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Samantha Richardson Chief Operating Officer Bennett Resources Pty Ltd



11 March 2022

ERM Reference: 0594916

Dear Samantha,

Subject: Valhalla Baseline Air Quality Monitoring Six Monthly Report

1. INTRODUCTION

Bennett Resources Pty Ltd (BNR) has commissioned ERM Australia Pacific Pty Ltd (ERM) to provide oversight of the implementation of a baseline ambient air quality monitoring program for the Valhalla Gas Exploration and Appraisal Program (the Project). This report provides details of the monitoring locations, methodology, laboratory procedures, and monitoring results from 24 June 2021 to 21 November 2021.

2. MONITORING PROGRAM

The monitoring program has been implemented to gather information on baseline levels of the following pollutants:

- Particulate matter less than 10 microns in aerodynamic diameter (PM₁₀);
- Particulate matter less than 2.5 microns in aerodynamic diameter (PM_{2.5});
- Deposited dust;
- Volatile organic compounds (VOCs); and
- Methane.

Monitoring has been conducted across a total of five locations, inclusive of two locations in the proximity of community receptors (AQ_CS, AQ_CN) and three locations in the vicinity of proposed project infrastructure (AQ_S1-S3). These extend over a distance of approximately 66 km between the northernmost and southernmost monitoring locations.

The coordinates and pollutants monitored at each monitoring location are tabulated in Table 2.1. Figure 2.1 shows these locations overlaid on aerial imagery.

	Leastian ID	Location (MGA94, Zone 51K)		Pollutants Monitored					
	LOCATION ID	Easting (mE)	Northing (mN)	PM _{2.5}	PM ₁₀	Deposited Dust	VOCs	Methane	
Ī	AQ_CS	696 179	7957 536	✓	√	✓	\checkmark		
	AQ_CN	676 816	8020 196	✓	✓	✓	\checkmark		
	AQ_S1	686 474	8003 892	-	-	-	-	✓	
	AQ_S2	696 945	7979 790	✓	✓	✓	\checkmark	✓	
	AQ S3	697 114	7973 523	-	-	-	-	✓	

 Table 2.1: Summary of monitoring locations and pollutants monitored

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Figure 2.1: Aerial image showing monitoring locations

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3. CLIMATE

As mentioned in Section 1, the baseline monitoring has been conducted between June and November. In the northern parts of Western Australia, the dry season is typically between May and October which covers five of the six months of the baseline monitoring. The wet season is typically between November and April. The closest Bureau of Meteorology (BoM) automatic weather station to the Project is Fitzroy Crossing Aerodrome, located approximately 75 km to the north east. Table 3.1 presents temperature and rainfall statistics for this station.

It is noted that the highest mean maximum temperature is experienced in November and the lowest mean minimum temperature is experienced in July. The highest mean rainfall is experienced during January and the lowest mean rainfall is experienced during September.

Parameter	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean maximum temperature (°C)	37.6	36.9	37.1	36.9	33.3	30.5	31.1	33.4	37.5	40.3	40.9	39.3
Mean minimum temperature (°C)	25.2	24.8	24.0	20.8	16.0	13.1	12.3	13.6	18.5	23.1	25.6	25.8
Mean rainfall (mm)	185.8	144.4	108.1	24.9	15.8	6.5	5.2	2.6	0.4	13.9	31.4	136.2

Table 3.1: Selected climate statistics for BoM Fitzroy Crossing Aerodrome (#3093)

4. MONITORING METHODOLOGY

4.1 Particulate matter

4.1.1 Overview

Monitoring of PM_{10} and $PM_{2.5}$ has been conducted at three locations using a Thomson Environmental Systems (TES) Dust Master Pro 7000 continuous monitors. The monitoring equipment was installed by Bennett Resources. Monitoring data was collected on an hourly basis and then 24-hour averages were calculated. The validated daily average PM_{10} and $PM_{2.5}$ concentrations have been provided by TES. The monitors were installed on 22 June and 23 June 2021.

4.1.2 Monitoring Criteria

The monitoring results have been compared against the National Environment Protection Measure Ambient Air Quality (NEPM AAQ) standards. Table 4.1 presents the NEPM AAQ standards for particulate matter.

Pollutant	Averaging Period	Criteria (µg/m³)	Source	
Particulate matter (as	24 hour	50	National Environment	
PM ₁₀)	Annual	25	Protection Measure	
Particulate matter (as	24 hour	25	Ambient Air Quality	
PM _{2.5})	Annual	8		

Table	4.1:	NEPM	AAQ	standards
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4.2 Dust deposition

4.2.1 Sampling procedure

The monitoring of dust deposition has been conducted using dust deposition gauges. Sampling of deposited dust occurred in monthly intervals and has been conducted at three monitoring locations. The gauges were installed on 21 June and 22 June 2021.

4.2.2 Laboratory analysis

The dust deposition samples have been analysed for ash content, combustible matter and total insoluble matter by ALS Laboratories, who hold NATA accreditation for the analysis.

4.2.3 Monitoring Criteria

The deposited dust results have been compared against an annual average criterion of $4 \text{ g/m}^2/\text{month}$.

4.3 Volatile organic compounds (VOCs)

The sampling method has involved the collection of 24-hour time-integrated samples into 6-litre Silonite[®]-lined evacuated canisters, with canister preparation and post-sampling analysis undertaken by ALS laboratories who are NATA accredited for the TO-15 analytical method.

4.3.1 Sampling Procedure

Prior to sample collection, each canister is cleaned and laboratory certified. This procedure ensures that the canisters are free of residual contamination prior to sample collection. Sample collection involved connecting a calibrated flow regulator to the canister inlet and opening the inlet valve such that a sample is drawn into the canister at a steady, continuous rate over the 24-hour sampling period. At the completion of sampling, the canister valve is closed, the remaining vacuum recorded, and the canister returned to the laboratory for analysis.

4.3.2 Laboratory analysis

Evacuated canister samples have been analysed for the following VOCs:

- Benzene;
- Toluene;
- Ethylbenzene; and
- Xylenes (as sum of meta-, para- and ortho- isomers).

A 'limit of reporting' (LOR) of 0.5 parts per billion by volume (ppbv) was attained for each compound analysed via TO-15. In the case of xylenes, the LOR applies to each individual isomer, equating to a total LOR of 1.5 ppbv.

4.3.3 Laboratory Quality Control Procedures

Laboratory quality control (QC) procedures were undertaken on each sample batch to ensure the accuracy of the laboratory analysis. These procedures included:

 Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits – The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity.

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Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Duplicate Control Spike (DCS) Report; Recovery and Acceptance Limits – The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control terms Laboratory Control Sample (LCS) and Laboratory Duplicate Control Sample (DCS) refers to certified reference materials, or known interference free matrices spiked with target analytes. The purpose of these QC parameters is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS and DCS.

All samples have been assessed to be compliant with all QC standards. A copy of the Chain of Custody (COC) documentation is provided in Appendix A. A copy of the Laboratory Certificates of Analysis is provided in Appendix B.

4.3.4 Screening Criteria

Screening criteria have been compiled to provide a means of assessing whether monitoring results are elevated so as to warrant additional investigation. With this objective, the following sources of screening criteria were adopted:

- NEPM Air Toxics Monitoring Investigation Levels (MILs), (NEPC, 2011); and
- ATSDR Minimal Risk Levels (MRLs), (ATSDR, 2017).

MILs provided within NEPC (2011) have been adopted as a priority, given their endorsement in a local context as part of the NEPM Air Toxics program. In this role, the MILs are applied by each state government in screening whether ambient VOC monitoring results are indicative of the need for detailed investigation.

ATSDR MRLs have been adopted as screening criteria for VOC/averaging period combinations for which MILs are not available. This approach has been adopted given the compatibility in the intended application of the MRLs, which are also provided as a screening tool for assessing where potential health effects should be considered more closely.

As further context, it is also noted the ATSDR MRLs are considered extensively in the derivation of MILs (NEPC, 2004), and are in some cases identical to the corresponding MILs (e.g. benzene). It is also noted that exceedances of either MILs or MRLs do not mean that adverse health effects will occur. Table 4.2 provides a summary of the adopted screening criteria.

VOC	Averaging Period	Screening Criteria (µg/m³)	Source
Benzene	24 hour	29	ATSDR (2017)
	Annual	9.6	NEPC (2011)
Toluene	24 hour	24 hour 3,770	
	Annual	377	NEFC (2011)
Ethylbenzene	24 hour	21,700	
	Annual	260	ATSDR (2017)
Xylenes	24 hour	1,085	
	Annual	868	NEFC (2011)

Table 4.2: Summary of adopted screening criteria

Notes:

- ATSDR (2017) acute and chronic MRLs applied as representative of 24 hour and annual average criteria (respectively).

- All values converted from volumetric to mass-based units at conditions of 25°C and 1 atmosphere.

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24-hour criteria are suitable for the assessment of individual monitoring results, whilst annual criteria are suitable for the assessment of average concentrations across multiple monitoring events.

5. MONITORING RESULTS

This section presents the monitoring results for particulate matter, the dust deposition, VOCs and methane from 24 June 2021 to 21 November 2021.

5.1 Particulate matter

Table 5.1 to Table 5.5 present the maximum 24-hour average and monthly average PM_{10} and $PM_{2.5}$ concentrations at the three monitoring locations for each month of the monitoring data.

Table 5.6 presents a summary of the maximum 24-hour average and monthly average PM_{10} and $PM_{2.5}$ concentrations at the three monitoring locations for all months of monitoring. For PM_{10} , Location 399 (AQ_S2) has the highest maximum 24-hour average concentration (303 μ g/m³), the highest period average (80.1 μ g/m³) and the most exceedances of the 24-hour average criterion at 96. For PM_{2.5}, Location 397 (AQ_CS) has the highest maximum 24-hour average concentration (30.3 μ g/m³), the highest period average (8.2 μ g/m³) and had the only exceedance of the 24-hour average criterion. Location 398 (AQ_CN) experienced the lowest values for both PM₁₀ and PM_{2.5} of the three sites.

The monitoring has been conducted for five months and for indicative purposes the period average from June to November has been compared to annual average criteria of 25 μ g/m³ and 8 μ g/m³ for PM₁₀ and PM_{2.5}, respectively. There are exceedances of the annual average PM₁₀ criteria at location 397 (AQ_CS) and location 399 (AQ_S2). There are exceedances of the annual average PM_{2.5} criteria at location 397 (AQ_CS).

At monitoring location 397 (AQ_CS), there was either no data or insufficient data capture (due to solar power cuts) during the following dates:

- 8 July 2021;
- 2 September 2021 through to 20 October 2021; and
- 22 October 2021.

At monitoring location 398 (AQ_CN), there was no data collected on 24th June but this was the day of installation. All other dates have sufficient data capture.

At monitoring location 399 (AQ_S2), there was either no data or insufficient data capture (due to solar power cuts and battery issues) during the following dates:

- 11 October 2021 through to 20 October 2021; and
- 30 October 2021 through to 21 November 2021.

In addition, at this location there were 16 consecutive days from 16 August to 31 August where PM_{10} concentrations were 0.3 μ g/m³ or less and $PM_{2.5}$ concentrations were 0 μ g/m³. This data provided has been validated but it is worth noting.

Figure 5.1 to Figure 5.3 present the daily average PM₁₀ and PM_{2.5} concentrations at locations 397 (AQ_CS), 398 (AQ_CN) and 399 (AQ_S2) for the entire monitoring period.

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Table 5.1: Summary of PM₁₀ and PM_{2.5} concentrations – June/July 2021

Deveneder		Unite		
Parameter	AQ_CS	AQ_CN	AQ_S2	Onits
PM ₁₀				
Maximum 24 hour average	85.8	14.9	282.3	ug/m ³
Monthly average	27.5	9.1	100.2	μg/m
Exceedances of 24 hour criterion	5	0	25	-
PM _{2.5}				
Maximum 24 hour average	15.3	2.6	14.3	ug/m ³
Monthly average	4.4	1.4	6.2	μg/m
Exceedances of 24 hour criterion	0	0	0	-

Table 5.2: Summary of PM₁₀ and PM_{2.5} concentrations – July/August 2021

Durant		Unito		
Parameter	AQ_CS AQ_CN		AQ_S2*	Units
PM ₁₀				
Maximum 24 hour average	95.3	23.5	303.0	ug/m ³
Monthly average	33.0	13.1	104.5	µу/ш
Exceedances of 24 hour criterion	6	0	24	-
PM _{2.5}				
Maximum 24 hour average	13.9	11.1	15.9	ug/m ³
Monthly average	4.9	3.5	6.8	µу/ш
Exceedances of 24 hour criterion	0	0	0	-

Notes: *Three days in this month where PM_{10} concentrations were equal to or less than 0.2 μ g/m³ and $PM_{2.5}$ concentrations were 0 μ g/m³

Table 5.3: Summary of PW10 and PW2.5 concentrations – August/September 202	Fable 5.3: Summary	/ of PM10 and PM2.5	concentrations -	August/Septembe	r 2021
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Demonster		Unite			
Parameter	AQ_CS*	AQ_CN	AQ_S2**	Units	
PM 10			·		
Maximum 24 hour average	134.4	48.0	244.2	ua/m ³	
Monthly average	64.4	21.6	54.0	μg/m ^s	
Exceedances of 24 hour criterion	9	6	21	-	
PM _{2.5}	<u> </u>				
Maximum 24 hour average	20.9	11.4	16.4	ua/m ³	
Monthly average	11.0	6.3	4.5	μg/m	
Exceedances of 24 hour criterion	0	0	0	-	

Notes: *Only 14 days of sufficient data capture at this location. ** 13 days in this month where PM_{10} concentrations were equal to or less than 0.3 µg/m³ and $PM_{2.5}$ concentrations were 0 µg/m³.

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Table 5.4: Summary of PM10 and PM2.5 concentrations – September/October 2021

Demonster		Unite			
Parameter	AQ_CS	AQ_CN	AQ_S2*	- Onits	
PM ₁₀					
Maximum 24 hour average	NA	26.2	231.2	11g/m ³	
Monthly average	NA	15.0	74.8	μθ/μι	
Exceedances of 24 hour criterion	NA	2	19	-	
PM _{2.5}					
Maximum 24 hour average	NA	9.7	19.0	11g/m ³	
Monthly average	NA	5.2	7.2	- µg/m³	
Exceedances of 24 hour criterion	NA	0	0	-	

Notes: NA = insufficient data capture. * Only 21 days of sufficient data capture at this location.

Table 5.5: Summary of PM₁₀ and PM_{2.5} concentrations – October/November 2021

Devenueter		Unite			
Parameter	AQ_CS AQ_CN		AQ_S2*	- Units	
PM ₁₀					
Maximum 24 hour average	103.0	82.0	92.1	ua/m ³	
Monthly average	39.5	13.2	45.4	µg/m-	
Exceedances of 24 hour criterion	10	1	7	-	
PM _{2.5}					
Maximum 24 hour average	30.3	15.0	6.3	ua/m ³	
Monthly average	13.1	4.4	5.8	µg/m³	
Exceedances of 24 hour criterion	1	0	0	-	

Notes: *Only 7 days of sufficient data capture at this location.

Table 5.6: Summary of PM₁₀ and PM_{2.5} concentrations – June to November 2021

Devenuetor		Unite			
Parameter	AQ_CS	AQ_CN	AQ_S2	Units	
PM ₁₀					
Maximum 24 hour average	134.4	82.0	303.0	ug/m ³	
6 monthly	38.3	14.7	80.1	ру/ш	
Exceedances of 24 hour criterion	61	9	96	-	
PM _{2.5}					
Maximum 24 hour average	30.3	15.0	19.0	ua/m ³	
6 monthly average	8.2	4.3	6.0	рулп	
Exceedances of 24 hour criterion	1	0	0	-	

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Figure 5.1: Daily average PM₁₀ and PM_{2.5} concentrations at location 397 (AQ_CS) from June 2021 to November 2021

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Figure 5.2: Daily average PM₁₀ and PM_{2.5} concentrations at location 398 (AQ_CN) from June 2021 to November 2021

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Figure 5.3: Daily average PM₁₀ and PM_{2.5} concentrations at location 399 (AQ_S2) from June 2021 to November 2021

5.2 Deposited dust

Table 5.7 presents the dust deposition results at the three monitoring locations. The six-month average of the total insoluble solids results is compared against the annual average criteria of 4 g/m²/month. There are two exceedances of the adopted criteria for the period October/November, both in the location AQ_CS. Those exceedances are 19.9 g/m²/month of ash content and 21.5 g/m²/month of total insoluble matter. During October, it is noted that there was a significant fire around the three monitoring locations (NAFI, 2022).

In June/July and July/August, the lower PM concentrations seen in the continuous monitoring at AQ_CN is reflected in the dust deposition results.

		AQ_CS			AQ_CN			AQ_S2	
Period	Ash Content	Comb. Matter	Total Insoluble Matter	Ash Content	Comb. Matter	Total Insoluble Matter	Ash Content	Comb. Matter	Total Insoluble Matter
Jun / Jul	1	<0.1	1	0.5	<0.1	0.5	1.6	0.7	2.3
Jul / Aug	2	0.3	2.3	0.2	<0.1	0.2	1.2	0.1	1.3
Aug / Sep	3.2	0.8	4.0	2.2	1.2	3.4	0.9	0.1	1.0
Sep / Oct	2.1	0.1	2.2	0.5	0.1	0.6	0.9	<0.1	0.9
Oct / Nov	19.9	1.6	21.5	0.9	<0.1	0.9	2.1	0.2	2.3
Average	5.6	0.6	6.2	0.9	0.3	1.1	1.3	0.2	1.6
Criterion	-	-	4*	-	-	4*	-	-	4*

Table 5.7: Summary of dust deposition results

Note: "<" - Less than limit of reporting (LOR). *Average of 6 monthly samples compared to annual criterion for contextual purposes.

5.3 VOCs

Table 5.8 provides a summary of reported concentrations for VOCs at three monitoring locations AQ_CS, AQ_CN and AQ_S2. There are no positive detections from any of the samples. Table 5.9 provides comparison of these results to the screening criteria identified in Section 4.3.4. All samples are significantly lower than respective adopted screening criteria.

Table 5.8: Summary of reported VOC concentrations – June to November 20	021
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	Repor	rted Concentratio	on (All locations) - μο	g/m³
Month	Benzene	Toluene	Ethylbenzene	Xylenes
June	<1.6	<1.9	<2.2	<6.5
July	<1.6	<1.9	<2.2	<6.5
August	<1.6	<1.9	<2.2	<6.5
September	<1.6	<1.9	<2.2	<6.5
October	<1.6	<1.9	<2.2	<6.5
November	<1.6	<1.9	<2.2	<6.5

Note - "<": Less than Limit of Reporting (LOR).

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VOC	Statistic	Maximum Result	Screening Criteria (µg/m³)	Source
Benzene	Maximum 24 hour average	<1.6	29	ATSDR (2017)
	Average	<1.6	9.6*	NEPC (2011)
Toluene	Maximum 24 hour average	<1.9	3,770	
	Average	<1.9	377*	NEFC (2011)
Ethylbenzene	Maximum 24 hour average	<2.2	21,700	
	Average	<2.2	260*	ATSUR (2017)
Xylenes	Maximum 24 hour average	<6.5	1,085	NEPC (2011)

Table 5.9: Screening reported VOC concentrations – June to November 2021

Notes - "<": Less than Limit of Reporting (LOR). *Average of 6 monthly samples compared to annual criterion for contextual purposes.

5.4 Methane

Table 5.10 provides a summary of reported concentrations for methane at the three monitoring locations. There are no positive detections from any of the samples.

	Reported Methane Concentration - mg/m ³										
Month	AQ_S1	AQ_S2	AQ_S3								
June	<6.6	<6.6	<6.6								
July	<6.6	<6.6	<6.6								
August	<6.6	<6.6	<6.6								
September	<6.6	<6.6	<6.6								
October	<6.6	<6.6	<6.6								
November	<6.6	<6.6	<6.6								

Table 5.10: Summary of methane monitoring results

Notes - "<": Less than Limit of Reporting (LOR).

6. CONCLUSIONS

BNR has conducted ambient air quality monitoring of particulate matter, deposited dust, VOCs and methane at multiple locations in the vicinity of the proposed Valhalla Gas Exploration and Appraisal Program during June 2021 to November 2021.

The monitoring has been primarily undertaken during the dry season which typically lasts from May to October. For the purposes of contextualising the results of this monitoring, annual criteria have been adopted as proxy criteria for comparison against the six-month averages. Noting that particulate matter from both wind erosion and vehicle transit on unsealed roads, and VOCs from bushfire activity are less prevalent with increased moisture in the environment, the approach of evaluating six months of dry season data against annual averages is considered conservative.

Table 6.1 presents a summary of the monitoring results for AQ_CS, AQ_CN and AQ_S2, with comparison against respective criteria.

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	Manifaring Ofstictio	Мо	nitoring Loca	tion	Critorion*
Month	Monitoring Statistic	AQ_CS	AQ_CN	AQ_S2	Cinterion
PM ₁₀	Peak 24 hour average	134.4	82.0	303.0	50
	6 monthly average	38.3	14.7	80.1	25*
PM _{2.5}	Peak 24 hour average	30.3	15.0	19.0	25
	6 monthly average	8.2	4.3	6.0	8*
Deposited Dust	6 monthly average	6.2	1.1	1.6	4*
Benzene	Maximum 24 hour average	<1.6	<1.6	<1.6	29
	6 monthly average	<1.6	<1.6	<1.6	9.6*
Toluene	Maximum 24 hour average	<1.9	<1.9	<1.9	3,770
	6 monthly average	<1.9	<1.9	<1.9	377*
Ethylbenzene	Maximum 24 hour average	<2.2	<2.2	<2.2	21,700
	6 monthly average	<2.2	<2.2	<2.2	260*
Xylenes	Maximum 24 hour average	<6.5	<6.5	<6.5	1,085
	6 monthly average	<6.5	<6.5	<6.5	868*

Table 6.1: Summary of Air Quality Monitoring Results (µg/m³)

Note: *Annual average criteria (marked by an asterisk) have been adopted as proxy criteria for comparison against the six-month averages

For PM₁₀, AQ_S2 reported the highest maximum 24-hour average concentration (303 μ g/m³), the highest period average (80.1 μ g/m³) and the most exceedances of the 24-hour average criterion at 96 events. For PM_{2.5}, AQ_CS has the highest maximum 24-hour average concentration (30.3 μ g/m³), the highest period average (8.2 μ g/m³) and had the only exceedance of the 24-hour average criterion. AQ_CN experienced the lowest PM₁₀ and PM_{2.5} concentrations of the three sites.

For contextual purposes, the six-month average monitoring results have been compared to annual average criteria of 25 μ g/m³ and 8 μ g/m³ for PM₁₀ and PM_{2.5}, respectively. Average PM₁₀ concentrations were higher than the annual average PM₁₀ criterion at location AQ_CS and location AQ_S2, with the magnitude of measurements at AQ_CS indicating an exceedance of the annual average criterion irrespective of concentrations present during the wet season.

The average $PM_{2.5}$ concentration was higher than the annual average $PM_{2.5}$ criterion at location AQ_CS. Given that particulate matter concentrations are anticipated to be lower during the wet season, this result is not necessarily indicative of an exceedance of the annual average criterion.

The monitoring results for the deposited dust showed variable dust deposition rates, with the highest results located at AQ_CS, for which the six monthly average was greater than the annual average criterion. Given that deposition rates are anticipated to be lower during the wet season, this result is not necessarily indicative of an exceedance of the annual average deposition criterion.

The results of the VOC monitoring have been screened against Australian and US criteria that are nominated for use in the evaluation of ambient monitoring data, for identification of whether additional investigation is required. There were no positive detections present for any VOCs, and all results were significantly lower than respective screening criteria.

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Methane monitoring results were less than the limit of reporting of 6.6 mg for locations AQ_S1, AQ_S2 and AQ_S3. Noting that this monitoring is not aligned with ambient air quality outcomes, these data have not been screened against any criterion.

7. STATEMENT OF LIMITATIONS

- This report is based solely on the scope of work described in proposal 'P0594916var1 Air Quality Monitoring Support Valhalla rev1.pdf' performed by Environmental Resources Management Australia Pacific Pty Ltd (ERM) for Bennett Resources (the Client). The Scope of Work was governed by a contract between ERM and the Client (Contract).
- 2. No limitation, qualification or caveat set out below is intended to derogate from the rights and obligations of ERM and the Client under the Contract.
- 3. The findings of this report are solely based on, and the information provided in this report is strictly limited to that required by, the Scope of Work. Except to the extent stated otherwise, in preparing this report ERM has not considered any question, nor provides any information, beyond that required by the Scope of Work.
- 4. This report was prepared between September 2021 and March 2022 and is based on conditions encountered and information reviewed at the time of preparation. The report does not, and cannot, take into account changes in law, factual circumstances, applicable regulatory instruments or any other future matter. ERM does not, and will not, provide any on-going advice on the impact of any future matters unless it has agreed with the Client to amend the Scope of Work or has entered into a new engagement to provide a further report.
- 5. This report is based on analyses described in the report, and information provided by the Client or third parties (including regulatory agencies). All conclusions and recommendations made in the report are the professional opinions of the ERM personnel involved. Whilst normal checking of data accuracy was undertaken, except to the extent expressly set out in this report ERM:
 - a. did not, nor was able to, make further enquiries to assess the reliability of the information or independently verify information provided by;
 - b. assumes no responsibility or liability for errors in data obtained from, the Client, any third parties or external sources (including regulatory agencies).
- 6. Although the data that has been used in compiling this report is generally based on actual circumstances, if the report refers to hypothetical examples those examples may, or may not, represent actual existing circumstances.
- 7. Only the environmental conditions and or potential contaminants specifically referred to in this report have been considered. To the extent permitted by law and except as is specifically stated in this report, ERM makes no warranty or representation about:
 - a. the suitability of the site(s) for any purpose or the permissibility of any use;
 - b. the presence, absence or otherwise of any environmental conditions or contaminants at the site(s) or elsewhere; or
 - c. the presence, absence or otherwise of asbestos, asbestos containing materials or any hazardous materials on the site(s).

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- 8. Use of the site for any purpose may require planning and other approvals and, in some cases, environmental regulator and accredited site auditor approvals. ERM offers no opinion as to the likelihood of obtaining any such approvals, or the conditions and obligations which such approvals may impose, which may include the requirement for additional environment works.
- 9. The ongoing use of the site or use of the site for a different purpose may require the management of or remediation of site conditions, such as contamination and other conditions, including but not limited to conditions referred to in this report.
- 10. This report should be read in full and no excerpts are to be taken as representative of the whole report. To ensure its contextual integrity, the report is not to be copied, distributed or referred to in part only. No responsibility or liability is accepted by ERM for use of any part of this report in any other context.
- 11. Except to the extent that ERM has agreed otherwise with the Client in the Scope of Work or the Contract, this report:
 - a. has been prepared and is intended only for the exclusive use of the Client and the appointed contaminated land auditor;
 - b. must not to be relied upon or used by any other party;
 - c. has not been prepared nor is intended for the purpose of advertising, sales, promoting or endorsing any Client interests including raising investment capital, recommending investment decisions, or other publicity purposes;
 - d. does not purport to recommend or induce a decision to make (or not make) any purchase, disposal, investment, divestment, financial commitment or otherwise in or in relation to the site(s); and
 - e. does not purport to provide, nor should be construed as, legal advice.

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For ERM Australia Pacific Pty Ltd

Christopher Thomson Principal Consultant

Karie Bradfield Partner

APPENDIX A – LABORATORY CHAIN OF CUSTODY DOCUMENTATION

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ALS	AIR CAI	NISTER CHA	AIN OF CUSTODY sourced from an ALS Laboratory: please tick → Client Supplied Canister(s)? Y / N	□4DELANDE DI Burde R Rn: 05 3059 0390 E adela □BRESSANE 2 Byth Streat Pt 07 3243 7221 E dante □BLADSTOKE 46 Calence Pt 07 7471 5500 E gener	aud Pooraka Sir IndecQuisphoner o I Stafford QLD 4 Da brisbana@ui Indah Ornia Cla Indah Ornia Cla	, 8098 am 893 saiobaileam Nan QLD 4880 com	DMACK Philip7 DMELB Phylip3 DMELD5 Phylip3 Phy	207 78 1 1944 A17 OUHNE 3549 960 SEE 120 SEE 120	Hanbour R) 17 E' maiol 2-4 West 30 El sami 6 Svetnay 25 E' mud	ead Ma kav@aa lali Rua dies me Road D gee.mai	actas, GLC 4 Sigiobal com Id Soningvalo Ibourne@dats Mudgeo NS-A IlgBallsgiobal	74) VIC 31) globater Case com	71 100	DNEWONSTLE SM81 Phi 02 4014 2509 E DNOWRA 4410 Geen Phi 62 4423 2661 F DPERTH 16 Hod Via Phi 62 3209 7555 E	i Mareasti Rhed Marifek Iarolek nervitasile@elsi I Place Nortz Netwra NS I Wrat@akoltosi com V Mataga 114,5090 Semples.com/n@akoltosi	d West XSV- [] glaba: corr N/ 2541 st com	54 ⊒SV5 %r 6 ⊐764 ₽r 6 ⊒W6 ₽r, 8	DNF 177-235 Web 20784 0555 5 Son MNSVELE 1446 Ø 7 4795 0600 5 rows DELONGONS 96 K DE 4225 7125 5 we	opark Finad Smotheid NPV, 2192 plas sydney@alsolocat.com seria Court Pohle CLE 14818 coulle environmersk@asaptos com new Straet Welkingene, VISIs 2500 Norying@alsolocat.com
CLIENT			Bennett Resources Pty Ltd		TURNAR		UIREMENT	s:		Stand	dard TAT	(List d	due date):			L	ABORATO	RY USE ONL	Y (Circle)
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PROJEC	T Name/No:	Air Quality Monito	oring		ALS QU	DTE NO.:	NE/066/21							COC SEQUENCE	NUMBER (Circl	le) Vi	alves closed	on Rec	LabY/N NEY/N N//
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Email Ro Email In	ports to (will d	efault to PM if no oth	ner addresses are listed): er addresses are listed):						RECE	S	о ву: 26	• 15	21	RECEIVED BY:	Since	RECEIN	ED BY:		RECEIVED BY:
СОММЕ	NTS/SPECIAL	HANDLING/REPLA	CEMENT OR RETURN INSTRUCTIONS:			· · · · · · · · · · · · · · · · · · ·					¢\	<u>``\</u>	5 -						
	1	GAS SAMP		ION		Caniste Pressu	er Gauge Ires (PSI)	Refer t COAs	to Canister for pressu	r Verific Ires mes	tation Report assured by the	and Lab		ANALYSE	ES REQUE	STED		Additi	onal Information
ALL USE CAL		1 1	CANISTER / SAMPLE DETAILS			_		Rep	porting	, Req	quiremer	its	SL	rite Codes must	be listed to attra	ict suite pr	lce	Comments	
LABID	CANISTER SERIAL NO.	FLOW CONTROLLER SERIAL NO.	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX (eg Air, Soli Gas)	Pre- Sampling	Post Sampling	Ambian' Air	LORs	Other / Indoor	Unit: , ppbv, pj , µg/m ³ m	s pmv, (g/m ³	EP101- BTEXN (USEPA TO15)	EP104L-M (in house, ASTM D1945)				hazards, like requiring spectro	on Lores required, potential y contaminant levels, or sample: offic QC analysis etc. (LoR defaults to line method LOR after dilution)
	40217	2833	AQ_CN	16/11/21 0720	Air	30	10	x			×		х						
	40222	1619	AQ_CS	1411/21 0920	Air	30	01	x			x		x						
	40215	1616	AQ_S2	16/11/21 0830	Air	28	D	×			X		x	x		l Factor		I	
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NT: Bennett Resources Pt CE: JECT: Air Quality Monitorin ER NUMBER: JECT MANAGER: PLER: Emailed to ALS? (YES / I Reports to (will default to P I Invoice to (will default to P MENT\$/SPECIAL HANDLIN LS USE ONLY	IN Ltd PURCHASE PURCHASE NO) PM if no other addresses are list M if no other addresses are list NG/STORAGE OR DISPOSAL: SAMPLE I MATRIX: Solid(PROJECT NO. ORDER NO.: CONTACT SAMPLER EDD FORM sted): : : DETAILS ((S) Water(W)	TURNARC (Standard Tr e.gUtra Tr e.gUtra Tr e.gUtra Tr e.gUtra Tr e.gOtra COUNTRY COUNTRY MOBILE: MAT (or defau	DUND REQUIREMENTS : St. St. Tray be longer for some tests ace Organics TE NO.: NE/066/21 OF ORIGIN: Australia RELING Itt): DATE/I CONTAINER INFORMATI	andard TAT (List on Standard or ur QUISHED BY: TIME: ION	due date): gent TAT (List du List du ANALYSIS F Where Met	e date): COC SEC COC: 1 2 OF: 1 2 DATE/TIME; 27/C EQUIRED includi	EVENCE NUMBER (Circle 3 4 5 $2 3 4 5$ $2 3 4 $	FOR L Custody Free lice 8 7 Other c: RELINQUISI DATE/TIME:	ABORATORY USE (Seal Intact?) (frozen ice bricks present a sample Temperature bomment: HED BY: d to attract suite price)	ONLY (Circle) Yes No ent upon Yes No on Receipt: 'C RECEIVED BY: DATE/TIME: Additional Informatic	N/A N/A
CE: JECT: Air Quality Monitorin ER NUMBER: JECT MANAGER: PLER: Emailed to ALS? (YES / I Reports to (will default to PI Invoice to (will default to PI MENTS/SPECIAL HANDLIN ILS USE ONLY LAB ID	Ing PURCHASE PURCHASE NO) PM if no other addresses are list Mif no other addresses are list IG/STORAGE OR DISPOSAL SAMPLE I MATRIX: Solid	PROJECT NO. CONTACT SAMPLER EDD FORM sted): ted): : DETAILS ((5) Water(W)	(Standard J A 6.g. Ultra Tr ALS QUO COUNTRY PH MOBILE: MAT (or defau	It may be longer for some tests No aco Organics) No TE NO.: NE/066/21 OF ORIGIN: Australia Itit): DATE/1 CONTAINER INFORMATION CONTAINER INFORMATION	ON Standard or ur QUISHED BY: TIME: ION	gent TAT (List du ANALYSIS F Where Met	e date): COC SEC COC: 1 2 OF: 1 2 DATE/TIME; 2-7/C EQUIRED includi	QUENCE NUMBER (Circle 2 3 4 5 2 3 4 5 2 7 2 1	Custody Ie) Custody Free lice 8 7 Randon 8 7 Other c: REL INQUISH DATE/TIME: odes must be lister	y Seal Intact? / frozen ice bricks pres n Sample Temperature omment: HED BY: d to attract suite price)	Yes No hent upon Yes No on Receipt: "C RECEIVED BY: DATE/TIME: Additional Informatic	N/A N/A
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LABID				· _ · _ ·			· · · · · · · · · · · · · · · · · · ·	fotal (unfiltered bottle required)	or Dissolved (field filte	ared bottle required).		
	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	A04 Partial Dust Analysis (TiM + CM + AC) (AS 3560.10.1)					Comments on likely contaminant le dilutions, or samples requiring spec analysis atc.	ivels, ific QC
1	AQ_CN		S	Dust gauge bottle - copper sulfate	: 1	x						
	AQ_CS		s	Dust gauge bottle - copper sulfate	1	x						
	AQ_S2		s	Dust gauge bottle - copper sulfate	· 1	x					-	
					_							
			++						++		_	
					_						Envir	ronmen
											Newo	castle
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Approved Uale: 24/08/201

(ALS)	ALS Laboratory: please dick → JADELADE 314 Bitma Rand Poccesa SA 6395 JIMACKAY Upt 224 Der MARKAY Upt 224 Der JIMACKAY Upt 224 Der Dir ALS Laboratory: please dick → JIMACKAY Upt 224 Der Statistical Der Unterstand JIMACKAY Upt 224 Der Dir Unterstand JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir Dir JIMACKAY Upt 224 Der JIMACKAY Upt 224 Der Dir Dir JIMACKAY Upt 224 Der <th>et OLD 4740 digitopal com elo VIC 3171 distance stor 2004 Stor 2004 ball com</th> <th>UNEWCASTLE Ph. 02404425 UNOWRA373 Ph: 024423296 UPERTH 10 H Ph: 08020576</th> <th>5:585 Mailland Road M E samplins newsre Geory Placo Narth No 3 G. nowra@aisgloba net Way Maraga ("VA) 55 E. samples.perfhä</th> <th>Maganki, Winst NSV. Ile@aleatobal.com wita NSV/2541 Loom 509() çalsqibila1.com</th> <th>2204</th> <th>topak Read Smithfeld NSW 2164 αν. symber Ω alsgebral com sma Court Rohe QLD 4819 ravio Joense lie fästsjebat.com Table Back Sine Nie Nie Nederingenig NSW 2301 ngenerg/Skajalobat.com</th>					et OLD 4740 digitopal com elo VIC 3171 distance stor 2004 Stor 2004 ball com	UNEWCASTLE Ph. 02404425 UNOWRA373 Ph: 024423296 UPERTH 10 H Ph: 08020576	5:585 Mailland Road M E samplins newsre Geory Placo Narth No 3 G. nowra@aisgloba net Way Maraga ("VA) 55 E. samples.perfhä	Maganki, Winst NSV. Ile@aleatobal.com wita NSV/2541 Loom 509() çalsqibila1.com	2204	topak Read Smithfeld NSW 2164 αν. symber Ω alsgebral com sma Court Rohe QLD 4819 ravio Joense lie fästsjebat.com Table Back Sine Nie Nie Nederingenig NSW 2301 ngenerg/Skajalobat.com
CLIENT: Bennett Res	ources Pty Ltd		TURNAR		lard TAT (Lis	: due date):				FOR LABORATORY USE	ONLY (Circle)
OFFICE:			(Standard 1 e.g Ultra T	TAT may be longer for some tests Tate Organics)	Standard or u	gent TAT (List due	date):			Custody Seal Intact?	Yes No N/A
PROJECT: Air Qualit	y Monitoring	PROJECT NO.	ALS QUO	DTE NO.: NE/066/21			coc s	EQUENCE NUMB	ER (Circle)	Free ice / frozen ice bricks pre receipt?	sentupon Yes No N/A
ORDER NUMBER:	PURCHA	SE ORDER NO.:	COUNTR	Y OF ORIGIN: Australia			COC: 1	2 3 4	5 6 7	7 Random Sample Temperature	on Receipt: C
PROJECT MANAGER		CONTACT	PH:				OF: 1	2 3 4	5 6 7	7 Other comment:	
SAMPLER:	APLER: SAMPLER MOBILE:						RECEIVED	BY:	RE	ELINQUISHED BY:	RECEIVED BY:
COC Emailes to ALC.	(120 / 110)	24/08	Man								
Email Reports to (will	default to PM if no other addresses ar	e listed):		DATE/TIN	IE:		DA	101	DA	ATE/TIME:	DATE/TIME:
Email Invoice to (will d	efault to PM if no other addresses are	listed):						1/21			
COMMENTS/SPECIAL	HANDLING/STORAGE OR DISPOS	AL:					Į	1 Th	TT - QS	83507512	7614
ALS USE ONLY	SAMPL Matrix: Sa	E DETAILS blid(S) Water(W)		CONTAINER INFORMATIO	N	ANALYSIS RE Where Metal	EQUIRED Inclu	ding SUITES (N y Total (unfiltered bot	IB. Suite Codes m	nust be listed to attract suite price) wed (field fikered bottle required).	Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	A04 Partial Dust Analysis (TIM + CM + AC) (AS 3580.10.1)		-			Comments on likely contaminant levels, diutions, or samples requiring specific QC analysis etc.
	AQ_CN	18/08/21 8:10 an	S	Dust gauge bottle - copper sulfate	1	x					
	AQ_CS	18/08/21 11:50	s M	Dust gauge bottle - copper sulfate	1	x					
	AQ_S2	18/08/21 10:20	s	Dust gauge bottle - copper sulfate	1	x					
										Er No	wironmental Division ewcastle ^{Work Order Reference} EN2107605
											elephone 1 + 61 2 4014 2500
				τοτα							· · · · · · · · · · · · · · · · · · ·
Water Container Codes: V = VOA Vial HCI Preserve Z = Zinc Acetate Preserved	P = Unpreserved Plastic; N = Nitric Preser d; VB = VOA Viel Sodium Bisulphate Prese Bottle; E = EDTA Preserved Bottles; ST =	ved Plastic; ORC = Nitric Preserve rved; VS = VOA Vial Sulfuric Prese Sterile Bottle; ASS = Plastic Bag fi	od ORC; SH arved; AV = A or Acid Sulph	= Sodium Hydroxide/Cd Preserved; S = Sodiun infreight Unpreserved Vial SG = Sulfunc Preserved Bag; Lf = Lugols lod	n Hydroxide Pr ved Amber G line Preserved	aserved Plastic; AG = ass; H = HCl preset Bottles; STT = Sterik	- Amber Glass Ur rved Plastic; HS e Sodium Thiosul	preserved; AP - A HCI preserved S ate Preserved Bot	infreight Unpresen peciation bottle; Si ties.	ved Plastic P = Sulfuric Preserved Plastic; F =	Formaldehyde Preserved Glass;

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TNT: 9835 0751 3354

ALS	CHAIN OF CUSTOD	 □ADELAIDE 3/1 Burma Road Ph: 08 8162 5130 €; adelaido; □BRISBANE 2 Byth Street Sta Ph: 07 3243 7222 €; samples, □GLADSTONE 48 Catemondate Ph: 07 4978 7944 €; ALSEnvin 	Pooraka SA 50 Belsglobal.com ifford OLD 4053 prisbane@alogi ah Drive Gladst o.Gladstone@a	395 LIMACKAY Unit 3/20 Can 3 Ph: 07 4662 5796 E ALS 3 CIMELBOURNE 2-4 Wes 4 CIMELBOURNE 2-4 Wes 4 CIMELBOURNE 2-4 Wes 4 CIMELBOURNE 2-4 Wes 5 CIMELBOURNE 2-4 Wes 6 CIMELBOURNE 2-4 Wes 7 672 5735 E - mud 7 673 5 E - mud	arpillar Drive Pag Enviro.Mackay@ tall Road Springvo ples melbourne@ Road Mudgee N gee.mail@alsglol	at QLD 4740 alsglobal.com ale VIC 3171 alsglobal.com SW 2850 pel.com	DNEW Ph: 02 NOW Ph: 02 4 DPER Ph: 08	CASTLE 5/5 4014 2500 E RA 4/13 Gea 423 2053 E TH 10 Hod V 9209 7655 E	95 Maitland Roa samples.newor y Place North M nowra@alsglob /ay Malega WA : samples.perth	d Mayfield West) astle@alsglobal.c lowra NSW 2541 al.com x6090 @alsglobat.com	VSW 2304 CISYDNEY 277-289 W Ph: 02 8784 8555 E: sa CITOWNSVILE 14-15 Ph: 07 4786 0500 E: AI CIWOLLONGONG 1/16 Ph: 02 4225 3125 E: wa	codpark Road Smithfield NSW 2164 mptestydrawg@alagobal.com Deama Court Bohe CLD 4318 SErwiro Tommsville@alagibal.com J21 Rajuhi Black Jone, Nth Wolangeng NSW 2500 »klongeng@alagibal.com	
CLIENT: Bennett Reso	urces Pty Ltd	_			lard TAT (List	due date);	Bus	31	10001	21	FOR LABORATORY US	E ONLY (Circle)	
OFFICE:			e.g., Ultra Ti	AT may be longer for some tests D Non S	Standard or ur	gent TAT (List d	e date):				Custody Seal Intact?	Yes No N/A	
PROJECT: Air Quality	Monitoring	PROJECT NO.	ALS QUO	TE NO.: NE/066/21				COC SEQ	JENCE NUM	BER (Circle)	receipt?	resent upon Yes No N/A	
ORDER NUMBER:	PURCHA	SE ORDER NO.:	COUNTRY	OF ORIGIN: Australia			COC: \	ء ت	34	56	7 Random Sample Temperat	ire on Receipt: C	
ROJECT MANAGER:		CONTACT P	H:				OF:	<u>)</u> 2	3 4	56	7 Other comment:		
SAMPLER:		SAMPLER M	OBIL				RECE	IVED BY:			RELINQUISHED BY:	RECEIVED BY:	
OC Emailed to ALS? (EDD FORMA	T (or terat				-	N		>			
mail reports to (will de	eraur, to PM if no other addresses ar	e listed):		02	lina In	1150			, a		DATE/TIME:	DATE/TIME:	
mail invoice to (will dei	radic to Pivi ir no otner addresses are	i listed):		22	05/2	1 10.0	9 10	1912	<u> </u>	.00			
OMMENTS/SPECIAL H	ANDLING/STORAGE OR DISPOS	AL:											
	SAMPL	E DETAILS				ANALYSIS	REQUIRED) includir	ISUITES (NB. Suite Cod	as must be listed to attract suite price		
ALO USE UNET	MATRIX: Se	olid(S) Water(W)		CONTAINER INFORMATION	•	Where Mi	als are require	ed, specify To	tal (unfiltered b	ottie required) or E	lasolved (field filtered bottle required).	Adomonal Information	
Labid	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	A04 Partial Dust Analysis (TIM + CM + (AS 3580.10.1) (AS 3580.10.1)						Comments en likely contaminant levels. (dilutions, or samples requiring specific QC analysis etc.	
1	AQ_CN	21/03/21	s	Dust gauge bottle - copper sulfate	1	×							
2	AQ_CS	21/09/21	S	Dust gauge bottle - copper suifate	1	×							
3	AQ_S2	21/09/21	s	Dust gauge bottle - copper suifate	1	×							
					· ·							Environment Newcastle Work Order EN21	tal Divisio Reference 0871
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	A	CHAIN OF CUSTODY	CIADELAIDE 3/1 Burma Road Ph: 08 8162 5130 5: adelaide(Pooraka SA 509 Baisglobal.com	25 EMACKA Ph: 07 495	7 Unit 2/20 Cate 2 5795 E: ALSE	arplikar Drive Page Enviro.Mackay@a util Rood Cooks	sglobal.com	DNEWCAS Ph: 02 4014	TLE 5/585 Maitland F 2500 E: samples.net 13 Georg Place Mark	oad Mayfreid Wes castle@alsglobal. Nowra NSW ○5 ○	INSW 2304 □SY com Ph: C	UNEY 277-289 Wood 2 8784 8555 E: samp WNSVIIIE 14-15 De	арак коас smithlieid NSW 2164 ples.sydney@alsglobal.com esma Court Boble OLD 4818	
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MALENTSSPECIAL HANDLING/STORAGE OR DISPOSAL: ALS USE ON.Y SAMPLE DETAILS MATRIX Solid(3) Water(Y) CONTAINER INFORMATION Add(3) Status interview	all Invoice to (will de	efault to PM if no other addresses are	e listed):						2(11	121 1	1:20				
ALS USE ONLY SAMPLE DETAILS MATRIX: Sold(S) Water(W) CONTAINER INFORMATION AMAL YSIS REGURED Including SUITES (45: 500: Column of the list of the real-to):	MMENTS/SPECIAL	HANDLING/STORAGE OR DISPOS	BAL:												
ALS USE ONLY MATRIX CONTAINER INFORMATION Vites listed is an equical superly for Generate data matching Additional information LAB ID SAMPLE ID DATE / TIME MATRIX TYPE & PRESERVATIVE prefer to CODE Data matching TOTAL & grage grage grage grage<		BANDI						ANALYSIS	EQUIRED in	cluding SUITE	S (NB. Suite Co	les must be listed to a	ittract suite price)		
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LAB ID SAMPLE ID DATE / TIME MATRIX TYPE & PRESERVATIVE (refer to codee below) TOTAL # Image: Code below) DOTLES # # Image: Code below) Dist gauge bottle - cooper suitate 1 X Image: Code below) Image: Code below) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E C</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								E C							
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I AQ_CN 20/16/21 0/30 S Dust gauge bottle - copper sulfate 1 X I X I X I AQ_CS Zo/16/21 0/30 S Dust gauge bottle - copper sulfate 1 X I X								artial							
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2 Ao_CS 20/10/21 0930 S Dust gauge bottle - copper sulfate 1 X Environmenta 3 Ao_S2 20/10/21 0930 S Dust gauge bottle - copper sulfate 1 X	<u> </u>	AQ_CN	6/10/21 0650	S	Dust gauge bottle - coppe	r sulfate	1	X							
3 AQ_S2 20/10/21 0930 s Dust gauge bottle - copper sulfate 1 X Image: Comparison of the copper sulfate Image: Co	2	AQ_CS	20/10/21 08-9	s	Dust gauge bottle - coppe	r sulfate	1	x							
S Act Lefin (2) or (3) o Design (control of prime) A C C Environment: Newcastle Work Order EN21 Image: Solution of prime Image: Solution of prim	7	40.52	7-1-1-1-007	s	Dust gauge bottle - coppe	er sulfate	1	x							
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	CHAIN OF CUSTODY	DADELAIDE 3 Ph: 08 8162 51	3/1 Burma Road F 130 E: adeleide@	Pooraka SA 50) alsglobal,com	095 EMACKAN Ph: 07 495	⁷ Unit 2/20 Cate 2 5795 E: ALSE IRNE: 2 4 M/set	rpillar Drive Paga inviro Mackay@a all Read Series	t QLD 4740 Isglobal.com	DNEWCASTLE 5/58 Ph: 02 4014 2500 E	Maitland Road Mayfield Wes samples.newcastle@alsglobal Blace Mark Newro NSW 254	NSW 2304	OSYDNEY 277-289 Woo Ph: 02 8784 8555 E: sam	dpark Road Smithfield ples.sydney@alsglob	i NSW 2164 el.com		
	ALS Laboratory: please tick ᢣ	Ph. 07 3243 72	2 Byth Street Staff 222 E: samples.br	ford QLD 4053 risbane@alsgk	obal.com Ph: 03 854	9 9600 E: samp	iles.melbourne@	alsglobal.com	Ph: 02 4423 2083 E: n	owra@alsglobal.com		Ph: 07 4798 0600 E: ALS	Enviro. Townsville@alsg	lobel.com		
		GLADSTONE Ph: 07 4978 79	E 48 Callemondah 044 E: ALSEnviro.	h Drive Gladsto Gladstone@a	ane QLD 4580 DMUDGE alsglobal.com Ph: 02 637	E 1/29 Sydney F 2 6735 E: mudg	Road Mudgee NS gee.mail@alsglob	SW 2850 al.com	QPERTH 10 Hod Wi Ph: 08 9209 7655 E:	ay Malaga WA 6090 semples.perth@alsglobal.com		DWOLLONGONG 1/19-2 Ph: 02 4225 3125 E: wolk	1 Relph Black Drive, engong@alsglobal.co	Nth Wollongong m	NSW 2500	
CLIENT: Bennett Reso	ources Pty Ltd			TURNAR	OUND REQUIREMENTS :	Stand:	ard TAT (List	due date):			FOR	LABORATORY USE	ONLY (Circle))		
OFFICE:				(Standard T/ e.d., Ultre Tr	AT may be longer for some tests race Organics)	🛛 Non S	tandard or ur	jent TAT (List due	date):		Custo	dy Seal Intact?	١	'es	No N	N/A
PROJECT: Air Quality	Monitoring	PROJECT NO.		ALS QUO	TE NO.: NE/066/21				COC SEQU	ENCE NUMBER (Circle) Free io receip	ce / frozen ice bricks pre 1?	sentupon ໂ	'es	No N	N/A
ORDER NUMBER:	PURCHA	SE ORDER NO.:	.: COUNTRY OF ORIGIN: Australia						COC: 1 2	3 4 5 6	7 Rando	m Sample Temperatur	e on Receipt:	•	с	
PROJECT MANAGER:	ROJECT MANAGER: CONTACT PH:								OF: 1 2	3 4 5 6	7 Other	comment:				
SAMPLER:		S	AMPLER MO	OBILE:		RELINQUI	SHED BY:		RECEIVED BY:		RELINQUIS	SHED BY:	RECE	VED BY:		
COC Emailed to ALS?	(YES / NO)	E	DD FORMAT	T (or defau	ult):											
Email Reports to (will de	efault to PM if no other addresses are	e listed):				DATE/TIMI	E:		DATE/ HVIE.		DATE/TIME	: .	DATE/	TIME:		
Email invoice to (will de	fault to PM if no other addresses are	listed):]				P1:15 =	-					
COMMENTS/SPECIAL I	HANDLING/STORAGE OR DISPOS	AL:														
	SAMPL	E DETAILS						ANALYSIS RE	QUIRED including	SUITES (NB. Suite Cod	les must be list	ed to attract suite price)	Add	ition at Infor	mation	
ALO USE ONE?	MATRIX: Sc	Nid(S) Water(W)			CONTAINER IN			Where Metab	s are required, specify Tot	al (unfiltered bottle required) or	Dissolved (field fi	tered bottle required).	Aud		mauon	
					TYPE & PRESERVAT	IVE	TOTAL	4 ysis (TIM + CM +) 0.10.1)					Comments on dilutions, or sa analysis etc.	likely contami mples requirin	nent levels, g specific QC	
	SAMPLE ID	DATE / T	IME	MATRIX	(refer to codes below	v)	BOTTLES	A0 Partial Dust Anah AC (AS 358	-							
	AQ_CN	16/11/21	0720	s	Dust gauge bottle - copper	r sulfate	1	×				I	1 .		•	
	AQ_CS	16/11/21 C	0930	s	Dust gauge bottle - coppe	r sulfate	1	×			Enviro	nmental Div	lsion			
	AQ_S2	1/1/121 0	5830	s	Dust gauge bottle - coppe	r sulfate	1	×			Newca	Stie	0.00			
			-										479			
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		1				TOTAL										
Water Container Codes: F V = VOA Vial HCI Preserved Z = Zinc Acetate Preserved 6	² = Unpreserved Plastic; N = Nitric Presen ; VB = VOA Viat Sodium Bisulphate Prese Bottle; E = EDTA Preserved Bottles; ST = 5	ved Plastic; ORC = N rved; VS = VOA Vial S Sterile Bottle; ASS =	litric Preserved Sulfuric Preser Plastic Bag for	í ÓŘC; SH = ved;AV = Ai rAcid Sulpha	= Sodium Hydroxide/Cd Preserved irfreight Unpreserved Vial SG = So ate Soils: B = Unpreserved Bag: Li	; S = Sodium Ilfuric Preserv = Lugols iodi	Hydroxide Preved Amber Gil	served Plastic; AG = ass; H = HCI preser Bottles; STT = Sterile	Amber Glass Unpres ved Plastic; HS = HC Sodium Thiosulfate I	erved; AP - Airfreight Unp preserved Speciation bot reserved Bottles.	reserved Plastk lle; SP = S⊔lfur	c Preserved Plastic; F	= Formaldehyde P	reserved Glass	5;	

APPENDIX B – LABORATORY CERTIFICATES OF ANALYSIS

APPENDIX B – LABORATORY CERTIFICATES OF ANALYSIS

CERTIFICATE OF ANALYSIS : EN2105364 Work Order Page : 1 of 4 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone . ____ Project Date Samples Received : Air Quality Monitoring : 19-Jul-2021 09:40 Order number Date Analysis Commenced : 20-Jul-2021 : -----C-O-C number Issue Date : 01-Sep-2021 08:41 ____ Sampler Site ____ Quote number : NE/066/21 "uhuhu Accreditation No. 825 No. of samples received : 5 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 5

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Daniel Junek	Senior Air Analyst	Newcastle - Organics, Mayfield West, NSW
Daniel Junek	Senior Air Analyst	Newcastle, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP101-H: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP101-H: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa.
- CAN-001: Results for Pressure As Received are measured under controlled conditions using calibrated laboratory gauges. These results are expressed as an Absolute Pressure. Equivalent gauge pressures
 may be calculated by subtracting the Pressure Laboratory Atmosphere taken at the time of measurement.
- CAN-001: Results for Pressure Gauge as Received are obtained from uncalibrated field gauges and are indicative only. These results may not precisely match calibrated gauge readings and may vary from field
 measurements due to changes in temperature and pressure

Page	: 3 of 4
Work Order	: EN2105364
Client	: Bennett Resources PTY LTD
Project	Air Quality Monitoring

Analytical Results

Sub-Matrix: AIR (Matrix: AIR)			Sample ID	AQ_CS C12620_S1620	AQ_S2 C4984_S2848	AQ_CN C12642_S2839	AQ_S3 C12647_S2833	AQ_S1 C4781_S1830
		Sampli	ng date / time	24-Jun-2021 09:30	24-Jun-2021 10:40	24-Jun-2021 14:30	24-Jun-2021 10:30	24-Jun-2021 12:40
Compound	CAS Number	LOR	Unit	EN2105364-001	EN2105364-002	EN2105364-003	EN2105364-004	EN2105364-005
				Result	Result	Result	Result	Result
EP101: VOCs by USEPA Method TO1	5 (Calculated Conce	ntration)						
Benzene	71-43-2	1.6	µg/m³	<1.6	<1.6	<1.6		
Toluene	108-88-3	1.9	µg/m³	<1.9	<1.9	<1.9		
Ethylbenzene	100-41-4	2.2	µg/m³	<2.2	<2.2	<2.2		
meta- & para-Xylene	108-38-3 106-42-3	4.3	µg/m³	<4.3	<4.3	<4.3		
ortho-Xylene	95-47-6	2.2	µg/m³	<2.2	<2.2	<2.2		
Naphthalene	91-20-3	2.6	µg/m³	<2.6	<2.6	<2.6		
Total Xylenes		6.5	µg/m³	<6.5	<6.5	<6.5		
EP101: VOCs by USEPA Method TO1	5r							
Benzene	71-43-2	0.5	ppbv	<0.5	<0.5	<0.5		
Toluene	108-88-3	0.5	ppbv	<0.5	<0.5	<0.5		
Ethylbenzene	100-41-4	0.5	ppbv	<0.5	<0.5	<0.5		
meta- & para-Xylene	108-38-3 106-42-3	1.0	ppbv	<1.0	<1.0	<1.0		
ortho-Xylene	95-47-6	0.5	ppbv	<0.5	<0.5	<0.5		
Naphthalene	91-20-3	0.5	ppbv	<0.5	<0.5	<0.5		
Total Xylenes		1.5	ppbv	<1.5	<1.5	<1.5		
EP104: Light Hydrocarbons								
Methane	74-82-8	0.0005	Mol %		<0.0010		<0.0010	<0.0010
EP104: Light Hydrocarbons (Calc Co	nc)							
Methane	74-82-8	3.30	mg/m³		<6.60		<6.60	<6.60
Sampling Quality Assurance								
Pressure - As received	PRESSURE	0.1	kPaa	99.9	98.0	95.7	101	98.9
Pressure - Gauge as Received		1	Inches Hg	-2	-1	-1	-1	1
Pressure - Laboratory Atmosphere		0.1	kPaa	100	100	100	100	100
Temperature as Received		0.1	°C	20.0	20.0	20.0	20.0	20.0
EP101: Surrogates								
4-Bromofluorobenzene	460-00-4	0.5	%	99.5	99.6	99.9		

Page	: 4 of 4
Work Order	: EN2105364
Client	: Bennett Resources PTY LTD
Project	: Air Quality Monitoring

Surrogate Control Limits

Sub-Matrix: AIR		Recovery	Limits (%)
Compound	CAS Number	Low	High
EP101: Surrogates			
4-Bromofluorobenzene	460-00-4	60	140

CERTIFICATE OF ANALYSIS Work Order : EN2106972 Page : 1 of 4 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone . ____ Project Date Samples Received : Air Quality Monitoring : 10-Aug-2021 09:00 Order number Date Analysis Commenced : 11-Aug-2021 : -----C-O-C number Issue Date : 16-Sep-2021 09:42 ____ Sampler Site ____ Quote number : NE/066/21 hululu Accreditation No. 825 No. of samples received : 5 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 5

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Dale Semple	Analyst	Newcastle - Organics, Mayfield West, NSW
Dale Semple	Analyst	Newcastle, Mayfield West, NSW
Daniel Junek	Senior Air Analyst	Newcastle - Organics, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP101-H: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP101-H: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa.
- CAN-001: Results for Pressure As Received are measured under controlled conditions using calibrated laboratory gauges. These results are expressed as an Absolute Pressure. Equivalent gauge pressures
 may be calculated by subtracting the Pressure Laboratory Atmosphere taken at the time of measurement.
- CAN-001: Results for Pressure Gauge as Received are obtained from uncalibrated field gauges and are indicative only. These results may not precisely match calibrated gauge readings and may vary from field
 measurements due to changes in temperature and pressure

Page	: 3 of 4
Work Order	: EN2106972
Client	: Bennett Resources PTY LTD
Project	Air Quality Monitoring

Analytical Results

Sub-Matrix: AIR			Sample ID	AQ_CN	AQ_CS	AQ_S2	AQ_S1	AQ_S3
(Matrix: AIR)				C40220 S15007	C40227 S15015	C40215 S1614	C40249 S15024	C40214 S15018
		Sampli	ng date / time	22-Jul-2021 10:52	22-Jul-2021 08:37	22-Jul-2021 09:16	22-Jul-2021 09:04	22-Jul-2021 10:20
Compound	CAS Number	LOR	Unit	EN2106972-001	EN2106972-002	EN2106972-003	EN2106972-004	EN2106972-005
				Result	Result	Result	Result	Result
EP101: VOCs by USEPA Method TO15 (Calculated Concentration)								
Benzene	71-43-2	1.6	µg/m³	<1.6	<1.6	<1.6		
Toluene	108-88-3	1.9	µg/m³	<1.9	<1.9	<1.9		
Ethylbenzene	100-41-4	2.2	µg/m³	<2.2	<2.2	<2.2		
meta- & para-Xylene	108-38-3 106-42-3	4.3	µg/m³	<4.3	<4.3	<4.3		
ortho-Xylene	95-47-6	2.2	µg/m³	<2.2	<2.2	<2.2		
Naphthalene	91-20-3	2.6	µg/m³	<2.6	<2.6	<2.6		
Total Xylenes		6.5	µg/m³	<6.5	<6.5	<6.5		
EP101: VOCs by USEPA Method TO1	5r							
Benzene	71-43-2	0.5	ppbv	<0.5	<0.5	<0.5		
Toluene	108-88-3	0.5	ppbv	<0.5	<0.5	<0.5		
Ethylbenzene	100-41-4	0.5	ppbv	<0.5	<0.5	<0.5		
meta- & para-Xylene	108-38-3 106-42-3	1.0	ppbv	<1.0	<1.0	<1.0		
ortho-Xylene	95-47-6	0.5	ppbv	<0.5	<0.5	<0.5		
Naphthalene	91-20-3	0.5	ppbv	<0.5	<0.5	<0.5		
Total Xylenes		1.5	ppbv	<1.5	<1.5	<1.5		
EP104: Light Hydrocarbons								
Methane	74-82-8	0.0005	Mol %			<0.0010	<0.0010	<0.0010
EP104: Light Hydrocarbons (Calc Co	nc)							
Methane	74-82-8	3.30	mg/m³			<6.60	<6.60	<6.60
Sampling Quality Assurance								
Pressure - As received	PRESSURE	0.1	kPaa	85.0	89.7	96.1	91.1	101
Pressure - Gauge as Received		1	Inches Hg	-6	-4	-3	-7	-1
Pressure - Laboratory Atmosphere		0.1	kPaa	102	102	102	102	102
Temperature as Received		0.1	°C	20.0	20.0	20.0	20.0	20.0
EP101: Surrogates								
4-Bromofluorobenzene	460-00-4	0.5	%	104	104	104		

Page	: 4 of 4
Work Order	: EN2106972
Client	: Bennett Resources PTY LTD
Project	: Air Quality Monitoring

Surrogate Control Limits

Sub-Matrix: AIR		Recovery	Limits (%)
Compound	CAS Number	Low	High
EP101: Surrogates			
4-Bromofluorobenzene	460-00-4	60	140

CERTIFICATE OF ANALYSIS : EN2108023 Work Order Page : 1 of 4 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone . ____ Project Date Samples Received : Air Quality Monitoring : 01-Sep-2021 08:45 Order number Date Analysis Commenced : 16-Sep-2021 : -----C-O-C number Issue Date : 18-Oct-2021 10:11 ----Sampler Site ____ Quote number : NE/066/21 "uhuhu Accreditation No. 825 No. of samples received : 5 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 5

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Dale Semple	Analyst	Newcastle - Organics, Mayfield West, NSW
Daniel Junek	Senior Air Analyst	Newcastle - Organics, Mayfield West, NSW
Daniel Junek	Senior Air Analyst	Newcastle, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

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~ = Indicates an estimated value.

- EP104: Results reported in mg/m³ are calculated from Mol% results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa
- EP104: Sample canisters were received at sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly.
- EP101-H: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP101-H: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP101, EP104: Particular samples were received outside of recommended ALS holding times for the analysis of BTEXN and low-level methane. Results should be scrutinised accordingly.
- EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa.
- CAN-001: Results for Pressure As Received are measured under controlled conditions using calibrated laboratory gauges. These results are expressed as an Absolute Pressure. Equivalent gauge pressures
 may be calculated by subtracting the Pressure Laboratory Atmosphere taken at the time of measurement.
- CAN-001: Results for Pressure Gauge as Received are obtained from uncalibrated field gauges and are indicative only. These results may not precisely match calibrated gauge readings and may vary from field
 measurements due to changes in temperature and pressure

Analytical Results

Sub-Matrix: AIR (Matrix: AIR)			Sample ID	AQ_CN C4973 S12202	AQ_CS C40211 S15007	AQ_S2 C4763 S1613	AQ_S3 C4991 S12208	AQ_S1 C40221 S1620
		Sampli	ng date / time	18-Aug-2021 08:15	18-Aug-2021 12:44	18-Aug-2021 10:12	18-Aug-2021 11:12	18-Aug-2021 09:33
Compound	CAS Number	LOR	Unit	EN2108023-001	EN2108023-002	EN2108023-003	EN2108023-004	EN2108023-005
				Result	Result	Result	Result	Result
EP101: VOCs by USEPA Method TO15 (Calculated Concentration)								
Benzene	71-43-2	1.6	µg/m³	<1.6	<1.6	<1.6		
Toluene	108-88-3	1.9	µg/m³	<1.9	<1.9	<1.9		
Ethylbenzene	100-41-4	2.2	µg/m³	<2.2	<2.2	<2.2		
meta- & para-Xylene	108-38-3 106-42-3	4.3	µg/m³	<4.3	<4.3	<4.3		
ortho-Xylene	95-47-6	2.2	µg/m³	<2.2	<2.2	<2.2		
Naphthalene	91-20-3	2.6	µg/m³	<2.6	<2.6	<2.6		
Total Xylenes		6.5	µg/m³	<6.5	<6.5	<6.5		
EP101: VOCs by USEPA Method TO1	5r							
Benzene	71-43-2	0.5	ppbv	<0.5	<0.5	<0.5		
Toluene	108-88-3	0.5	ppbv	<0.5	<0.5	<0.5		
Ethylbenzene	100-41-4	0.5	ppbv	<0.5	<0.5	<0.5		
meta- & para-Xylene	108-38-3 106-42-3	1.0	ppbv	<1.0	<1.0	<1.0		
ortho-Xylene	95-47-6	0.5	ppbv	<0.5	<0.5	<0.5		
Naphthalene	91-20-3	0.5	ppbv	<0.5	<0.5	<0.5		
Total Xylenes		1.5	ppbv	<1.5	<1.5	<1.5		
EP104: Light Hydrocarbons								
Methane	74-82-8	0.0005	Mol %			<0.0010	<0.0010	<0.0010
EP104: Light Hydrocarbons (Calc Cor	nc)							
Methane	74-82-8	3.30	mg/m³			<6.60	<6.60	<6.60
Sampling Quality Assurance								
Pressure - As received	PRESSURE	0.1	kPaa	85.2	81.5	92.1	91.2	95.7
Pressure - Gauge as Received		1	Inches Hg	-4	-9	-5	-3	-3
Pressure - Laboratory Atmosphere		0.1	kPaa	101	102	101	102	101
Temperature as Received		0.1	°C	20.0	20.0	20.0	20.0	20.0
EP101: Surrogates								
4-Bromofluorobenzene	460-00-4	0.5	%	106	103	107		

Page	: 4 of 4
Work Order	: EN2108023
Client	: Bennett Resources PTY LTD
Project	: Air Quality Monitoring

Surrogate Control Limits

Sub-Matrix: AIR		Recovery	Limits (%)
Compound	CAS Number	Low	High
EP101: Surrogates			
4-Bromofluorobenzene	460-00-4	60	140

	CI	ERTIFICATE OF ANALYSIS		
Work Order	EN2109362	Page	: 1 of 4	
Amendment	: 1			
Client	: Bennett Resources PTY LTD	Laboratory	: Environmental Division N	Vewcastle
Contact	:	Contact	: Hayley Withers	
Address		Address	: 5/585 Maitland Road Ma	yfield West NSW Australia 2304
Telephone	:	Telephone	: +	
Project	: Air Quality Monitoring	Date Samples Received	: 22-Oct-2021 09:59	ANNIND.
Order number	:	Date Analysis Commenced	: 25-Oct-2021	
C-O-C number	:	Issue Date	: 22-Nov-2021 09:40	NATA
Sampler	:			Hac-MRA NAIA
Site	:			
Quote number	: NE/066/21			Accreditation No. 825
No. of samples received	: 5			Accredited for compliance with
No. of samples analysed	: 5			ISO/IEC 17025 - Testing

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- Analytical Results
- Surrogate Control Limits

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Dale Semple	Analyst	Newcastle - Organics, Mayfield West, NSW
Daniel Junek	Senior Air Analyst	Newcastle - Organics, Mayfield West, NSW
Daniel Junek	Senior Air Analyst	Newcastle, Mayfield West, NSW

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- EP101-H: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP101-H: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP104: Sample canisters were received at sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly.
- EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa.
- CAN-001: Results for Pressure As Received are measured under controlled conditions using calibrated laboratory gauges. These results are expressed as an Absolute Pressure. Equivalent gauge pressures
 may be calculated by subtracting the Pressure Laboratory Atmosphere taken at the time of measurement.
- CAN-001: Results for Pressure Gauge as Received are obtained from uncalibrated field gauges and are indicative only. These results may not precisely match calibrated gauge readings and may vary from field measurements due to changes in temperature and pressure

Analytical Results

Sub-Matrix: AIR (Matrix: AIR)			Sample ID	AQ_CN C12640 S15017	AQ_CS C40224 S12206	AQ_S2 C12630 S12208	AQ_S3 C4768 S15007	AQ_S1 C40251 S2849	
		Sampli	ng date / time	21-Sep-2021 14:45	21-Sep-2021 15:55	21-Sep-2021 16:30	21-Sep-2021 17:00	21-Sep-2021 16:20	
Compound	CAS Number	LOR	Unit	EN2109362-001	EN2109362-002	EN2109362-003	EN2109362-004	EN2109362-005	
				Result	Result	Result	Result	Result	
EP101: VOCs by USEPA Method TO15 (Calculated Concentration)									
Benzene	71-43-2	1.6	µg/m³	<1.6	<1.6	<1.6			
Toluene	108-88-3	1.9	µg/m³	<1.9	<1.9	<1.9			
Ethylbenzene	100-41-4	2.2	µg/m³	<2.2	<2.2	<2.2			
meta- & para-Xylene	108-38-3 106-42-3	4.3	µg/m³	<4.3	<4.3	<4.3			
ortho-Xylene	95-47-6	2.2	µg/m³	<2.2	<2.2	<2.2			
Naphthalene	91-20-3	2.6	µg/m³	<2.6	<2.6	<2.6			
Total Xylenes		6.5	µg/m³	<6.5	<6.5	<6.5			
EP101: VOCs by USEPA Method TO1	5r								
Benzene	71-43-2	0.5	ppbv	<0.5	<0.5	<0.5			
Toluene	108-88-3	0.5	ppbv	<0.5	<0.5	<0.5			
Ethylbenzene	100-41-4	0.5	ppbv	<0.5	<0.5	<0.5			
meta- & para-Xylene	108-38-3 106-42-3	1.0	ppbv	<1.0	<1.0	<1.0			
ortho-Xylene	95-47-6	0.5	ppbv	<0.5	<0.5	<0.5			
Naphthalene	91-20-3	0.5	ppbv	<0.5	<0.5	<0.5			
Total Xylenes		1.5	ppbv	<1.5	<1.5	<1.5			
EP104: Light Hydrocarbons									
Methane	74-82-8	0.0005	Mol %			<0.0010	<0.0010	<0.0010	
EP104: Light Hydrocarbons (Calc Co	nc)								
Methane	74-82-8	3.30	mg/m³			<6.60	<6.60	<6.60	
Sampling Quality Assurance									
Pressure - As received	PRESSURE	0.1	kPaa	82.6	87.2	83.9	86.4	84.5	
Pressure - Gauge as Received		1	Inches Hg	-5	-6	-4	-4	-6	
Pressure - Laboratory Atmosphere		0.1	kPaa	101	101	102	101	102	
Temperature as Received		0.1	°C	20.0	20.0	20.0	20.0	20.0	
EP101: Surrogates									
4-Bromofluorobenzene	460-00-4	0.5	%	100	100	98.4			

Page	: 4 of 4
Work Order	: EN2109362 Amendment 1
Client	: Bennett Resources PTY LTD
Project	: Air Quality Monitoring

Surrogate Control Limits

Sub-Matrix: AIR		Recovery	Limits (%)
Compound	CAS Number	Low	High
EP101: Surrogates			
4-Bromofluorobenzene	460-00-4	60	140

CERTIFICATE OF ANALYSIS Work Order : EN2109685 Page : 1 of 4 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone . ____ Project Date Samples Received : Air Quality Monitoring : 02-Nov-2021 11:20 Order number Date Analysis Commenced : 03-Nov-2021 · ____ C-O-C number Issue Date · 22-Nov-2021 09:40 Sampler · ____ Site ____ Quote number : NE/066/21 "uhuhu Accreditation No. 825 No. of samples received : 5 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 5

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- Analytical Results
- Surrogate Control Limits

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Daniel Junek	Senior Air Analyst	Newcastle - Organics, Mayfield West, NSW
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~ = Indicates an estimated value.

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- EP104: Sample canisters were received at sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly.
- EP101-H: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP101-H: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP104: Sample canisters were received at low or sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly
- EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa.
- CAN-001: Results for Pressure As Received are measured under controlled conditions using calibrated laboratory gauges. These results are expressed as an Absolute Pressure. Equivalent gauge pressures may be calculated by subtracting the Pressure Laboratory Atmosphere taken at the time of measurement.
- CAN-001: Results for Pressure Gauge as Received are obtained from uncalibrated field gauges and are indicative only. These results may not precisely match calibrated gauge readings and may vary from field measurements due to changes in temperature and pressure

Page	: 3 of 4
Work Order	: EN2109685
Client	: Bennett Resources PTY LTD
Project	Air Quality Monitoring

Analytical Results

Sub-Matrix: AIR (Matrix: AIR)			Sample ID	AQ_CN C12635 S12204	AQ_CS C4973 S1620	AQ_S2 C40205 S1613	AQ_S1 C40239 S1614	AQ_S3 C40200 S2846
	Sampling date / time			21-Oct-2021 11:00	21-Oct-2021 09:19	21-Oct-2021 10:00	21-Oct-2021 10:30	21-Oct-2021 09:45
Compound	CAS Number	LOR	Unit	EN2109685-001	EN2109685-002	EN2109685-003	EN2109685-004	EN2109685-005
				Result	Result	Result	Result	Result
EP101: VOCs by USEPA Method TO15 (Calculated Concentration)								
Benzene	71-43-2	1.6	µg/m³	<1.6	<1.6	<1.6		
Toluene	108-88-3	1.9	µg/m³	<1.9	<1.9	<1.9		
Ethylbenzene	100-41-4	2.2	µg/m³	<2.2	<2.2	<2.2		
meta- & para-Xylene	108-38-3 106-42-3	4.3	µg/m³	<4.3	<4.3	<4.3		
ortho-Xylene	95-47-6	2.2	µg/m³	<2.2	<2.2	<2.2		
Naphthalene	91-20-3	2.6	µg/m³	<2.6	<2.6	<2.6		
Total Xylenes		6.5	µg/m³	<6.5	<6.5	<6.5		
EP101: VOCs by USEPA Method TO1	5r							
Benzene	71-43-2	0.5	ppbv	<0.5	<0.5	<0.5		
Toluene	108-88-3	0.5	ppbv	<0.5	<0.5	<0.5		
Ethylbenzene	100-41-4	0.5	ppbv	<0.5	<0.5	<0.5		
meta- & para-Xylene	108-38-3 106-42-3	1.0	ppbv	<1.0	<1.0	<1.0		
ortho-Xylene	95-47-6	0.5	ppbv	<0.5	<0.5	<0.5		
Naphthalene	91-20-3	0.5	ppbv	<0.5	<0.5	<0.5		
Total Xylenes		1.5	ppbv	<1.5	<1.5	<1.5		
EP104: Light Hydrocarbons								
Methane	74-82-8	0.0005	Mol %			<0.0010	<0.0010	<0.0010
EP104: Light Hydrocarbons (Calc Co	nc)							
Methane	74-82-8	3.30	mg/m³			<6.60	<6.60	<6.60
Sampling Quality Assurance								
Pressure - As received	PRESSURE	0.1	kPaa	91.5	83.1	91.9	92.4	92.2
Pressure - Gauge as Received		1	Inches Hg	-4	-4	-5	-4	-4
Pressure - Laboratory Atmosphere		0.1	kPaa	102	102	102	102	102
Temperature as Received		0.1	°C	20.0	20.0	20.0	20.0	20.0
EP101: Surrogates								
4-Bromofluorobenzene	460-00-4	0.5	%	95.4	94.9	94.8		

Page	: 4 of 4
Work Order	: EN2109685
Client	: Bennett Resources PTY LTD
Project	: Air Quality Monitoring

Surrogate Control Limits

Sub-Matrix: AIR	Recovery Limits (%)			
Compound	CAS Number	Low	High	
EP101: Surrogates				
4-Bromofluorobenzene	460-00-4	60	140	

CERTIFICATE OF ANALYSIS : EN2110478 Work Order Page : 1 of 4 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone . ____ Project Date Samples Received : Air Quality Monitoring : 26-Nov-2021 09:15 Order number Date Analysis Commenced : -----: 30-Nov-2021 C-O-C number Issue Date : 05-Jan-2022 09:40 · ____ Sampler : TN/SV Site · ____ Quote number : NE/066/21 "uhuhu Accreditation No. 825 No. of samples received : 5 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 5

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- Analytical Results
- Surrogate Control Limits

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 ϕ = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP104: Results reported in mg/m³ are calculated from Mol% results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa
- EP104: Sample canisters were received at sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly.
- EP101-H: Where reported, Total Trimethylbenzenes is the sum of the reported concentrations of 1.2.3-Trimethylbenzene, 1.2.4-Trimethylbenzene and 1.3.5-Trimethylbenzene at or above the LOR.
- EP101-H: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP104: Sample canisters were received at low or sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly
- EP101, EP104: Particular samples were received outside of recommended ALS holding times for the analysis of BTEXN and low-level methane. Results should be scrutinised accordingly.
- EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa.
- CAN-001: Results for Pressure As Received are measured under controlled conditions using calibrated laboratory gauges. These results are expressed as an Absolute Pressure. Equivalent gauge pressures may be calculated by subtracting the Pressure Laboratory Atmosphere taken at the time of measurement.
- CAN-001: Results for Pressure Gauge as Received are obtained from uncalibrated field gauges and are indicative only. These results may not precisely match calibrated gauge readings and may vary from field measurements due to changes in temperature and pressure

Page	: 3 of 4
Work Order	: EN2110478
Client	: Bennett Resources PTY LTD
Project	Air Quality Monitoring

Analytical Results

Sub-Matrix: AIR			Sample ID	AQ_CN	AQ_CS	AQ_S2	AQ_S1	AQ_S3	
(Matrix: AIR)				C40217 _S833	C40222 _S1619	C40215_S1616	C40212_S1615	C12647_S1617	
		Sampli	ng date / time	16-Nov-2021 07:20	16-Nov-2021 09:20	16-Nov-2021 08:30	16-Nov-2021 08:00	16-Nov-2021 08:45	
Compound	CAS Number	LOR	Unit	EN2110478-001	EN2110478-002	EN2110478-003	EN2110478-004	EN2110478-005	
				Result	Result	Result	Result	Result	
EP101: VOCs by USEPA Method TO15 (Calculated Concentration)									
Benzene	71-43-2	1.6	µg/m³	<1.6	<1.6	<1.6			
Toluene	108-88-3	1.9	µg/m³	<1.9	<1.9	<1.9			
Ethylbenzene	100-41-4	2.2	µg/m³	<2.2	<2.2	<2.2			
meta- & para-Xylene	108-38-3 106-42-3	4.3	µg/m³	<4.3	<4.3	<4.3			
ortho-Xylene	95-47-6	2.2	µg/m³	<2.2	<2.2	<2.2			
Naphthalene	91-20-3	2.6	µg/m³	<2.6	<2.6	<2.6			
Total Xylenes		6.5	µg/m³	<6.5	<6.5	<6.5			
EP101: VOCs by USEPA Method TO1	5r								
Benzene	71-43-2	0.5	ppbv	<0.5	<0.5	<0.5			
Toluene	108-88-3	0.5	ppbv	<0.5	<0.5	<0.5			
Ethylbenzene	100-41-4	0.5	ppbv	<0.5	<0.5	<0.5			
meta- & para-Xylene	108-38-3 106-42-3	1.0	ppbv	<1.0	<1.0	<1.0			
ortho-Xylene	95-47-6	0.5	ppbv	<0.5	<0.5	<0.5			
Naphthalene	91-20-3	0.5	ppbv	<0.5	<0.5	<0.5			
Total Xylenes		1.5	ppbv	<1.5	<1.5	<1.5			
EP104: Light Hydrocarbons									
Methane	74-82-8	0.0005	Mol %			<0.0010	<0.0010	<0.0010	
EP104: Light Hydrocarbons (Calc Co	nc)								
Methane	74-82-8	3.30	mg/m³			<6.60	<6.60	<6.60	
Sampling Quality Assurance									
Pressure - As received	PRESSURE	0.1	kPaa	67.8	93.6	92.5	93.3	81.8	
Pressure - Gauge as Received		1	Inches Hg	-10	-4	-4	-14	-8	
Pressure - Laboratory Atmosphere		0.1	kPaa	101	101	101	101	101	
Temperature as Received		0.1	°C	20.0	20.0	20.0	20.0	20.0	
EP101: Surrogates									
4-Bromofluorobenzene	460-00-4	0.5	%	89.9	90.4	89.8			

Page	: 4 of 4
Work Order	: EN2110478
Client	: Bennett Resources PTY LTD
Project	: Air Quality Monitoring

Surrogate Control Limits

Sub-Matrix: AIR	Recovery Limits (%)			
Compound	CAS Number	Low	High	
EP101: Surrogates				
4-Bromofluorobenzene	460-00-4	60	140	

CERTIFICATE OF ANALYSIS : EN2105415 Work Order Page : 1 of 2 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone ----Project Date Samples Received : Air Quality Monitoring : 27-Jul-2021 09:00 Order number Date Analysis Commenced : 28-Jul-2021 · ____ C-O-C number Issue Date : 01-Sep-2021 08:41 Sampler · ____ Site ____ Quote number : NE/066/21 "uhuhu Accreditation No. 825 No. of samples received : 3 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 3

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Zoran Grozdanovski	Laboratory Operator	Newcastle - Inorganics, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

 \sim = Indicates an estimated value.

• Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.

Analytical Results

Sub-Matrix: DEPOSITIONAL DUST (Matrix: AIR)			Sample ID	AQ_CN 22/06/21 - 21/07/21	AQ_CS 22/06/21 - 21/07/21	AQ_S2 22/06/21 - 21/07/21	
		Sampli	ng date / time	21-Jul-2021 00:00	21-Jul-2021 00:00	21-Jul-2021 00:00	
Compound	CAS Number	LOR	Unit	EN2105415-001	EN2105415-002	EN2105415-003	
				Result	Result	Result	
EA120: Ash Content							
Ash Content		0.1	g/m².month	0.5	1.0	1.6	
Ash Content (mg)		1	mg	8	17	27	
EA125: Combustible Matter							
Combustible Matter		0.1	g/m².month	<0.1	<0.1	0.7	
Combustible Matter (mg)		1	mg	1	<1	13	
EA141: Total Insoluble Matter							
Total Insoluble Matter		0.1	g/m².month	0.5	1.0	2.3	
Total Insoluble Matter (mg)		1	mg	9	17	40	

CERTIFICATE OF ANALYSIS : EN2107605 Work Order Page : 1 of 2 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone . ____ Project Date Samples Received : Air Quality Monitoring : 01-Sep-2021 08:45 Order number Date Analysis Commenced : 03-Sep-2021 : -----C-O-C number Issue Date : 16-Sep-2021 09:42 ----Sampler Site ____ Quote number : NE/066/21 hululu Accreditation No. 825 No. of samples received : 3 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 3

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Signatories

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Signatories	Position	Accreditation Category
Zoran Grozdanovski	Laboratory Operator	Newcastle - Inorganics, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

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LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

 \sim = Indicates an estimated value.

• Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.

Analytical Results

Sub-Matrix: DEPOSITIONAL DUST (Matrix: AIR)	Sample ID		AQ_CN 21/07/21 - 18/08/21	AQ_CS 21/07/21 - 18/08/21	AQ_S2 21/07/21 - 18/08/21	 	
		Sampli	ng date / time	18-Aug-2021 00:00	18-Aug-2021 00:00	18-Aug-2021 00:00	
Compound	CAS Number	LOR	Unit	EN2107605-001	EN2107605-002	EN2107605-003	
				Result	Result	Result	
EA120: Ash Content							
Ash Content		0.1	g/m².month	0.2	2.0	1.2	
Ash Content (mg)		1	mg	3	33	20	
EA125: Combustible Matter							
Combustible Matter		0.1	g/m².month	<0.1	0.3	0.1	
Combustible Matter (mg)		1	mg	<1	5	2	
EA141: Total Insoluble Matter							
Total Insoluble Matter		0.1	g/m².month	0.2	2.3	1.3	
Total Insoluble Matter (mg)		1	mg	3	38	22	

CERTIFICATE OF ANALYSIS : EN2108715 Work Order Page : 1 of 2 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone . ____ Project Date Samples Received : Air Quality Monitoring : 06-Oct-2021 09:00 Order number Date Analysis Commenced : 07-Oct-2021 : -----C-O-C number Issue Date : 18-Oct-2021 10:11 ____ Sampler Site ____ Quote number : NE/066/21 hululu Accreditation No. 825 No. of samples received : 3 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 3

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Signatories

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Signatories	Position	Accreditation Category
Zoran Grozdanovski	Laboratory Operator	Newcastle - Inorganics, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

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Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

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~ = Indicates an estimated value.

• Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation is not held for results reported in g/m².mth as sampling data was provided by he client.

• Sample exposure period is 34 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.

Analytical Results

Sub-Matrix: DEPOSITIONAL DUST (Matrix: AIR)			Sample ID	AQ_CN 18/08/21 - 21/09/21	AQ_CS 18/08/21 - 21/09/21	AQ_S2 18/08/21 - 21/09/21	
	Sampling date / time			21-Sep-2021 00:00	21-Sep-2021 00:00	21-Sep-2021 00:00	
Compound	CAS Number	LOR	Unit	EN2108715-001	EN2108715-002	EN2108715-003	
				Result	Result	Result	
EA120: Ash Content							
Ash Content		0.1	g/m².month	2.2	3.2	0.9	
Ash Content (mg)		1	mg	44	65	18	
EA125: Combustible Matter							
Combustible Matter		0.1	g/m².month	1.2	0.8	0.1	
Combustible Matter (mg)		1	mg	25	15	3	
EA141: Total Insoluble Matter							
Total Insoluble Matter		0.1	g/m².month	3.4	4.0	1.0	
Total Insoluble Matter (mg)		1	mg	69	80	21	

CERTIFICATE OF ANALYSIS : EN2109684 Work Order Page : 1 of 2 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone ----Project Date Samples Received : Air Quality Monitoring : 02-Nov-2021 11:20 Order number Date Analysis Commenced : 03-Nov-2021 · ____ C-O-C number Issue Date : 22-Nov-2021 09:40 Sampler · ____ Site ____ Quote number : NE/066/21 "uhuhu Accreditation No. 825 No. of samples received : 3 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 3

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- Analytical Results

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Signatories

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Signatories	Position	Accreditation Category
Zoran Grozdanovski	Laboratory Operator	Newcastle - Inorganics, Mayfield West, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

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 \sim = Indicates an estimated value.

• Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation is not held for results reported in g/m².mth as sampling data was provided by he client.

Analytical Results

Sub-Matrix: DUST (Matrix: AIR)			Sample ID	AQ_CN 21/09/21 - 20/10/21	AQ_CS 21/09/21 - 20/10/21	AQ_S2 21/09/21 - 20/10/21	
		Sampli	ng date / time	20-Oct-2021 06:30	20-Oct-2021 08:09	20-Oct-2021 09:30	
Compound	CAS Number	LOR	Unit	EN2109684-001	EN2109684-002	EN2109684-003	
				Result	Result	Result	
EA120: Ash Content							
Ash Content		0.1	g/m².month	0.5	2.1	0.9	
Ash Content (mg)		1	mg	9	36	16	
EA125: Combustible Matter							
Combustible Matter		0.1	g/m².month	0.1	0.1	<0.1	
Combustible Matter (mg)		1	mg	1	1	<1	
EA141: Total Insoluble Matter							
Total Insoluble Matter		0.1	g/m².month	0.6	2.2	0.9	
Total Insoluble Matter (mg)		1	mg	10	37	16	

CERTIFICATE OF ANALYSIS : EN2110479 Work Order Page : 1 of 2 Client Laboratory Bennett Resources PTY LTD : Environmental Division Newcastle Contact Contact : Hayley Withers Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Address Telephone Telephone ----Project Date Samples Received : Air Quality Monitoring : 26-Nov-2021 09:15 Order number Date Analysis Commenced : 30-Nov-2021 : -----C-O-C number Issue Date : 07-Dec-2021 17:18 ____ Sampler Site Quote number : NE/066/21 "uhuhu Accreditation No. 825 No. of samples received : 3 Accredited for compliance with ISO/IEC 17025 - Testing No. of samples analysed : 3

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- Analytical Results

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Signatories

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Signatories	Position	Accreditation Category
Jennifer Targett	Quality Coordinator	Newcastle - Inorganics, Mayfield West, NSW

General Comments

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ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

• Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.

• Sample exposure period is 27 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.

Analytical Results

Sub-Matrix: DEPOSITIONAL DUST (Matrix: AIR)			Sample ID	AQ_CN 20/10/21-16/11/21	AQ_CS 20/10/21-16/11/21	AQ_S2 20/10/21-16/11/21	
	Sampling date / time			16-Nov-2021 00:00	16-Nov-2021 00:00	16-Nov-2021 00:00	
Compound	CAS Number	LOR	Unit	EN2110479-001	EN2110479-002	EN2110479-003	
				Result	Result	Result	
EA120: Ash Content							
Ash Content		0.1	g/m².month	0.9	19.9	2.1	
Ash Content (mg)		1	mg	15	317	33	
EA125: Combustible Matter							
Combustible Matter		0.1	g/m².month	<0.1	1.6	0.2	
Combustible Matter (mg)		1	mg	<1	25	3	
EA141: Total Insoluble Matter							
Total Insoluble Matter		0.1	g/m².month	0.9	21.5	2.3	
Total Insoluble Matter (mg)		1	mg	15	342	36	