-600)	Α	В	С	D	Е	
Paste pH	11.7	11.8	12.1	12.2	12.2	
Total Sulphur (%) (LECO)	0.05	0.06	0.07	0.05	<0.01	
Acid Potential (AP) (kg/t)	1.56	1.88	2.19	1.56	0.31	
Neutralization Potential (NP)	43.5	27	36.25	39.25	24.75	
Nett Neutralization Potential (NNP)	41.94	25.13	34.06	37.69	24.44	
Neutralising Potential Ratio (NPR) (NP : AP)	27.84	14.4	16.57	25.12	79.2	
Rock Type	III					

Table 5: NAG results summary for dry ash

	Sample Identification: pH 4.5 & 7				
Nett Acid Generation	A	В	С	D	E
NAG pH: (H2O2)	10.2	10.3	10.3	10.5	10.2
NAG (kg H2SO4 / t)	<0.01	<0.01	<0.01	<0.01	<0.01

4.2.6 ABA and NAG Results – Ash Slurry

The solid ash phase of the ash slurry was also sent for ABA and NAG analysis to determine whether the dissolution and mixture with the slurry water has any significant effect on the acid producing potential of the ash. The results are shown in Table 6 and Table 7.

The following can be concluded from the ash slurry sample analysis:

- The paste pH of the ash material is highly alkaline with all total sulphur % below the acid producing limit of 0.25 %S proposed by the US EPA;
- For sustainable long-term acid generation, at least 0.3% Sulphide-S is needed. Values below this can yield acidity, but it is likely to be only of short-term significance;
- The low sulphur content and alkaline nature of the ash allows for a big difference between the Acid Potential (AP) and Neutralising Potential (NP), resulting in a Nett Neutralising Potential (NNP) of well above 0 for all samples;
- The high NNP and NAG of the samples allow for the ash to be classified as a type III rock/material non-acid forming; and
- Based on the non-acid forming nature of the ash the potential metal contamination and leachabality is low.



Acid – Base Accounting					
Modified Sobek (EPA-600)					
Paste pH	11.7				
Total Sulphur (%) (LECO)	0.11				
Acid Potential (AP) (kg/t)	3.44				
Neutralization Potential (NP)	44				
Nett Neutralization Potential (NNP)	40				
Neutralising Potential Ratio (NPR) (NP : AP)	13				
Rock Type					

Table 6: ABA results summary for ash slurry sample

Table 7: NAG results summary for ash slurry sample

Nett Acid Generation	Sample Identification: pH 4.5 & 7.0				
	AWS				
NAG pH: (H ₂ O ₂)	9.5				
NAG (kg H_2SO_4/t)	<0.01				

4.2.7 Leachate Tests

Two leachate tests were done to evaluate the leachabality of elements and contaminants, both for the waste classification, as well as to determine the risk under a conservative approach in acidic conditions. The normal distilled/reagent water tests were done to evaluate the potential for contaminants to leach out under normal conditions with a pH of the water being close to neutral and just enough salts to allow reactions to proceed. Along with the distilled water leach procedure the TCLP tests were conducted using fluid 2 with a reagent pH of 2.9 and thus simulating the conservative scenario in which the ash comes into contact with an acidic environment as in the case of Acid Mine Drainage (AMD) development. The TCLP results are however discussed briefly and used in the geohydrological report.

In the next sub-section the leachate tests are compared against SANS drinking water standards and WHO guidelines (where no SANS guidelines exist) to determine the effect that a potential release of the leachate into a water supply environment can have on human health as per standard practice in environmental impact assessments. These comparisons are shown in Appendix B. In Section 5 of this report the Distilled water leachate results will be compared against threshold limits and guidelines as per waste classification legislation.

4.2.7.1 Distilled/Reagent Water Leach Results

The distilled water (DW) leachate results were compared against drinking water guidelines as shown in Appendix B. The ions were divided into two groups namely those elements posing a health risk if consumed by humans and those that do not show a risk. The dry ash



sample leachate results (samples A to E) and the ash slurry results (sample AWS) were discussed separately.

From the data comparison against drinking water guidelines the following can be observed:

- Dry ash sample leachable concentrations (LC)
 - All 5 samples are not suitable for human consumption due to pH values and the concentrations of aluminium (Al), boron (B), barium (Ba), chrome (Cr) and selenium (Se) being above the recommended limits for drinking water;
- Ash slurry leachable concentrations (LC)
 - Sample AWS that was taken from the ash slurry stream has the best quality of all samples, with the lowest leachable concentrations. This is due to the removal of some of the dissolved ions from the system as soon as the water (used to mix with ash so that it can be pumped) is removed.
 - The leachate from the ash slurry is however also not suitable for human consumption die to levels of pH, Al, B and Cr being above the recommended drinking water guidelines.
- The pH levels of all the fluids from the leachate procedure are highly alkaline due to the high alkalinity of the ash; with the NNP of the samples also high. This alkalinity will be helpful in neutralising acid in an acidic environment, but under normal conditions will allow the water produced from the ash to be not suitable for consumption;
- From the other metals and ions that is not of any health risk to humans the only metals leaching in detectible concentrations are lithium (Li), tungsten (W) and silicon (Si);
- The high Si content is from the quartz and mullite mineralogy observed in the XRD results;
- The Ca concentrations are high in all samples and this is due to the lime and calcium mineralogy associated with the production of the ash;
- Although some elements do leach out in significant concentrations and can pose an environmental health risk, the low permeability and hydraulic conductivity of the ash material will allow for only a small amount of seepage through the system once it has been deposited in the mine voids. It can therefore be assumed that any small amount of leachable ions from the ash will be diluted to acceptable levels once it comes into contact with groundwater or surface water ; and
- It is however recommended that this be confirmed through geochemical modelling and continuous monitoring.

4.2.8 Ash Water Analysis

As mentioned in the DW test results the ash slurry sample submitted for testing showed the best quality leachate product. This could be due to the solution of the most reactive ions into



the slurry water that will later be removed (large portions of it) through abstraction in the backfilling process.

The analysis and comparison of the ash water sample against the same standards as those used for the DW tests confirms this as shown in Table 8. The main conclusions after assessment of the hydrochemistry of the slurry water are:

- The sample is deemed unsuitable for human consumption due to pH, TDS, EC, F, Cr and Se levels above the recommended drinking water limits
- The high concentrations of Cr, Ca and Se correlate with the elements leaching out in significant quantities from the ash as observed in the DW tests and this is due to the ash mineralogy; and
- The high F concentrations in the water is most probably naturally occurring and not from the ash mineralogy and geochemistry.

It should be kept in mind that the contents of the ash slurry water are highly dependent on the quality of the water used to produce the slurry. Concentrations of elements can vary significantly and from day to day depending on the water used.

Parameter	Unit	Drinking water limits	Ash water
рН	-	5 - 9.7	12.4
TDS	mg/l	1200	1492
EC	mS/m	170	596
HCO3	mg/l	N/A	<5
CO3	mg/l	N/A	72
Total Alk	mg/I CaCO3	N/A	1320
F	mg/l	1.5	2
CI	mg/l	300	178
NO3 as N	mg/l	11	<0.2
SO4	mg/l	500	41
As	mg/l	0.01	<0.010
B*	mg/l	0.5	0.276
Cd	mg/l	0.003	<0.005
Co	mg/l	0.5	<0.025
Cr	mg/l	0.05	0.187
Cu	mg/l	2	<0.025
Fe	mg/l	2	0.3
Hg	mg/l	0.006	<0.001
Mn	mg/l	0.5	<0.025
Ni	mg/l	0.07	<0.025
Pb	mg/l	0.01	<0.020
Se	mg/l	0.01	0.031
Zn	mg/l	5	<0.025
	*WHO	guidelines used	

Table 8: Ash water analysis results



4.3 Geochemistry Conclusions

Based on the geochemical tests and mineralogical data of both the ash and the slurry water the following can be concluded:

- The ash mineralogy is dominated by quartz and mullite with large percentages of amorphous material and trace element inclusions;
- The ash material has a high NNP and will allow for the buffering of any acidic environments;
- In the DW tests the main elements of concern leaching out is B, Ba, Ca, Se, Al and Cr. These elements should be monitored in all phases of the project on a monthly basis;
- The ash water sampled showed that the mixing of the slurry water and ash allows for the solution of Al, B, Se, Cr and Ca into the ash water and removing some of the elements of concern before it reaches the pump house;
- Although some elements do leach out in significant concentrations in both the TCLP and DW tests and can pose an environmental health risk, the low permeability and hydraulic conductivity of the ash material will result in a small amount of seepage through the system once it has been deposited in the mine voids. It can be assumed that any small amount of leachable ions from the ash will be diluted to acceptable levels once it comes into contact with groundwater or surface water at the decant positions; and
- It is recommended that this be confirmed through continuous monitoring.



5 WASTE CLASSIFICATION

5.1 Introduction

The backfilling option proposed for the Sigma Colliery is an ash management activity that will be a mono-disposal process. Due to the mono-disposal nature of the backfilling option the ash slurry was sent for Distilled/Reagent water leachate tests as well as a complete analysis of the fluid phase. The results of these tests were then classed and compared against the Total Concentration Threshold (TCT) and Leachable Concentration Threshold (LCT) limits to determine the waste type as per legislative guidelines given in the National Environmental Management Waste Act, 2008 (Act No. 59 of 2008).

The results of the water analysis and ash analysis were combined in a weighted average calculation of 80% water and 20% ash for the total concentrations. This procedure was followed as the current and planned water to ash ratio in the slurry will be 80% water and 20% ash. The sum of these weighted average calculations thus gives an accurate indication of the concentrations that can be expected to enter the mine voids. The leachable concentrations however represent an accurate indication of what can leach from the solid phase into the environment and was used as such. Where values were below the limit of detection they were indicated as such.

The water phase of the slurry was submitted for a full organic analysis as well. Due to the volatile nature of most of the organic compounds and there high mobility, if any organic compounds were found in the ash material itself it would either have combusted or dissolved into the liquid.

5.2 Legislative Guidelines

The following legislative guidelines were instated in August 2013 and give the background and guidelines for waste classification in South Africa:

- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008). National Waste Information Regulations, 2012 (DEA 2012);
- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008). National Norms and Standards for the Assessment of Waste for Landfill Disposal (DEA 2013a);
- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008). National Norms and Standards for the Disposal of Waste to Landfill (DEA 2013b); and
- National Environmental Management Waste Act, 2008 (ACT No. 59 of 2008).
 National Waste Classification and Management Regulations (DEA 2013c).

The above four documents are presented in Appendix C and were used as the waste classification guidelines for this project.



5.3 Data Evaluation and Comparisons

5.3.1 Total Concentration Threshold

From the classification of the ash slurry material according to the TCT limits (Table 9) the following can be concluded:

All TCT values from the ash slurry material is below the TCT0 threshold limits;

5.3.2 Leachable Concentration Threshold

From the classification of the ash material according to the LCT limits (Table 10) the following can be concluded:

- The ash slurry sample shows boron (B = 1.4 mg/kg) levels above the recommended LCT0 limits but are still well below the LCT1 limits;
- All other concentrations of the ions tested for and present in the samples are within the LCT0 limits.

5.4 Classification

Based on the classification of the Distilled/Reagent water leachate test results against the relevant TCT and LCT limits as given in the legislative guidelines for waste classification (DEA 2013a), the ash to be used as backfill can be classified as follows:

- For boron (B) the results show that LCT0<LC<LCT1 and TC<TCT0;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste;
- A Type 3 waste may only be disposed of at a Class C (GLB+) landfill; however
 - Based on the low concentrations of the leachable ions (although they are above TCT0 and LCT0 in certain cases), the low NAG and high NNP (section 3.2.3) it is concluded that the alternative waste management activity of backfilling the mine voids at Sigma colliery with the ash material is feasible and a motivation to the authorities for this activity to be licenced is recommended; furthermore
 - The low permeability and hydraulic conductivity of ash will allow little to no seepage through the newly formed ash layers once it has settled and thus the environmental concentration of contaminants entering the receiving environment will be low and easily diluted through natural processes.
 - Previous monitoring of the water quality in the area where backfilling has been done indicates that the water quality has improved since backfilling with subsidence also stopped and thus based on this is also deemed feasible.



Table 9: TCT classification table

Parameter	Unit	тсто	TCT1	TCT2	AWS
As	mg/kg	5.8	500	2000	0.01
В	mg/kg	150	15000	60000	5.71
Ва	mg/kg	62.5	6250	25000	8.15
Cd	mg/kg	7.5	260	1040	0.0004
Со	mg/kg	50	5000	20000	<0.02
Cr	mg/kg	46000	800000	N/A	0.49
Cu	mg/kg	16	19500	78000	<0.02
Hg	mg/kg	0.93	160	640	0.0012
Mn	mg/kg	1000	25000	100000	0.04
Мо	mg/kg	40	1000	4000	0.223456
Ni	mg/kg	91	10600	42400	<0.02
Pb	mg/kg	20	1900	7600	<0.02
Sb	mg/kg	10	75	300	0.016
Se	mg/kg	10	50	200	0.06
V	mg/kg	150	2680	10720	0.55
Zn	mg/kg	240	160000	640000	<0.02
Fluoride as F	mg/kg	100	10000	40000	4

Table 10: LCT classification table

Parameter	Unit	LCT0	LCT1	LCT2	LCT3	AWS
As	mg/l	0.01	0.5	1	4	0.003
В	mg/l	0.5	25	50	200	1.4
Ва	mg/l	0.7	35	70	280	0.4
Cd	mg/l	0.003	0.15	0.3	1.2	0.0001
Со	mg/l	0.5	25	50	200	<0.001
Cr	mg/l	0.1	5	10	40	0.09
Cu	mg/l	2	100	200	800	<0.001
Hg	mg/l	0.006	0.3	0.6	2.4	0.0003
Mn	mg/l	0.5	25	50	200	0.01
Мо	mg/l	0.07	3.5	7	28	0.03
Ni	mg/l	0.07	3.5	7	28	<0.001
Pb	mg/l	0.01	0.5	1	4	<0.001
Sb	mg/l	0.02	1	2	8	0.004
Se	mg/l	0.01	0.5	1	4	0.01
V	mg/l	0.2	10	20	80	0.14
Zn	mg/l	5	250	500	2000	<0.001
Chloride as Cl	mg/l	300	15000	30000	120000	8
Sulphate as SO₄	mg/l	250	12500	25000	100000	22
Nitrate as N	mg/l	11	550	1100	4400	<0.2
Fluoride as F	mg/l	1.5	75	150	600	0.6



6 IMPACT ASSESSMENT

The potential impacts and risks identified through the geochemical evaluation of the ash material has been assessed and rated as part of the geohydrological study and is included in the geohydrological specialist report.

SAS1691



7 CONCLUSIONS

Based on the geochemical study results and waste classification the following can be concluded:

7.1 Geochemical study

- The ash mineralogy is dominated by quartz and mullite with large percentages of amorphous material and trace element inclusions;
- The ash material has a high NNP and will allow for the buffering of any acidic environments;
- In the DW tests the main elements of concern leaching out are B, Ba, Ca, Se, Al and Cr. These elements should be monitored in all phases of the project on a monthly basis;
- The ash water sampled showed that the mixing of the slurry water and ash allows for the dissolution of AI, B, Se, Cr and Ca into the ash water and removing some of the elements of concern before it reaches the pump house; and
- Although some elements do leach out in significant concentrations in both the DW tests and can pose an environmental health risk, the low permeability and hydraulic conductivity of the ash material will result in a small amount of seepage through the system once it has been deposited in the mine voids. It can be assumed that any small amount of leachable ions from the ash will be diluted to acceptable levels once it comes into contact with groundwater or surface water at the decant positions.

7.2 Waste Classification

Based on the classification of the Distilled/Reagent water leachate test results against the relevant TCT and LCT limits (as given in the legislative guidelines for waste classification (DEA 2013a), the ash to be used as backfill can be classified as follows:

- For boron (B) the results show that LCT0<LC<LCT1 and TC<TCT0;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste;



8 **RECOMMENDATIONS**

The following recommendations are made by Digby Wells based on the outcome of this study:

- In the DW tests the main elements of concern leaching out are B, Ba, Ca, Se, Al and Cr. These elements should be monitored in all phases of the project on a monthly basis;
- The ash to be used for the backfilling of the underground voids can be classed as a Type 3 waste; however
 - Based on the low concentrations of the leachable ions (although they are above TCT0 and LCT0 in certain cases), the low NAG and the high NNP (section 3.2.3) it is concluded that the alternative waste management activity of using the ash material for backfilling of the mine voids at Sigma Colliery is feasible and a motivation to the authorities for this activity to be licenced is recommended.
 - The low permeability and hydraulic conductivity of ash will allow little to no seepage through the newly formed ash layers once allowed to settle and thus the environmental concentration of contaminants entering the receiving environment will be low and easily diluted through natural processes.
- If the waste management activity of backfilling the mine voids is not pursued the waste should be disposed of at a Class C Landfill.
- Previous limits and target water quality conditions in the water licence granted for the ash backfilling in Licence #20021165 was well set and achievable. It is recommended that these conditions are kept and monitoring should ensure that the target water quality standards are achieved.



9 **REFERENCES**

- DEA, 2013a. National Norms and Standards for the Assessment of Waste for Landfill Disposal, Department of Environmental Affairs.
- DEA, 2013b. National Norms and Standards for the Disposal of Waste to Landfill,
- DEA, 2013c. National Waste Classification and Management Regulations, Department of Environmental Affairs.
- DEA, 2012. National Waste Information Regulations, 2012, Department of Environmental Affairs.



Appendix A: Laboratory certificates
WATERLAB (Pty) Ltd Reg. No.: 1983/009165/07 V.A.T. No.: 4130107891



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SANAS Accredited Testing Laboratory No. T0391

CERTIFICATE OF ANALYSES GENERAL WATER QUALITY PARAMETERS

Date received: 2013 - 09 - 26			Dat	e completed: 2013 - 10 – 14	
Project number: 1000	Report num	ber: 42135	Order number: SAS1691		
Client name: Digby Wells Environmental Address: Private Bag X10046 Randburg 2125 Telephone: 011 789 9495 Facsimile: 011 789 9498			Cor e-m Mol	Contact person: Mr. A. van Coller e-mail: <u>andre.van.coller@digbywells.com</u> Mobile: -	
Analyses in mg/e		Method		Sample Identification	
Sample Number		Identificatio	n	18946	
nH – Value at 25°C		WI 4B001		12.3	
Electrical Conductivity in mS/m at	25°C	WLAB002		523	
Total Dissolved Solids at 180°C *	20 0	WLAB003		1 412	
Total Acidity as CaCO ₃ *		WLAB022		<5	
Total Alkalinity as CaCO ₃		WLAB007		1 248	
P-Alkalinity as CaCO ₃ *		WLAB023		880	
Bicarbonate Alkalinity as CaCO ₃ *		WLAB023		<5	
Carbonate Alkalinity as CaCO ₃ *		WLAB023		736	
Total Hardness as CaCO ₃ *		WLAB051		1 102	
Chloride as Cl		WLAB046		163	
Sulphate as SO₄		WLAB046		60	
Fluoride as F		WLAB014		1.7	
Nitrate as N		WLAB046		<0.2	
Nitrite as N		WLAB046		0.3	
Ortho Phosphate as P		WLAB046		<0.2	
Dissolved Oxygen as O ₂ *		WLAB040		6.0	
Free & Saline Ammonia as N		WLAB046		3.8	
Ammonium as NH₄ *				<0.2	
Sodium as Na		WLAB015		168	
Potassium as K		WLAB015		15.6	
Calcium as Ca		WLAB015		442	
Magnesium as Mg		WLAB015		<2	
Analyses continued on next page					

A. van de Wetering

Technical Signatory

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Date received: 2013 - 09 - 26		Date completed: 2013 - 10 - 14		
Project number: 1000	Report number: 42135	Order number: SAS1691		
Client name: Digby Wells Enviro	nmental	Contact person: Mr. A. van Coller		
Address: Private Bag X10046 Ra	ndburg 2125	e-mail: andre.van.coller@digbywells.com		
Telephone: 011 789 9495	Facsimile: 011 789 9498	Mobile: -		
		Comple Identification		

Analyses in mg/ℓ		Sample Identification		
(Unless specified otherwise)	Identification	Composite		
Sample Number		18946		
Aluminium as Al	WLAB015	3.78		
Arsenic as As *	WLAB015	<0.010		
Boron as B *	WLAB015	0.696		
Cadmium as Cd	WLAB015	<0.005		
Chromium as Cr	WLAB015	0.167		
Hexavalent Chromium as Cr ⁶⁺ *	WLAB032	0.160		
Cobalt as Co	WLAB015	<0.025		
Copper as Cu	WLAB015	<0.025		
Iron as Fe	WLAB015	0.559		
Lead as Pb	WLAB015	<0.020		
Manganese as Mn	WLAB015	<0.025		
Mercury as Hg *	WLAB047	<0.001		
Nickel as Ni	WLAB015	<0.025		
Selenium as Se *	WLAB015	0.032		
Uranium as U *	WLAB015	<0.010		
Zinc as Zn	WLAB015	<0.025		
% Balancing		98.9		

* = Not SANAS Accredited

Tests marked "Not SANAS Accredited" in this report are not included in the SANAS Schedule of Accreditation for this Laboratory.

A. van de Wetering

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CERTIFICATE OF ANALYSES X-RAY FLUORESENCE

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

, Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Major Element Concentration (wt %)[s]					
Major Elements	А	В	С	D	E	
	18940	18941	18942	18943	18944	
SiO ₂	49.12	48.3	46.87	61.01	48.49	
TiO ₂	2.54	2.56	2.54	1.68	2.36	
Al ₂ O ₃	32.53	32.47	33.21	24.65	31.15	
Fe ₂ O ₃	3.23	3.18	3.3	2.62	3.06	
MnO	0.04	0.05	0.05	0.04	0.05	
MgO	0.59	0.67	0.75	0.52	0.73	
CaO	6.16	6.35	6.65	0.65	5.78	
Na ₂ O	0.63	0.78	0.87	0.3	0.79	
K ₂ O	0.67	0.69	0.72	1.81	0.7	
P_2O_5	0.14	0.15	0.15	0.08	0.15	
Cr ₂ O ₃	0.05	0.05	0.05	0.04	0.05	
SO ₃	0.1	0.26	0.14	0.11	0.36	
LOI	3.72	4.06	4.18	6.22	5.86	
Total	99.52	99.57	99.48	99.73	99.53	
H ₂ O-	0.04	0.08	0.2	0.47	0.13	

[s] =Results obtained from sub-contracted laboratory

E. Botha Geochemistry Project Manager

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Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Trace Element Concentration (ppm) [s]						
Trace Elements	Α	В	С	D	E		
	18940	18941	18942	18943	18944		
As	23.5	21.8	25.9	<1.00	20.6		
Ва	812	846	897	479	828		
Bi	<1.00	<1.00	<1.00	<5.00	<1.00		
Br	1.32	1.16	1.21	<1.00	1.25		
Cd	1.84	<5.00	<5.00	<5.00	<5.00		
Се	<5.00	<5.00	<5.00	<5.00	<5.00		
CI	1129	881	1041	802	956		
Со	12.7	32.5	53.9	<5.00	42.7		
Cs	<1.00	<1.00	1.49	<1.00	<1.00		
Cu	84.7	71	78	23.7	72.8		
Ga	72	74.4	76.4	21	64.5		
Ge	15.8	14	18.5	4.09	13.2		
Hf	8.68	8.88	9.02	14.9	8.71		
Hg	1.6	1.65	1.73	<5.00	1.37		
La	103	66.2	92.2	15.1	69.7		
Lu	<1.00	<1.00	<1.00	<1.00	<1.00		
Мо	13.9	11.3	13.1	10.8	12.2		
Nb	53.7	54.1	53.1	19.1	49		
Nd	80.3	83.5	70.9	65.2	62.5		
Ni	75.5	74.2	80.7	52.9	74		
Pb	111	133	128	20.1	103		
Rb	32.9	35.8	36.2	59.9	33.9		
Sb	<5.00	3.39	<1.00	3.12	3.66		
Sc	18.6	16.6	21	12.6	18.8		
Se	<1.00	<5.00	<1.00	<5.00	<1.00		
Sm	17.9	16.4	17.1	12.6	17.2		
Sn	1.76	2.89	1.56	4.78	2.49		
Sr	905	887	1128	161	1063		
Та	3.27	3.57	5.17	3.27	2.66		
Те	27.5	30.4	25.7	2.7	29.7		
Th	56	60.9	58.7	29.9	53.4		
TI	2.21	1.95	1.26	<1.00	1.74		
	Results continued on next page						

E. Botha

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Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

	Trace Element Concentration (ppm) [s]						
Trace Elements	А	В	С	D	E		
	18940	18941	18942	18943	18944		
U	15	16.2	17.2	4.63	16.6		
V	281	290	304	74.9	282		
W	5.16	5.12	4.93	4.93	4.95		
Y	107	112	110	26.5	104		
Yb	26.7	25	25.9	18.8	24.3		
Zn	95.6	94.4	115	111	63.5		
Zr	733	739	718	967	673		

[s] =Results obtained from sub-contracted laboratory

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CERTIFICATE OF ANALYSES X-RAY DIFFRACTION

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-23 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Composition (%) [s]								
A				В			С	
	18940			18941			18942	
Mineral	Amount (weight %)	Error	Mineral Amount (weight %) Error			Mineral	Amount (weight %)	Error
Amorphous	53.55	1.26	Amorphous	58.08	1.2	Amorphous	55.83	1.29
Lime	0.83	0.13	Lime	0.67	0.13	Lime	0.52	0.14
Calcite	0.12	0.11	Calcite	0.04	0.1	Calcite	0	0
Mullite	38.51	1.11	Mullite	36.07	1.05	Mullite	38.06	1.17
Quartz	6.98	0.57	Quartz	5.14	0.51	Quartz	5.6	0.54

Composition (%) [s]					
	D			E	
18943				18944	
Mineral	Amount (weight %)	Error	Mineral	Amount (weight %)	Error
Amorphous	75.55	0.87	Amorphous	55.43	1.23
Lime	0.36	0.09	Lime	1.08	0.15
Calcite	0.1	0.17	Calcite	0	0
Mullite	6.28	0.42	Mullite	35.65	1.05
Quartz	17.7	0.57	Quartz	7.84	0.57

[s] Results obtained from sub-contracted laboratory



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CERTIFICATE OF ANALYSES X-RAY DIFFRACTION

Date received: 2013-09-26 Project number: 1000	Report number: 42135	Date completed: 2013-10-23 Order number: SAS1691
Client name: Digby Wells Environme Address: Private Bag X 10046, Rand	Contact person: Andre van Coller Email: andre.van.coller@digbywells.com	
Facsimile: 011 789 9498	Telephone: 011 789 9495	Cell: 076 076 9443

Note:

The material submitted was scanned after addition of 20 % Si for quantitative determination of

amorphous content and micronizing in a McCrone micronizing mill.

The material was prepared for XRD analysis using a backloading preparation method.

It was analysed with a PANalytical Empyrean diffractometer with PIXcel detector and fixed slits with

Fe filtered Co-K_ radiation. The phases were identified using X'Pert Highscore plus software.

The relative phase amounts (weight%) were estimated using the Rietveld method.

Errors are on the 3 sigma level in the column to the right of the amount (in weight per cent).

Comment:

• In case the results do not correspond to results of other analytical techniques, please let me know for further fine tuning of XRD results.

• Mineral names may not reflect the actual compositions of minerals identified, but rather the mineral group .

• Errors reported for phases occurring in minor amounts are sometimes larger than that of the quantity reported, indicating the possible absence of those phases.

Ideal Mineral compositions: Calcite CaCO3 Lime CaO Mullite 3Al2O3 2SiO2 Quartz SiO2



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<u>CERTIFICATE OF ANALYSES</u> ACID – BASE ACCOUNTING EPA-600 MODIFIED SOBEK METHOD

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Acid – Base Accounting	Sample Identification						
Modified Sobek (EPA-600)	Α	В	С	D	Е	Е	
Sample Number	18940	18941	18942	18943	18944	18944D	
Paste pH	11.7	11.8	12.1	12.2	12.2	12.2	
Total Sulphur (%) (LECO)	0.05	0.06	0.07	0.05	<0.01	<0.01	
Acid Potential (AP) (kg/t)	1.56	1.88	2.19	1.56	0.31	0.31	
Neutralization Potential (NP)	43.50	27.00	36.25	39.25	24.75	25.50	
Nett Neutralization Potential (NNP)	41.94	25.13	34.06	37.69	24.44	25.19	
Neutralising Potential Ratio (NPR) (NP : AP)	27.84	14.40	16.57	25.12	79.20	81.60	
Rock Type	111	111	111	111	111		

* Negative NP values are obtained when the volume of NaOH (0.1N) titrated (pH: 8.3) is greater than the volume of HCI (1N) to reduce the pH of the sample to 2.0 – 2.5 Any negative NP values are corrected to 0.00.

Please refer to Appendix (p.2) for a Terminology of terms and guidelines for rock classification



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<u>CERTIFICATE OF ANALYSES</u> ACID – BASE ACCOUNTING EPA-600 MODIFIED SOBEK METHOD

Date received: 2013-09-26 Project number: 1000

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APPENDIX : TERMINOLOGY AND ROCK CLASSIFICATION

TERMINOLOGY (SYNONYMS)

- Acid Potential (AP) ; Synonyms: Maximum Potential Acidity (MPA) Method: Total S(%) (Leco Analyzer) x 31.25
- Neutralization Potential (NP); Synonyms: Gross Neutralization Potential (GNP); Syn: Acid Neutralization Capacity (ANC) (The capacity of a sample to consume acid) Method: Fizz Test; Acid-Base Titration (Sobek & Modified Sobek (Lawrence) Methods)
- Nett Neutralization Potential (NNP) ; Synonyms: Nett Acid Production Potential (NAPP) Calculation: NNP = NP – AP ; NAPP = ANC – MPA
- Neutralising Potential Ratio (NPR) Calculation: NPR = NP : AP

CLASSIFICATION ACCORDING TO NETT NEUTRALISING POTENTIAL (NNP)

If NNP (NP – AP) < 0, the sample has the potential to generate acid If NNP (NP – AP) > 0, the sample has the potential to neutralise acid produced

Any sample with NNP < 20 is potentiall acid-generating, and any sample with NNP > -20 might not generate acid (Usher *et al.*, 2003)

ROCK CLASSIFICATION

TYPE I	Potentially Acid Forming	Total S(%) > 0.25% and NP:AP ratio 1:1 or less
TYPE II	Intermediate	Total S(%) > 0.25% and NP:AP ratio 1:3 or less
TYPE III	Non-Acid Forming	Total S(%) < 0.25% and NP:AP ratio 1:3 or greater

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<u>CERTIFICATE OF ANALYSES</u> ACID – BASE ACCOUNTING EPA-600 MODIFIED SOBEK METHOD

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Te

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Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

CLASSIFICATION ACCORDING TO NEUTRALISING POTENTIAL RATIO (NPR)

Guidelines for screening criteria based on ABA (Price et al., 1997; Usher et al., 2003)

Potential for ARD	Initial NPR Screening Criteria	Comments
Likely	< 1:1	Likely AMD generating
Possibly	1:1 – 2:1	Possibly AMD generating if NP is insufficiently reactive or is depleted at a faster rate than sulphides
Low	2:1 – 4:1	Not potentially AMD generating unless significant preferential exposure of sulphides along fracture planes, or extremely reactive sulphides in combination with insufficiently reactive NP
None	>4:1	No further AMD testing required unless materials are to be used as a source of alkalinity

CLASSIFICATION ACCORDING TO SULPHUR CONTENT (%S) AND NEUTRALISING POTENTIAL RATIO (NPR)

For sustainable long-term acid generation, at least 0.3% Sulphide-S is needed. Values below this can yield acidity but it is likely to be only of short-term significance. From these facts, and using the NPR values, a number of rules can be derived:

- 1) Samples with less than 0.3% Sulphide-S are regarded as having insufficient oxidisable Sulphide-S to sustain acid generation.
- 2) NPR ratios of >4:1 are considered to have enough neutralising capacity.
- 3) NPR ratios of 3:1 to 1:1 are consider inconclusive.
- 4) NPR ratios below 1:1 with Sulphide-S above 3% are potentially acid-generating. (Soregaroli & Lawrence, 1998 ; Usher *et al.*, 2003)

E. Botha

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<u>CERTIFICATE OF ANALYSES</u> ACID – BASE ACCOUNTING EPA-600 MODIFIED SOBEK METHOD

Date received: 2013-09-26 Project number: 1000	Report number: 42135	Date completed: 2013-10-22 Order number: SAS1691			
Client name: Digby Wells Environme	tal	Contact person: Andre van Coller			
Address: Private Bag X 10046, Randb	Email: andre.van.coller@digbywells.com				
Facsimile: 011 789 9498	Telephone: 011 789 9495	Cell: 076 076 9443			

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E. Botha Geochemistry Project Manager

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CERTIFICATE OF ANALYSES NETT ACID GENERATION

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-22 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Nott Apid Constation		San	ple Identific	ation: pH 4.5	& 7	
Nett Acid Generation	Α	В	С	D	E	E
Sample Number	18940	18941	18942	18943	18944	18944D
NAG pH: (H ₂ O ₂)	10.2	10.3	10.3	10.5	10.2	10.2
NAG (kg H ₂ SO ₄ / t)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

E. Botha Geochemistry Project Manager

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-30 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Anglyggg		Sample Ide	entification	
Analyses		A	В	
Sample number	18	940	189	941
TCLP / Acid Rain / Distilled Water / H_2O_2	Distille	d Water	Distille	d Water
Dry Mass Used (g)	5	50	5	0
Volume Used (mℓ)	10	000	10	00
pH Value at 25°C	12	2.2	12	2.1
Electrical Conductivity in mS/m at 25°C	279		206	
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg
Alkalinity as CaCO ₃	790	1 580	612	12 240
Chloride as Cl	<5	<100	<5	<100
Sulphate as SO₄	22	440	31	620
Nitrate as N	<0.2	<4.0	<0.2	<4.0
Fluoride as F	0.6	12	0.5	10
Phosphorus as P	<0.025	<0.500	<0.025	<0.500
ICP-MS Quant [s]	See attached repo	ort 42135 ICP DW	See attached repo	ort 42135 ICP DW
Acid Base Accounting	See attached report 42135 ABA		See attached re	port 42135 ABA
Net Acid Generation	See attached report 42135 NAG		See attached re	port 42135 NAG
X-Ray Diffraction [s]	See attached re	port 42135 XRD	See attached re	port 42135 XRD
X-Ray Fluorescence [s]	See attached re	eport 42135 XRF	See attached re	port 42135 XRF

[s] Subcontracted

E. Botha

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-30 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Analyzas		Sample Ide	entification	
Analyses	(С)
Sample number	18	942	189	943
TCLP / Acid Rain / Distilled Water / H_2O_2	Distille	d Water	Distille	d Water
Dry Mass Used (g)	5	50	5	0
Volume Used (mℓ)	10	000	10	00
pH Value at 25°C	12	2.3	12	2.4
Electrical Conductivity in mS/m at 25°C	392		52	27
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg
Alkalinity as CaCO ₃	1 020	20 400	1 368	27 360
Chloride as Cl	<5	<100	<5	<100
Sulphate as SO₄	9	180	<5	<100
Nitrate as N	<0.2	<4.0	<0.2	<4.0
Fluoride as F	1.0	20	0.7	14
Phosphorus as P	<0.025	<0.500	<0.025	<0.500
ICP-MS Quant [s]	See attached repo	ort 42135 ICP DW	See attached repo	ort 42135 ICP DW
Acid Base Accounting	See attached report 42135 ABA		See attached re	port 42135 ABA
Net Acid Generation	See attached report 42135 NAG		See attached report 42135 NAG	
X-Ray Diffraction [s]	See attached re	port 42135 XRD	See attached re	port 42135 XRD
X-Ray Fluorescence [s]	See attached re	eport 42135 XRF	See attached report 42135 XRF	

[s] Subcontracted

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-30 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498 Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Analyzaa	Samp		entification	
Analyses	I	E	AWS	
Sample number	18	944	189	945
TCLP / Acid Rain / Distilled Water / H_2O_2	Distille	d Water	Distille	d Water
Dry Mass Used (g)	5	0	5	0
Volume Used (mℓ)	10	00	10	00
pH Value at 25°C	12	2.2	11	.4
Electrical Conductivity in mS/m at 25°C	28	81	46	61
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg
Alkalinity as CaCO ₃	732	14 640	136	2 720
Chloride as Cl	<5	<100	8	160
Sulphate as SO₄	23	460	22	440
Nitrate as N	<0.2	<4.0	<0.2	<4.0
Fluoride as F	0.8	16	0.6	12
Phosphorus as P	<0.025	<0.500	<0.025	<0.500
ICP-MS Quant [s]	See attached repo	ort 42135 ICP DW	See attached report 42135 ICP DW	
Acid Base Accounting	See attached report 42135 ABA		See attached report 42135 ABA	
Net Acid Generation	See attached report 42135 NAG		See attached report 42135 NAG	
X-Ray Diffraction [s]	See attached re	port 42135 XRD	See attached re	port 42135 XRD
X-Ray Fluorescence [s]	See attached re	port 42135 XRF	See attached report 42135 XRF	

[s] Subcontracted

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WATERLAB (PTY) LTD <u>CERTIFICATE OF ANALYSES</u> ICP-MS QUANTITATIVE ANALYSIS [s]

Date received: Project number	26/09/2013 : 1000				Date Completed: Report number:	30/10/2013 42135	
Client name: Adress: Telephone:	Digby Wells Environ Private Bag X10046, 011 789 9495	mental Randburg, 2125			Contact person: Email:	Andre van Coller andre.van.coller@u	<u>digbywells.com</u>
Extract	Sample Dry Mass (g)	Volume (ml)	Factor	1	[s]= Results obta	ined form subcont	racted laborato
Distilled Water	50	1000	20		[3]= Nesults obta		
Sample Id	Sample Number	Aq	Aq	AI	AI	As	As
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit	100.40	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
	18940	<0.001	<0.020	3.01	60 90	0.001	0.020
	18942	<0.001	<0.020	0.708	14	0.002	0.040
	18943	0.001	0.020	0.486	10	0.001	0.020
WC .	18944	<0.001	<0.020	2.13	43	0.001	0.020
//3	19645	<0.001	<0.020	3.05	13	0.003	0.000
Sample Id	Sample Number	Au	Au	В	В	Ва	Ba
Det Limit		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit	18940	<0.001	<0.020	2.63	<0.020	3.01	<0.020
	18941	<0.001	<0.020	2.57	51	2.17	43
	18942	<0.001	<0.020	0.366	7.32	4.03	81
	18943	<0.001	<0.020	0.063	1.25	11	220
ws	19845	<0.001	<0.020	1.37	27	0.382	7.63
				•			
Sample Id	Sample Number	Be	Be	Bi	Bi	Са	Ca
Det Limit		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det LIMI	18940	<0.001	<0.020	<0.001	<0.020	322	6440
	18941	<0.001	<0.020	<0.001	<0.020	282	5640
	18942	<0.001	<0.020	<0.001	<0.020	440	8800
	18943	<0.001	<0.020	<0.001	<0.020	560	11200
ws	19845	<0.001	<0.020	<0.001	<0.020	65	1300
							•
Sample Id	Sample Number	Cd	Cd	Ce	Ce	Co	Со
Dot Limit		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit	18940	0.0002	0.0020	<0.001	<0.020	<0.001	<0.020
	18941	0.0002	0.004	<0.001	<0.020	<0.001	<0.020
•	18942	0.0002	0.004	<0.001	<0.020	<0.001	<0.020
	18943	0.0001	0.002	<0.001	<0.020	<0.001	<0.020
ws	19845	0.0001	0.002	<0.001	<0.020	<0.001	<0.020
				•	•	•	
Sample Id	Sample Number	Cr	Cr	Cs	Cs	Cu	Cu
Det Limit		mg/i	mg/kg	mg/i	mg/kg	mg/i	mg/kg
Det Ellint	18940	0.255	5.09	0.001	0.020	<0.001	<0.020
	18941	0.362	7.24	0.001	0.020	<0.001	<0.020
	18942	0.177	3.54	0.001	0.020	<0.001	<0.020
	18943	0.061	1.21	0.001	0.020	<0.001	<0.020
ws	19845	0.086	1.72	<0.001	<0.020	<0.001	<0.020
						-	
Sample Id	Sample Number	Fe	Fe	Ga	Ga	Ge	Ge
Det Limit		mg/i <0.01	mg/kg <0.20	mg/i <0.001	mg/kg <0.020	mg/i <0.001	mg/kg <0.020
	18940	<0.01	<0.20	0.078	1.55	0.001	0.020
	18941	<0.01	<0.20	0.103	2.06	<0.001	<0.020
	18942	<0.01	<0.20	0.056	1.12	<0.001	<0.020
	18944	<0.01	<0.20	0.042	1.64	<0.001	<0.020
WS	19845	<0.01	<0.20	0.028	0.563	<0.001	<0.020
Second	Comela Number		116	112			11-
Sample Id	Sample Number	Ht mg/l	Ht ma/ka	Hg mg/l	Hg	Ho mg/l	Ho ma/ka
Det Limit		<0.001	<0.200	<0.0001	<0.0020	<0.001	<0.200
	18940	<0.001	<0.200	0.0006	0.0120	<0.001	<0.200
	18941	<0.001	<0.200	0.0007	0.0140	<0.001	<0.200
	18942	<0.001	<0.200	0.0005	0.0040	<0.001	<0.200
	18944	<0.001	<0.200	0.0006	0.0120	<0.001	<0.200
vs	19845	<0.001	<0.200	0.0003	0.0060	<0.001	<0.200
Sample Id	Sample Number	Ir	le	ĸ	K	19	
oanpie lu		mg/l	mg/kg	ma/l	mg/ka	mg/l	mg/ka
Det Limit		<0.001	<0.020	<0.01	<0.20	<0.001	<0.020
	18940	<0.001	<0.020	0.154	3.1	<0.001	<0.020
	18941	<0.001	<0.020	0.166	3.3	<0.001	<0.020
	18942	<0.001	<0.020	0.164	3.3	<0.001	<0.020
·	18944	<0.001	<0.020	0.041	0.814	<0.001	<0.020
NS	19845	<0.001	<0.020	0.435	8.7	<0.001	<0.020
Sample Id	Sample Number	11	11	Ma	Me	Mn	Mn
oampie iu		mg/l	mg/kg	mg/l	mg/ka	mg/l	mg/ka
		~		. J.			

Sample Id	Sample Number	Li	Li	Mg	Mg	Mn	Mn
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
		iiig/i	iiig/kg	ilig/i	шулку	iiig/i	

Det Limit		<0.001	<0.020	<0.01	<0.200	<0.001	<0.020
Δ	189/0	0 300	<0.020	<0.01	<0.200	<0.001	<0.020
<u>~</u>	10340	0.300	<0.020	<0.01	<0.200	<0.001	<0.020
В	18941	0.370	<0.020	<0.01	<0.200	<0.001	<0.020
С	18942	0.330	<0.020	<0.01	<0.200	0.010	0.200
D	18943	0.260	<0.020	<0.01	<0.200	<0.001	<0.020
E	18944	0.370	7.40	<0.01	<0.200	<0.001	<0.020
AWS	19845	0.070	<0.020	<0.01	<0.200	0.010	0.200
Somple Id	Comple Number	Mo	Mo	No	No	NIL	Mb
Sample lu	Sample Number	NIO	INIO	ina	ind	UNI CINI	
		mg/i	mg/kg	mg/i	mg/kg	mg/i	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
Α	18940	0.058	1.17	1.27	25	<0.001	<0.020
В	18941	0.069	1.37	1.47	29	<0.001	<0.020
С	18942	0.050	1.01	1.61	32	<0.001	<0.020
D	18943	0.033	0.656	1.54	31	<0.001	<0.020
F	18944	0.053	1.05	2.04	41	<0.001	<0.020
L	10344	0.030	0.601	6.12	400	<0.001	<0.020
AWS	19045	0.050	0.001	0.12	122	NO.001	N0.020
Sample Id	Sample Number	Nd	Nd	NI	NI	Pb	Pb
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	0.024	0.485	<0.001	<0.020
В	18941	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
С	18942	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
D	18943	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
E	18944	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
AWS	19845	<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
<u> </u>							
Sample Id	Sample Number	P4	D4	Ph	Dh	C h	C h
Sample Id	Sample Number	PT	Pt	KD	KD	SD "	ac
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	0.002	0.040	0.002	0.040
В	18941	<0.001	<0.020	0.002	0.040	0.002	0.040
С	18942	<0.001	<0.020	0.002	0.040	0.001	0.020
D	18943	<0.001	<0.020	0.002	0.040	0.001	0.020
E	18944	<0.001	<0.020	0.002	0.040	0.002	0.040
AWS	19845	<0.001	<0.020	0.002	0.040	0.004	0.080
					•		
Commission	Comula Number	6-	0.	6.	0	C :	0:
Sample lu	Sample Number	30	30	Se	30	31	31
		mg/i	mg/kg	mg/i	mg/kg	mg/i	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.05	<1.00
Α	18940	0.001	0.020	0.042	0.845	1.5	31
В	18941	0.001	0.020	0.072	1.43	2.0	41
С	18942	<0.001	<0.020	0.014	0.288	0.950	19
D	18943	<0.001	<0.020	0.025	0.492	0.540	11
E	18944	<0.001	<0.020	0.045	0.900	1.7	35
E AWS	18944 19845	<0.001 0.005	<0.020 0.100	0.045 0.009	0.900 0.180	1.7 7.1	35 142
E AWS	18944 19845	<0.001 0.005	<0.020 0.100	0.045 0.009	0.900 0.180	1.7 7.1	35 142
E AWS	18944 19845	<0.001 0.005	<0.020 0.100	0.045 0.009	0.900 0.180	1.7 7.1	35 142
E AWS Sample Id	18944 19845 Sample Number	<0.001 0.005	<0.020 0.100	0.045 0.009	0.900 0.180	1.7 7.1	35 142 Ta
E AWS Sample Id	18944 19845 Sample Number	<0.001 0.005 Sn mg/l	<0.020 0.100 Sn mg/kg	0.045 0.009 Sr mg/l	0.900 0.180 Sr mg/kg	1.7 7.1 Ta mg/l	35 142 Ta mg/kg
E AWS Sample Id Det Limit	18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001	<0.020 0.100 Sn mg/kg <0.020	0.045 0.009 Sr mg/l <0.001	0.900 0.180 Sr mg/kg <0.020	1.7 7.1 Ta mg/l <0.001	35 142 Ta mg/kg <0.020
E AWS Sample Id Det Limit A	18944 19845 Sample Number 18940	<0.001 0.005 Sn mg/l <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53	0.900 0.180 Sr mg/kg <0.020 71	1.7 7.1 mg/l <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020
E AWS Det Limit A B	18944 19845 Sample Number 18940 18941	<0.001 0.005 mg/l <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83	0.900 0.180 Sr mg/kg <0.020 71 57	1.7 7.1 Ta mg/l <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020
E AWS Det Limit A B C	18944 19845 Sample Number 18940 18941 18942	<0.001 0.005 mg/l <0.001 <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43	0.900 0.180 Sr mg/kg <0.020 71 57 89	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001	35 142 mg/kg <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C D	18944 19845 Sample Number 18940 18941 18942 18943	<0.001 0.005 mg/l <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49	0.900 0.180 Sr mg/kg <0.020 71 57 89 110	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001	35 142 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C C D E	18944 19845 Sample Number 18940 18941 18942 18943 18943	<0.001 0.005 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74	1.7 7.1 7.1 0.001 0.001 0.001 0.001 0.001 0.001 0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18942 18943 18944 19845	<0.001 0.005 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	35 142 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C D E AWS Sample Id	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 Te	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 Ti	35 142 mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020
E AWS Det Limit A B C C D E AWS Sample Id	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <te mg/l</te 	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg	1.7 7.1 7.1 0.001 0.001 0.001 0.001 0.001 0.001 0.001 7 1 Ti ma/l	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg
E AWS Det Limit A B C C D E AWS Sample Id Det Limit	18944 19845 Sample Number 18940 18941 18941 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.02	0.045 0.009 Sr 0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.001	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.020	1.7 7.1 7.1 0.001 0.001 0.001 0.001 0.001 0.001 0.001 7 1 mg/l 0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00
E AWS Sample Id Det Limit A C D E AWS Sample Id Det Limit A	18944 19845 Sample Number 18940 18941 18942 18943 18943 18944 19845 Sample Number 18940	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020	1.7 7.1 7.1 0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id Det Limit A B	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001	0.900 0.180 sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020	1.7 7.1 Ta mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 Ti mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id Det Limit A B C	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18941 18942	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Te mg/kg <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020	1.7 7.1 Ta mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.05 <0.05 <0.05 <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 Ti mg/kg <1.00 <1.00 <1.00
E AWS Det Limit A B C C D E AWS Sample Id Det Limit A B C D C D C D C D C D C D C D C D C D C	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18941 18942 18942	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 Ta mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D D E AWS Sample Id D et Limit A B C D E E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18942	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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E AWS Det Limit A B C D E AWS Sample Id Det Limit A B C D D E Limit A B C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18943 18943	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C C D E AWS Sample Id Det Limit A B C C D D t Limit A B C C D D E Limit A S AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18940 18941 18942 18943 18943	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C C D E AWS Sample Id Det Limit A B C C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18941 18942 18943 18944	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 Te mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.02	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id D E L AWS C Sample Id A Sample Id	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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E AWS Sample Id Det Limit A B C D E AWS Sample Id E AWS Sample Id	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18943 18943 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 U u mg/l	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 mg/l	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C C D E AWS Sample Id D E Limit A B C C D D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18942 18941 18942 18943 18944 18943 18944 19845 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.0	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 U U mg/l	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020	1.7 7.1 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D D E AWS Sample Id D E AWS Sample Id D E AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00	<0.020 0.100 Sn mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.	0.045 0.009 Sr mg/l <0.001 3.53 2.83 4.43 5.49 3.69 0.819 Th mg/l <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 U U mg/l <0.0001	0.900 0.180 Sr mg/kg <0.020 71 57 89 110 74 16 Th mg/kg <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 U mg/kg <0.0020	1.7 7.1 7.1 mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	35 142 Ta mg/kg <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <0.020 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00
E AWS Det Limit A B C D E AWS Sample Id D E AWS C D E AWS S AWS	18944 19845 Sample Number 18940 18941 18942 18943 18944 19845 Sample Number 18940 18944 19845 Sample Number 18944 19845	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id Det Limit A B C D E AWS Sample Id A B C D E AWS Sample Id A B C C D E AWS	18944 19845 Sample Number 18940 18940 18941 18942 18943 18944 19845 Sample Number 18940 18944 18942 18943 18944 18944 18944 18942 18944 18944 18942 18944 18942 18943 18944 18944 18942 18943 18944 18944 18945 Sample Number	<0.001 0.005 Sn mg/l <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 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		mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	<0.001	<0.020
3	18941	<0.001	<0.020	<0.001	<0.020
0	18942	<0.001	<0.020	<0.001	<0.020
כ	18943	<0.001	<0.020	<0.001	<0.020
	18944	<0.001	<0.020	<0.001	<0.020
AWS	19845	<0.001	<0.020	<0.001	<0.020



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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-31 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

i Telephone: 011 789 9495 Ce

Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

		Sample Ide	entification	
Analyses		٩	E	3
Sample number	189	940	189	941
TCLP / Acid Rain / Distilled Water / H_2O_2	TCI	.P 2	TCI	_P 2
Dry Mass Used (g)	5	0	5	0
Volume Used (mℓ)	10	00	10	00
pH Value at 25°C	4.7		4.7	
Electrical Conductivity in mS/m at 25°C	30	68	364	
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg
Alkalinity as CaCO₃	600	12 000	564	11 280
Chloride as Cl	<5	<100	<5	<100
Sulphate as SO₄	94	1 880	109	2 180
Nitrate as N	<0.2	<4.0	<0.2	<4.0
Fluoride as F	0.4	8.0	0.3	6.0
Phosphorus as P	0.3	6.0	0.4	8.0
ICP-MS Quant [s]	See attached repo	rt 42135 ICP TCLP	See attached report 42135 ICP TCLP	

[s] Subcontracted

TCLP 2 = pH2.9

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-31 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

; Telephone: 011 789 9495 C

Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

		Sample Ide	entification	
Analyses	(•)
Sample number	189	942	18	943
TCLP / Acid Rain / Distilled Water / H ₂ O ₂	TCI	_P 2	TCI	_P 2
Dry Mass Used (g)	5	0	5	0
Volume Used (mℓ)	10	00	10	00
pH Value at 25°C	4.8		5.1	
Electrical Conductivity in mS/m at 25°C	40	402		96
Units	mg/ℓ	mg/kg	mg/ℓ	mg/kg
Alkalinity as CaCO₃	1000	20 000	1776	35 520
Chloride as Cl	5	100	7	140
Sulphate as SO₄	118	2 360	81	1 620
Nitrate as N	<0.2	<4.0	<0.2	<4.0
Fluoride as F	0.4	8.0	0.8	16
Phosphorus as P	0.3	6.0	0.2	4.0
ICP-MS Quant [s]	See attached repo	rt 42135 ICP TCLP	P TCLP See attached report 42135 ICP TCLP	

[s] Subcontracted

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CERTIFICATE OF ANALYSES TCLP / ACID RAIN / DISTILLED WATER EXTRACTIONS

Date received: 2013-09-26 Project number: 1000

Report number: 42135

Date completed: 2013-10-31 Order number: SAS1691

Client name: Digby Wells Environmetal Address: Private Bag X 10046, Randburg, 2125 Facsimile: 011 789 9498

, Telephone: 011 789 9495 Contact person: Andre van Coller Email: andre.van.coller@digbywells.com Cell: 076 076 9443

Analyzan	Sample Ide	Sample Identification		
Analyses	E			
Sample number	189)44		
TCLP / Acid Rain / Distilled Water / H_2O_2	TCL	P 2		
Dry Mass Used (g)	5	0		
Volume Used (mℓ)	10	00		
pH Value at 25°C	4.7			
Electrical Conductivity in mS/m at 25°C	366			
Units	mg/ℓ	mg/kg		
Alkalinity as CaCO ₃	720	14 400		
Chloride as Cl	<5	<100		
Sulphate as SO₄	95	1 900		
Nitrate as N	<0.2	<4.0		
Fluoride as F	0.4 8.0			
Phosphorus as P	0.3	6.0		
ICP-MS Quant [s]	See attached report	t 42135 ICP TCLP		

[s] Subcontracted

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WATERLAB (PTY) LTD CERTIFICATE OF ANALYSES ICP-MS QUANTITATIVE ANALYSIS [s]

Date received: Project number:	26/09/2013 1000				Date Completed: Report number:	31/10/2013 42135	
Client name: Adress: Telephone:	Digby Wells Environ Private Bag X10046, 011 789 9495	mental Randburg, 2125			Contact person: Email:	Andre van Coller andre.van.coller@	digbywells.com
Extract	Sample Dry Mass (g)	Volume (ml)	Factor		[s]= Results obta	ined form subcont	racted laboratory
TCLP	50	1000	20		[0]		
Sample Id	Sample Number	Aq	Αα	AI	AI	As	As
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	17.7	354	0.023	0.455
B	18941	<0.001	<0.020	25.2	504	0.027	0.538
	18942	<0.001	<0.020	15.3	306	0.022	0.437
F	18944	<0.001	<0.020	12.3	246	0.010	0.513
-							
Sample Id	Sample Number	Au	Au	В	В	Ва	Ba
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
Α	18940	<0.001	<0.020	7.2	143	1.60	32
в	18941	<0.001	<0.020	8.9	178	1.49	30
с D	18942	<0.001	<0.020	8.9 6.2	178	1.34	21
E	18944	<0.001	<0.020	6.7	135	1.70	34
-							
Sample Id	Sample Number	Be	Be	Bi	Bi	Са	Са
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.01	<0.20
Α	18940	0.006	0.120	<0.001	<0.020	998	19960
В	18941	0.008	0.160	<0.001	<0.020	1000	20000
C	18942	0.006	0.120	< 0.001	<0.020	1140	22800
D F	18943	0.004	0.080	<0.001	<0.020	1400	28000
<u> </u>	10344	0.000	0.100	(0.001	<0.020	1010	20200
Sample Id	Sample Number	Cd	Cd	Ce	Се	Co	Со
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.0001	<0.0020	<0.001	<0.020	<0.001	<0.020
A	18940	0.0019	0.038	0.082	1.64	0.012	0.241
В	18941	0.0027	0.053	0.105	2.09	0.013	0.255
C	18942	0.0025	0.051	0.073	1.45	0.014	0.281
D F	18943	0.0021	0.042	0.060	1.20	0.013	0.259
E	10944	0.0057	0.014	0.070	1.50	0.011	0.220
Sample Id	Sample Number	Cr	Cr	Cs	Cs	Cu	Cu
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
А	18940	0.501	10	0.001	0.020	0.043	0.859
В	18941	0.591	12	0.001	0.020	0.031	0.624
C	18942	0.484	9.68	0.001	0.020	0.022	0.436
D F	18943	0.229	4.59	0.001	0.020	<0.001	<0.020
<u> </u>	10344	0.201	5.02	0.001	0.020	0.020	0.332
Sample Id	Sample Number	Fe	Fe	Ga	Ga	Ge	Ge
	•	mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.01	<0.20	<0.001	<0.020	<0.001	<0.020
A	18940	0.573	11	0.006	0.120	0.206	4.11
В	18941	0.818	16	0.010	0.200	0.250	5.01
C	18942	0.390	7.79	0.005	0.100	0.230	4.60
р Е	18943	0.207	4.14	0.003	0.060	0.149	2.97
L	10944	0.200	3.31	0.003	0.000	0.214	4.21
Sample Id	Sample Number	Hf	Hf	Ηα	На	Но	Но
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.200	<0.0001	<0.0020	<0.001	<0.200
A	18940	<0.001	<0.200	0.0002	0.004	0.007	0.140
B	18941	<0.001	<0.200	0.0002	0.004	0.008	0.160
C	18942	<0.001	<0.200	0.0001	0.002	0.006	0.120
р F	18943	<0.001	<0.200	0.0001	0.002	0.005	0.100
<u> </u>	10344		N.200	0.0001	0.002	0.000	0.120
Sample Id	Sample Number	lr	Ir	К	K	La	La
	•	mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.01	<0.20	<0.001	<0.020

		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.01	<0.20	<0.001	<0.020
A	18940	<0.001	<0.020	0.454	9.1	0.082	1.63
В	18941	<0.001	<0.020	0.524	10.5	0.098	1.96
C	18942	<0.001	<0.020	0.602	12.0	0.079	1.58
D	18943	<0.001	<0.020	0.457	9.1	0.064	1.29
E	18944	<0.001	<0.020	0.653	13.1	0.069	1.38

Sample Id	Sample Number	Li	Li	Mg	Mg	Mn	Mn
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg

Det Limit		<0.001	<0.020	<0.01	<0.200	<0.001	<0.020
A	18940	0.400	862	43.1	862	1.18	24
В	18941	0.510	750	37.5	750	1.26	25
c	18942	0.530	1074	53.7	1074	1.38	28
D	18943	0.410	1206	60.3	1206	1.58	32
E	18944	0.490	1064	53.2	1064	1.56	31
Sample Id	Sample Number	Мо	Мо	Na	Na	Nb	Nb
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	0.020	0.397	1.98	40	<0.001	<0.020
В	18941	0.019	0.388	2.56	51	<0.001	<0.020
C	18942	0.029	0.588	2.84	57	<0.001	<0.020
D	18943	0.027	0.546	2.74	55	<0.001	<0.020
F	18944	0.014	0.286	2.98	60	<0.001	<0.020
_							
Sample Id	Sample Number	Nd	Nd	Ni	Ni	Ph	Ph
Gampie la	Campie Number	ma/l	ma/ka	ma/l	ma/ka	ma/l	ma/ka
Dot Limit		-0.001	11g/kg	-0.001	-0.020	11g/1	-0.020
	19040	0.005	1.01	0.029	0.562	<0.001	<0.020
A	10940	0.095	0.47	0.020	0.303	<0.001	<0.020
<u>ь</u>	10941	0.109	2.17	0.025	0.434	0.002	0.040
	10942	0.090	1.91	0.025	0.310	<0.001	<0.020
5	10943	0.003	1.00	0.016	0.323	<0.001	<0.020
E	10944	0.001	1.02	0.012	0.241	0.004	0.000
		-				e :	
Sample Id	Sample Number	Pt	Pt	Rb	Rb	Sb	Sb
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
A	18940	<0.001	<0.020	0.004	0.080	0.015	0.300
В	18941	<0.001	<0.020	0.005	0.100	0.016	0.320
С	18942	<0.001	<0.020	0.005	0.100	0.016	0.320
D	18943	<0.001	<0.020	0.004	0.080	0.010	0.200
E	18944	<0.001	<0.020	0.005	0.100	0.016	0.320
Sample Id	Sample Number	Sc	Sc	Se	Se	Si	Si
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.05	<1.00
Α	18940	0.080	1.59	0.029	0.572	92.4	1848
В	18941	0.088	1.75	0.035	0.697	103.9	2078
С	18942	0.078	1.55	0.018	0.354	93.5	1870
D	18943	0.059	1.18	0.021	0.421	75.6	1512
E	18944	0.075	1.50	0.060	1.21	91.7	1834
Sample Id	Sample Number	Sn	Sn	Sr	Sr	Та	Та
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.001	<0.020	<0.001	<0.020
Α	18940	<0.001	<0.020	7.59	152	<0.001	<0.020
В	18941	<0.001	<0.020	7.18	144	<0.001	<0.020
С	18942	<0.001	<0.020	9.59	192	<0.001	<0.020
D	18943	<0.001	<0.020	13.00	260	<0.001	<0.020
E	18944	<0.001	<0.020	8.30	166	<0.001	<0.020
Sample Id	Sample Number	Те	Те	Th	Th	Ti	Ti
	•	mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.0001	<0.0020	<0.05	<1.00
A	18940	0.007	0.140	0.0002	0.004	0.029	0.584
В	18941	0.008	0.160	0.0003	0.006	0.042	0.831
С	18942	0.007	0.140	0.0002	0.004	0.022	0.436
D	18943	0.003	0.060	0.0001	0.002	0.014	0.277
E	18944	0.007	0.140	0.0001	0.002	0.015	0.307
					-		
Sample Id	Sample Number	TI	TI	U	U	V	V
		mg/l	mg/kg	mg/l	mg/kg	mg/l	mg/kg
Det Limit		<0.001	<0.020	<0.0001	<0.0020	<0.001	<0.020
A	18940	<0.001	<0.020	0.0181	0.362	0.298	5.97
В	18941	<0.001	<0.020	0.0219	0.437	0.320	6.40
С	18942	<0.001	<0.020	0.0177	0.353	0.390	7.79
<u> </u>							
D	18943	<0.001	<0.020	0.0089	0.178	0.131	2.63
E	18943 18944	<0.001 <0.001	<0.020 <0.020	0.0089 0.0073	0.178 0.146	0.131 0.309	2.63 6.18
E	18943 18944	<0.001 <0.001	<0.020 <0.020	0.0089 0.0073	0.178 0.146	0.131 0.309	2.63 6.18
E Sample Id	18943 18944 Sample Number	<0.001 <0.001 W	<0.020 <0.020 W	0.0089 0.0073	0.178 0.146	0.131 0.309	2.63 6.18
E Sample Id	18943 18944 Sample Number	<0.001 <0.001 W mg/l	<0.020 <0.020 W mg/kg	0.0089 0.0073 Y mg/l	0.178 0.146 Y mg/kg	0.131 0.309	2.63 6.18
E Sample Id Det Limit	18943 18944 Sample Number	<0.001 <0.001 W mg/l <0.001	<0.020 <0.020 W mg/kg <0.020	0.0089 0.0073 Y mg/l <0.001	0.178 0.146 Y mg/kg <0.020	0.131	2.63 6.18
E Sample Id Det Limit	18943 18944 Sample Number 18940	<0.001 <0.001 W mg/l <0.001 0.001	<0.020 <0.020 W mg/kg <0.020 0.020	0.0089 0.0073 Y mg/l <0.001 0.209	0.178 0.146 Y mg/kg <0.020 4.18	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B	18943 18944 Sample Number 18940 18941	<0.001 <0.001 W mg/l <0.001 0.001 0.002	<0.020 <0.020 W mg/kg <0.020 0.020 0.040	0.0089 0.0073 Y mg/l <0.001 0.209 0.230	0.178 0.146 Y <0.020 4.18 4.60	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C	18943 18944 Sample Number 18940 18941 18942	<0.001 <0.001 W mg/l <0.001 0.002 0.002	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201	0.178 0.146 y mg/kg <0.020 4.18 4.60 4.02	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C D	18943 18944 Sample Number 18940 18941 18942 18943	<0.001 <0.001 W mg/l <0.001 0.001 0.002 0.002 0.002	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.211	0.178 0.146 y mg/kg <0.020 4.18 4.60 4.02 3.50	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C C D E	18943 18944 Sample Number 18940 18941 18942 18943 18943	<0.001 <0.001 W mg/l <0.001 0.001 0.002 0.002 0.002 0.002	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.040 0.020	0.0089 0.0073 y mg/l <0.001 0.209 0.230 0.201 0.201 0.175 0.179	0.178 0.146 Y mg/kg <0.020 4.18 4.60 4.02 3.50 3.59	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C C D E	18943 18944 Sample Number 18940 18941 18942 18943 18944	<0.001 <0.001 W mg/l <0.001 0.001 0.002 0.002 0.002 0.002 0.002	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.020	0.0089 0.0073 Y mg/l <0.001 0.209 0.201 0.201 0.175 0.179	0.178 0.146 Y mg/kg <0.020 4.18 4.60 4.02 3.50 3.59	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C C D E Sample Id	18943 18944 Sample Number 18940 18940 18941 18942 18943 18943 18944 Sample Number	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.001 Zn	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.020 Zn	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.179 Zr	0.178 0.146 Y mg/kg <0.020 4.18 4.60 4.02 3.50 3.59 Zr	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C D E Sample Id	18943 18944 Sample Number 18940 18940 18941 18942 18943 18944 Sample Number	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.001 Zn mg/l	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.040 0.020 Zn mg/kg	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.179 Zr mg/l	0.178 0.146 Y mg/kg <0.020 4.18 4.60 4.02 3.50 3.59 Zr mg/kg	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C D E Sample Id Det Limit	18943 18944 Sample Number 18940 18940 18941 18942 18943 18943 18944 Sample Number	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.001 Zn mg/l <0.001	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.040 0.020 Zn mg/kg <0.020	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.179 Zr mg/l <0.001	0.178 0.146 Y Ymg/kg<0.0204.184.604.023.503.59Zrmg/kg<0.020	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C D E Sample Id Det Limit A	18943 18944 Sample Number 18940 18941 18942 18943 18944 Sample Number 18940	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.001 Zn mg/l <0.001 0.158	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.020 Zn mg/kg <0.020 3.15	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.179 Zr mg/l <0.001	0.178 0.146 y (0.020 4.18 4.60 4.02 3.50 3.59 Zr mg/kg <0.020 0.020	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C D E Sample Id Det Limit A B	18943 18944 Sample Number 18940 18941 18942 18943 18944 Sample Number 18940 18940 18941	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.001 Zn mg/l <0.001 0.158 0.219	<0.020 <0.020 W mg/kg <0.020 0.040 0.040 0.040 0.040 0.020 Zn mg/kg <0.020 3.15 4.38	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.179 Zr mg/l <0.001 0.001	0.178 0.146 y (0.020 4.18 4.60 4.02 3.50 3.59 Zr mg/kg <0.020 0.020 0.020	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C D E Sample Id Det Limit A B C	18943 18944 Sample Number 18940 18941 18942 18943 18944 Sample Number 18944 18944 18944 18944 18944 18944 18941 18941 18942	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.001 Zn mg/l <0.001 0.158 0.219 0.199	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.040 0.020 Zn mg/kg <0.020 3.15 4.38 3.98	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.175 0.179 Zr mg/l <0.001 0.001 0.001	0.178 0.146 Y mg/kg <0.020 4.18 4.60 4.02 3.50 3.59 Zr mg/kg <0.020 0.020 0.020 0.020	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C C D E Sample Id Det Limit A 3 C D D C D C C C C C C C C C C C C C C	18943 18944 Sample Number 18940 18941 18942 18943 18944 Sample Number 18941 18944 Sample Number 18941 18940 18941 18942 18943	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.001 Zn mg/l <0.001 0.158 0.219 0.199 0.146	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.040 0.020 Zn mg/kg <0.020 3.15 4.38 3.98 2.92	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.175 0.179 Zr mg/l <0.001 0.001 0.001 0.001 <0.001	0.178 0.146 Y mg/kg <0.020 4.18 4.60 4.02 3.50 3.59 Zr mg/kg <0.020 0.020 0.020 0.020 <0.020	0.131 0.309	2.63 6.18
E Sample Id Det Limit A B C D E Sample Id Det Limit A B C D D D E D D E C D E C C D E E E E E E	18943 18944 Sample Number 18940 18941 18942 18943 18944 Sample Number 18940 18940 18941 18942 18943 18943	<0.001 <0.001 W mg/l <0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.001 V Cn mg/l <0.001 0.158 0.219 0.199 0.146 0.293	<0.020 <0.020 W mg/kg <0.020 0.020 0.040 0.040 0.040 0.040 0.020 Zn mg/kg <0.020 3.15 4.38 3.98 2.92 5.86	0.0089 0.0073 Y mg/l <0.001 0.209 0.230 0.201 0.175 0.179 Zr mg/l <0.001 0.001 0.001 0.001 <0.001 <0.001	0.178 0.146 Y mg/kg <0.020 4.18 4.60 4.02 3.50 3.59 Zr mg/kg <0.020 0.020 0.020 0.020 <0.020 <0.020 <0.020	0.131 0.309	2.63 6.18



Appendix B: Leachate result classification

									Result	s for ch	emical	s that ar	e of hea	lth sign	ificance	e in drin	king-wa	ter											
Parameter	pH	Total Alk	F	CI	NO3 as N	SO4	AI	As	B*	Ba*	Ca	Cd	Co	Cr	Cu	Fe	Hg	к	Mg	Mn	Mo*	Na	Ni	Pb	Sb	Se	V	Zn	U*
Unit	-	mg/I CaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Class 1																													
(recommend																													
ed limit)	5 - 9.5	N/A	1	200	10	400	0.3	0.01			150	0.0050	0.5	0.1	1	0.2	0.001	50	70	0.1		200	0.15	0.02	0.01	0.02	0.2	5	
Class 2 (max allowed for limited duration)	4 - 5 / 9.5 - 10	N/A	1.5	600	20	600	0.5	0.05			300	0.0100	1	0.5	2	2	0.005	100	100	1		400	0.35	0.05	0.05	0.05	0.5	10	
Class 3 (not																													
recommende																													
d for																													
consumtion)	<4 / >10	N/A	>1.5	>600	>20	>600	>0.5	>0.05	0.5	0.7	>300	>0.01	>1	>0.5	>2	>2	>0.005	>100	>100	>1	0.07	>400	>0.35	>0.05	>0.05	>0.05	>0.5	>10	0.015
Α	12.2	790	0.6	<5	<0.2	22	3.0	0.001	2.6	3.0	322	0.0002	< 0.001	0.25	< 0.001	< 0.01	0.0006	0.15	< 0.01	< 0.001	0.06	1.27	0.024	< 0.001	0.002	0.042	0.01	<0.001	< 0.0001
В	12.1	612	0.5	<5	<0.2	31	4.5	0.001	2.6	2.2	282	0.0002	< 0.001	0.36	< 0.001	< 0.01	0.0007	0.17	< 0.01	<0.001	0.07	1.47	< 0.001	< 0.001	0.002	0.072	0.02	<0.001	< 0.0001
С	12.3	1020	1	<5	<0.2	9	0.7	0.002	0.4	4.0	440	0.0002	< 0.001	0.18	< 0.001	< 0.01	0.0005	0.16	< 0.01	0.01	0.05	1.61	< 0.001	< 0.001	0.001	0.014	0.01	<0.001	< 0.0001
D	12.4	1368	0.7	<5	<0.2	<5	0.5	0.001	0.1	11.0	560	0.0001	< 0.001	0.06	< 0.001	< 0.01	0.0002	0.10	< 0.01	< 0.001	0.03	1.54	< 0.001	< 0.001	0.001	0.025	0.004	<0.001	< 0.0001
E	12.2	732	0.8	<5	<0.2	23	2.1	0.001	2.0	3.9	327	0.0001	< 0.001	0.11	< 0.001	< 0.01	0.0006	0.04	< 0.01	< 0.001	0.05	2.04	< 0.001	< 0.001	0.002	0.045	0.01	< 0.001	< 0.0001
AWS	11.4	136	0.6	8	<0.2	22	3.6	0.003	1.4	0.4	65	0.0001	< 0.001	0.09	< 0.001	< 0.01	0.0003	0.43	< 0.01	0.01	0.03	6.12	< 0.001	< 0.001	0.004	0.009	0.14	< 0.001	0.0003
Average	12.1	776	1	8	<0.2	21	2.4	0.002	1.5	4.1	333	0.0002	<0.001	0.18	<0.001	<0.01	0.0005	0.18	<0.01	0.01	0.05	2	0.024	<0.001	0.002	0.035	0.03	<0.001	0.0003

Distilled water leach results compared to Drinking water guidelines

									Res	ults for	chemic	als that	are not	of healt	h signif	icance i	n drinkir	ng-wate	er											
Parameter	Ag	Au	Be	Bi	Ce	Cs	Ga	Ge	Hf	Но	lr	La	Li	Nb	Nd	Pt	Rb	Sc	Si	Sn	Sr	Та	Те	Th	Ti	TI	w	Y	Zr	Р
Unit	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Α	< 0.001	<0.001	< 0.001	< 0.001	<0.001	0.001	0.07761	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.3	<0.001	< 0.001	< 0.001	0.002	0.001	1.54	< 0.001	3.52844	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.04282	< 0.001	< 0.001	< 0.025
В	< 0.001	<0.001	<0.001	< 0.001	<0.001	0.001	0.10324	< 0.001	<0.001	< 0.001	<0.001	<0.001	0.37	<0.001	< 0.001	< 0.001	0.002	0.001	2.04	<0.001	2.83379	<0.001	<0.001	< 0.0001	< 0.05	< 0.001	0.0523	< 0.001	<0.001	<0.025
С	< 0.001	<0.001	< 0.001	< 0.001	<0.001	0.001	0.05611	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.33	< 0.001	< 0.001	< 0.001	0.002	< 0.001	0.95	< 0.001	4.42868	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.03361	< 0.001	< 0.001	< 0.025
D	0.001	<0.001	<0.001	< 0.001	<0.001	0.001	0.04159	< 0.001	<0.001	< 0.001	<0.001	<0.001	0.26	<0.001	< 0.001	< 0.001	0.002	< 0.001	0.54	<0.001	5.48622	<0.001	<0.001	< 0.0001	< 0.05	< 0.001	0.01705	< 0.001	<0.001	<0.025
E	< 0.001	<0.001	< 0.001	< 0.001	<0.001	0.001	0.08177	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.37	<0.001	< 0.001	< 0.001	0.002	< 0.001	1.73	< 0.001	3.69389	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.04066	< 0.001	<0.001	< 0.025
AWS	< 0.001	<0.001	< 0.001	< 0.001	<0.001	< 0.001	0.02814	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.07	<0.001	< 0.001	< 0.001	0.002	0.005	7.09	<0.001	0.81868	<0.001	< 0.001	< 0.0001	< 0.05	< 0.001	0.02342	<0.001	<0.001	< 0.025

TCLP results compared to Drinking water guidelines

									Res	sults fo	r chemi	cals that a	are of h	nealth si	gnificance	e in drir	nking-wa	ater											
Parameter	pН	Total Alk	F	CI	NO3 as N	SO4	AI	As	B*	Ba*	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Mg	Mn	Mo*	Na	Ni	Pb	Sb	Se	V	Zn	U*
Unit	-	mg/l CaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Class 1																													
(recommended																													1
limit)	5 - 9.5	N/A	1	200	10	400	0.3	0.01			150	0.0050	0.5	0.1	1	0.2	0.001	50	70	0.1		200	0.15	0.02	0.01	0.02	0.2	5	1
Class 2 (max																													1
allowed for																													1
limited duration)	4 - 5 / 9.5 - 10	N/A	1.5	600	20	600	0.5	0.05			300	0.0100	1	0.5	2	2	0.005	100	100	1		400	0.35	0.05	0.05	0.05	0.5	10	1
Class 3 (not																													1
recommended																													1
for consumtion)	<4 / >10	N/A	>1.5	>600	>20	>600	>0.5	>0.05	0.5	0.7	>300	>0.01	>1	>0.5	>2	>2	>0.005	>100	>100	>1	0.07	>400	>0.35	>0.05	>0.05	>0.05	>0.5	>10	0.015
Α	4.7	600	0.4	<5	<0.2	94	18	0.023	7.2	1.6	998	0.002	0.012	0.50	0.043	0.6	0.0002	0.45	43.1	1.18	0.020	1.98	0.028	< 0.001	0.015	0.029	0.30	0.2	0.018
В	4.7	564	0.3	<5	< 0.2	109	25	0.027	8.9	1.5	1000	0.003	0.013	0.59	0.031	0.8	0.0002	0.52	37.5	1.26	0.019	2.56	0.023	0.002	0.016	0.035	0.32	0.2	0.022
С	4.8	1000	0.4	5	< 0.2	118	15	0.022	8.9	1.3	1140	0.003	0.014	0.48	0.022	0.4	0.0001	0.60	53.7	1.38	0.029	2.84	0.025	< 0.001	0.016	0.018	0.39	0.2	0.018
D	5.1	1776	0.8	7	< 0.2	81	8	0.010	6.2	1.8	1400	0.002	0.013	0.23	< 0.001	0.2	0.0001	0.46	60.3	1.58	0.027	2.74	0.016	< 0.001	0.010	0.021	0.13	0.1	0.009
E	4.7	720	0.4	<5	<0.2	95	12	0.026	6.7	1.7	1010	0.004	0.011	0.28	0.020	0.3	0.0001	0.65	53.2	1.56	0.014	2.98	0.012	0.004	0.016	0.060	0.31	0.3	0.007
Average	4.8	932	0.46	6	<0.2	99.4	16	0.021	7.6	1.6	1109.6	0.003	0.013	0.42	0.029	0.5	0.0001	0.54	49.56	1.39	0.022	2.62	0.021	0.003	0.015	0.03	0.29	0.2	0.015

									Re	esults fo	or chem	icals that	are no	ot of hea	lth signific	ance ir	n drinkin	g-water												
Parameter	Ag	Au	Be	Bi	Ce	Cs	Ga	Ge	Hf	Но	lr	La	Li	Nb	Nd	Pt	Rb	Sc	Si	Sn	Sr	Та	Те	Th	Ti	TI	W	Y	Zr	Ρ
Unit	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l ı	ng/l
Α	< 0.001	<0.001	0.006	< 0.001	0.082215	0.001	0.006	0.2056	< 0.001	0.007	< 0.001	0.08163	0.4	< 0.001	0.09544	<0.001	0.004	0.07957	92.39	< 0.001	7.591487	< 0.001	0.007	0.0002	0.0292	< 0.001	0.001	0.20917	0.001	0.3
В	< 0.001	< 0.001	0.008	< 0.001	0.10458	0.001	0.01	0.25041	< 0.001	0.008	< 0.001	0.09816	0.51	< 0.001	0.10871	<0.001	0.005	0.08756	103.89	< 0.001	7.176271	< 0.001	0.008	0.0003	0.04156	< 0.001	0.002	0.22996	0.001	0.4
C	< 0.001	<0.001	0.006	< 0.001	0.072592	0.001	0.005	0.22994	< 0.001	0.006	< 0.001	0.07905	0.53	< 0.001	0.09574	<0.001	0.005	0.07751	93.49	< 0.001	9.586995	< 0.001	0.007	0.0002	0.02182	< 0.001	0.002	0.20108	0.001	0.3
D	< 0.001	<0.001	0.004	< 0.001	0.060197	0.001	0.003	0.14865	< 0.001	0.005	< 0.001	0.06432	0.41	< 0.001	0.08297	<0.001	0.004	0.05888	75.59	< 0.001	13.0024	< 0.001	0.003	0.0001	0.01383	< 0.001	0.002	0.17511	<0.001	0.2
E	< 0.001	<0.001	0.005	< 0.001	0.078231	0.001	0.003	0.21363	< 0.001	0.006	< 0.001	0.06878	0.49	< 0.001	0.08124	<0.001	0.005	0.07525	91.69	< 0.001	8.301456	< 0.001	0.007	0.0001	0.01534	< 0.001	0.001	0.17942	<0.001	0.3