30th January, 2024



Mr M Collins Collins Construction Materials Pty Ltd 214 MacArthur Road Elderslie NSW 2570

Dear Matt,

Re: Environmental Monitoring – Spring Farm: Report 2024-1

Our Ref: 201019

Harvest Scientific Services

Environmental and Earth Science Consultants

This is to confirm that groundwater sampling and dust monitoring at Spring Farm (see Appendix 1 for sample locations) has been carried out with the results summarised in Tables 1 and 2 respectively below.

(a) GROUNDWATER MONITORING

TAE	TABLE 1: SUMMARY OF GROUNDWATER MONITORING RESULTS.											
ANALYTE	VALUE	DATE	ТІМЕ	ТЕМР								
EC (uS/cm)	263 (Non-Saline)	< 800 uS/cm										
рН	6.04 (Moderately alkaline)	4 - 6.50	12-1-2024	10.00	24°C							
Depth to Water Table (m) ¹	11.3	> 10 m										

Notes: 1. This value represents the depth to groundwater from the TOP OF THE STAND PIPE (670 mm above ground level); 2. Refer to Appendix 2 for laboratory analysis results and monthly summary data 3 Refer to Appendix 3 for quality control documentation.

The results indicate that groundwater is:

- Non-saline and is well below the nominated target of < 800uS/cm;
- Moderately alkaline falling marginally within the upper margin of target pH range of 4 6.50;
- Met the limit of the target depth of > 10 m.

(b) DUST MONITORING

	TABLE 2: S	UMMARY OF DUST DE	POSITION MONITORING F	RESULTS.	
SAMPLING PERIOD	TABLE 2: SUMMARY OF DUSTLOCATIONTOTAL INSOLUBI MATTER1 (g/m2/month)11.326.731.1		Ash or Mineral Content (g/m2/month)	COMMENT	EMP targets (Ash or Mineral Content)
	1	1.3	NTA	Pass	
December	2	6.7	6.1	Fail	≤ 4g / m2 per month
2023	3	1.1	NTA	Pass	permontin

Notes: 1.Refer to Appendix 1 for monitoring locations. 2. Refer to Appendix 2 for laboratory analysis results and monthly summary data. Refer to Appendix 3 for quality control documentation.

The EMP target values were met at all Monitoring Stations except Station 2.

Yours faithfully,

Mart Rampe BSc (Applied Geology) Principal Consultant

> All Correspondence to: PO Box 427 Narellan NSW 2567 Unit 4A, 20 Somerset Avenue Narellan NSW 2567 www.harvestservices.com.au Email: office@harvestservices.com.au Tel: 02 4647 6177 • Mobile: 0408 677 709

APPENDIX 1: Collins Spring Farm Monitoring Locations

MS 1: Dust MS 2: Dust MS 3: Dust

GW-1: Groundwater



APPENDIX 2: Laboratory Analytical Results and Monthly Summary Data

Groundwater Results

Date	Time	Temp. (°C)	EC (uS/cm)	рН	Depth to Water Table (m) from top of stand pipe	Comments
4/01/2016	11:00	20	409	5.00	11.50	
5/02/2016 3/03/2016	10:45 9:00	22 23	410 399	5.61 5.23	11.60 11.60	
6/04/2016	9:00	23	359	5.03	11.40	
5/05/2016 3/06/2016	12:30 2:00	22 18	363 377	5.77 5.47	11.50 11.60	
4/07/2016	12.30	13	372	5.32	10.70	
3/08/2016 5/09/2016	10.00 10.00	12 12	261 250	6.84 5.62	10.70 10.40	
1/10/2016	10.00	12	252	6.16	10.50	
1/11/2016 1/12/2016	8.00 8.00	11 12	296 352	5.93 5.63	10.70 10.70	
6/01/2017	11.00	21	363	5.45	10.70	
3/02/2017 3/03/2017	8.30 8.30	22 23	334 361	5.53 5.25	11.10 11.10	
4/04/2017	8.30	16	392	5.46	10.80	
1/05/2017 1/06/2017	10.30 8.00	16 8	294 373	6.09 5.12	10.70 11.00	
3/07/2017	8.00	2	356	5.63	10.90	
1/08/2017 4/09/2017	9.00 9.00	12 12	346 352	6.00 5.63	11.00 11.00	
10/10/2017	8.00	16	349	5.57	11.10	
6/11/2017 5/12/2017	9.00 9.00	16 18	326 304	5.06 5.42	11.00 11.20	
11/01/2018	9.00	22	305	5.72	11.10	
7/02/2018 7/03/2018	10.00 9.00	25 20	303 302	4.94 4.86	<u> </u>	
6/04/2018	10.00	22	318	5.43	11.40	
3/05/2018 5/06/2018	10.00 10.00	12 14	307 304	5.37 5.60	11.50 11.60	}
6/07/2018	10.00	20 15	306	5.61	11.50	
2/08/2018 3/09/2018	9.00 10.00	15	303 311	5.95 5.57	11.50 11.60	
3/10/2018	10.00	14	338	6.24	11.60	
5/11/2018 3/12/2018	10.00 8.30	20 20	324 324	6.25 6.09	11.60 11.60	
11/01/2019	10.00	23	291	6.07	11.50	
4/02/2019 5/03/2019	8.00 10.00	22 25	264 262	5.72 5.60	11.50 11.60	
1/04/2019	10.00	18	273	5.62	11.60	
1/05/2019 31/05/2019	10.00 10.00	17 9	221 293	5.81 5.28	11.60 11.70	
27/06/2019	9.00	10	288	5.85	11.70	
2/08/2019 2/09/2019	9.00 10.00	5 13	318 318	7.48 5.37	11.80 11.80	
3/10/2019	10.00	21	310	6.57	11.80	
5/11/2019 4/12/2019	10.00 10.00	23 21	318 307	5.78 6.15	11.80 11.80	
2/01/2020	10.00	23 19	302	5.66	11.80	
4/02/2020 3/03/2020	10.00 2.00	23	344 298	5.57 5.83	11.90 10.96	
1/04/2020 4/05/2020	11.00 11.00	22 21	304 299	5.65 5.55	11.10 11.10	
1/06/2020	11.00	19	272	6.14	11.10	
2/07/2020 3/08/2020	8.00 10.00	3 5	243 267	6.79 6.02	11.50 11.50	
2/09/2020	8.00	6	285	5.57	11.30	
1/10/2020 3/11/2020	8.00 10.00	15 15	255 274	6.45 6.01	11.30 11.30	
11/12/2020	10.00	13	259	5.94	11.30	
11/01/2021 9/02/2021	10.00 10.00	21 21	272 291	5.57 5.76	11.40 11.40	
8/03/2021	11.00	27	293	5.73	11.45	
6/04/2021 5/05/2021	10.00 10.00	23 15	288 291	5.78 5.59	11.00 10.40	
3/06/2021	10.00	10	258	5.41	10.30	
5/07/2021 4/08/2021	10.00 10.00	6 15	154 153	5.77 6.63	10.70 10.90	
1/09/2021	10.00	14	168	6.74	11.00	
5/10/2021 2/11/2021	10.00 10.00	18 20	156 163	7.36 6.07	<u> </u>	
3/12/2021	10.00	21	174	5.65	11.10	
10/01/2022 2/02/2022	10.00 10.00	25 21	178 214	6.83 5.52	11.00 11.00	
1/04/2022	10.00	16	264	5.49	7.00	
2/05/2022 6/06/2022	10.00 10.00	15 11	92 100	7.67 6.14	7.40 8.40	
1/07/2022	10.00	10	95	6.36	9.10	
4/08/2022 2/09/2022	11.00 10.00	20 14	202 223	7.39 5.85	7.70	
4/10/2022	10.00	15	235	5.60	9.40	
4/11/2022 13/12/2022	10.00 10.00	18 22	188 169	5.83 5.81	8.60 9.70	
10/01/2023	10.00	23	176	5.95	9.90	
6/02/2023 9/03/2023	10.00 10.00	24 18	186 181	6.20 6.17	10.20 10.50	
3/04/2023	10.00	19	180	6.41	10.70	
3/05/2023 6/06/2023	10.00 10.00	12 8	182 185	6.24 7.55	10.80 11.10	
5/07/2023	10.00	15	181	7.51	11.10	
4/08/2023 5/09/2023	10.00 10.00	13 20	190 184	6.91 6.68	<u> </u>	
4/10/2023	10.00	21	182	6.42	11.50	
7/11/2023	10.00	23 24	187 190	6.56 7.26	11.40	
6/12/2023	10.00	741		7.201	11.40	

ENVIRONMENTAL MONITORING: COLLINS CONSTRUCTION MATERIAL PTY LTD - SPRING FARM



CERTIFICATE OF ANALYSIS Page Work Order : ES2401184 : 1 of 2 Client : HARVEST SCIENTIFIC SERVICES Laboratory : Environmental Division Sydney Contact : MART RAMPE Contact : Customer Services ES Address Address : 277-289 Woodpark Road Smithfield NSW Australia 2164 : PO BOX 427 NARELLAN NSW, AUSTRALIA 2567 Telephone Telephone : +61-2-8784 8555 : -----Project : COLLINS SPIRNG FARM **Date Samples Received** : 15-Jan-2024 13:30 Order number : 2024-1 Date Analysis Commenced : 15-Jan-2024 C-O-C number Issue Date : -----: 16-Jan-2024 11:27 Sampler : MART RAMPE Site : -----Quote number : EN/333 "Julula Accreditation No. 825 No. of samples received : 1 Accredited for compliance with

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.

ISO/IEC 17025 - Testing

This Certificate of Analysis contains the following information:

: 1

- 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

No. of samples analysed

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
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, 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 Contract 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.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)					 	
	Sampling date / time				 	
Compound	CAS Number	LOR	Unit	ES2401184-001	 	
				Result	 	
EA005P: pH by PC Titrator						
pH Value		0.01	pH Unit	6.04	 	
EA010P: Conductivity by PC Titrator						
Electrical Conductivity @ 25°C		1	µS/cm	263	 	

Dust Deposition Results

Period	TIM (g/m2/month) Notes				Controls Implemented
Feriou		1	MS 3	Notes	
Jan-18	1.3	2.0	2.8		
Feb-18	0.5	1.9	5.6	Very hot and dry month	
Mar-18	0.6	0.7	7.2	Very hot and dry month and at times windy	
Apr-18	6.7	1.1	2.6	MS-1 sample polluted - bird droppings?	
May-18	0.4	0.6	2.5		
Jun-18	0.5	0.5	34.1	MS-1 sample highly polluted - anomalous result	
Jul-18	0.4	0.8	0.7		
Aug-18	0.6 1.0	0.9 0.8	0.7 1.5		
Sep-18 Oct-18	0.7	1.2	1.5		
Nov-18	0.7	1.2	1.4		
Dec-18	2.4	0.7	2.0		
Jan-19	1.6	3.5	4.7	Very hot and dry month and at times windy	
Feb-19	1.0	2.5	3.6		
Mar-19	2.0	4.3	1.6	No significant activities noted	
Apr-19	0.7	3.2	1.2		
May-19	0.5	1.9	1.4	Fresh road works around Stations 2 and 3	
Jun-19	0.7	1.3	1.1		
Jul-19	0.2	0.4	0.6		
Aug-19	0.4	0.8	1.4		
Sep-19 Oct 10	1.0	0.3 2.3	1.1 3.8		
Oct-19 Nov-19	1.5 2.4	2.3 1.2	3.8 4.6	Month of high winds and smoke from bushfires	
Jan-20	1.2	2.8	2.2		
Feb-20	6.3	6.5	6.0	Month of high winds, bushfire smoke and drought con	ditions
Mar-20	0.5	11.1	1.2	Earthmoving activities near Station 2 contribute to exit	
Apr-20	0.9	1.2	0.8		
May-20	1.4	0.8	1.4		
Jun-20	0.2	0.8	0.8		
Jul-20	0.3	1.4	0.4		
Aug-20	0.6	2.4	1.1		
Sep-20	0.8	7.7	0.9	Earthmoving activities near Station 2 contribute to ex	ceedance
Oct-20	1.6	28.3	1.6	Earthmoving activities near Station 2 contribute to exe	
Nov-20	10.4	22.4	2.2	Earthmoving activities near Station 2 contribute to exe	
Dec-20	0.8	6.7	3.4	Earthmoving activities near Station 2 contribute to exe	ceedance
Jan-21	0.3 1.8	4.7 6.7	0.8	Chains 2 mound part to other side of drainage line	
Feb-21 Mar-21	0.8	0.9	1.3 1.2	Staion 2 moved east to other side of drainage line	
Apr-21	0.8	3.1	0.7		
May-21	0.1	0.8	2.3		
Jun-21	0.8	4.0	0.8		
Jul-21	0.4	8.5	0.3		
Aug-21	0.2	1.8	0.2		
Sep-21	1.5	4.2	0.7		
Oct-21	1.7	0.3	1.4		
Nov-21	0.5	0.7	1.1		
Dec-21	3.5	0.6	0.6		
Jan-22	0.8	1.2	0.8		
Feb-22	0.6	7.00	0.6	Station 1 lost due to flashing such	
Mar-22 Apr-22	0 0	2.2 2.2	0.7 0.7	Station 1 lost due to flooding event Station 1 lost due to flooding event	
Apr-22 May-22	0	2.2 3.7	0.7	Station 1 lost due to flooding event	
Jun-22	0.7	10.00	1.1	station 1103t due to 1100ding event	
Jul-22	0.2	0.6	0.6		
Aug-22	0	5.3	0.1	Station 1 lost due to flooding event	
Sep-22	0.7	7.4	1.7		
Oct-22	0.8	3.6	1.0		
Nov-22	0.8	5.1	1.6		
Dec-22	2.8	5.4	1.7		
Jan-23	0.1	0.4	0.5		
Feb-23	0.8	0.3	0.7		
Mar-23	1.3	0.2	0.7		
Apr-23	1.3	0.3 0.5	0.7		
May-23 Jun-23	0.5 0.4	0.5 2.7	0.6 0.5		
Jun-23 Jul-23	2.0	2.7	0.5		
Aug-23	0.3	2.4 4.4	1.5	Significant earthworks around Station 2	
Sep-23	1.3	4.4 0.5	0.5		
Oct-23	0.8	0.8	0.9		
Nov-23	0.5	28.5	0.9	SIgnificant earthworks near Station 2 and high winds	
Dec-23	0.1	0.6	1.7		
Jan-24	1.3	6.7	1.1		



CERTIFICATE OF ANALYSIS Page Work Order : EN2400395 : 1 of 2 Client : HARVEST SCIENTIFIC SERVICES Laboratory : Environmental Division Newcastle Contact : MART RAMPE Contact Address Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 : PO BOX 427 NARELLAN NSW, AUSTRALIA 2567 Telephone Telephone : +61 2 4014 2500 : -----Project : COLLINS SPRING FARM **Date Samples Received** : 15-Jan-2024 17:00 Order number : 2024-1 Date Analysis Commenced : 18-Jan-2024 C-O-C number Issue Date : -----: 25-Jan-2024 18:32 Sampler : MART RAMPE Site : -----Quote number : EN/333 Juliah Accreditation No. 825 No. of samples received : 3 Accredited for compliance with

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.

ISO/IEC 17025 - Testing

This Certificate of Analysis contains the following information:

: 3

- 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

No. of samples analysed

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
Thomas Regan	Laboratory Technician	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 Contract 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.

- Dust 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 deposition units e.g., g/m².mth where the sampling procedure is not NATA accredited. ALS Mudgee laboratory is NATA accredited for dust sampling, therefore ALS Mudgee reported deposition units are accredited.
- Sample exposure period is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1/AS3580.10.2

• For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.

Analytical Results

Sub-Matrix: DEPOSITIONAL DUST (Matrix: AIR)	Sample ID		COLLINS 1 06/12/23 - 12/01/24	COLLINS 2 06/12/23 - 12/01/24	COLLINS 3 06/12/23 - 12/01/24	 	
		Sampli	ng date / time	12-Jan-2024 10:00	12-Jan-2024 10:00	12-Jan-2024 10:00	
Compound	CAS Number LOR Unit		EN2400395-001	EN2400395-002	EN2400395-003	 	
				Result	Result	Result	
EA120: Ash Content							
Ash Content		0.1	g/m².month		6.1		
Ash Content (mg)		2	mg		132		
EA141: Total Insoluble Matter							
Total Insoluble Matter		0.1	g/m².month	1.3	6.7	1.1	
Total Insoluble Matter (mg)		2	mg	28	146	23	

APPENDIX 3: Laboratory Quality Control



	QA/QC Compliance A	ssessment to assist wit	h Quality Review	
Work Order	ES2401184	Page	: 1 of 4	
Client		Laboratory	: Environmental Division Sydney	
Contact	: MART RAMPE	Telephone	: +61-2-8784 8555	
Project	: COLLINS SPIRNG FARM	Date Samples Received	: 15-Jan-2024	
Site	:	Issue Date	: 16-Jan-2024	
Sampler	: MART RAMPE	No. of samples received	: 1	
Order number	: 2024-1	No. of samples analysed	: 1	

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- <u>NO</u> Duplicate outliers occur.
- <u>NO</u> Laboratory Control outliers occur.
- <u>NO</u> Matrix Spike outliers occur.
- For all regular sample matrices, <u>NO</u> surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

• Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

• Quality Control Sample Frequency Outliers exist - please see following pages for full details.



Outliers : Analysis Holding Time Compliance

Matrix: WATER

Matrix: WATED

Method	Extraction / Preparation					
Container / Client Sample ID(s)	Date extracted	Due for extraction	Days	Date analysed	Due for analysis	Days
			overdue			overdue
EA005P: pH by PC Titrator						
Clear Plastic Bottle - Natural						
COLLINS GW 1				15-Jan-2024	12-Jan-2024	3

Outliers : Frequency of Quality Control Samples

Matrix: WATER						
Quality Control Sample Type			ount	Rat	e (%)	Quality Control Specification
Analytical Methods Method		QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Conductivity by Auto Titrator	EA010-P	3	38	7.89	10.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Evaluation: \mathbf{x} = Holding time breach ; \mathbf{v} = Within holding time.

Maurx: WATER				Evaluation	. • – Holding time	breach, ▼ = with	in noiuing time.
Method	Sample Date	Extraction / Preparation					
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA005P: pH by PC Titrator							
Clear Plastic Bottle - Natural (EA005-P) COLLINS GW 1	12-Jan-2024				15-Jan-2024	12-Jan-2024	*
EA010P: Conductivity by PC Titrator							
Clear Plastic Bottle - Natural (EA010-P) COLLINS GW 1	12-Jan-2024				15-Jan-2024	09-Feb-2024	1



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER	Evaluation: * = Quality Control frequency not within specification ; 🗸 = Quality Control frequency within specification							
Quality Control Sample Type		Count		Rate (%)			Quality Control Specification	
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation		
Laboratory Duplicates (DUP)								
Conductivity by Auto Titrator	EA010-P	3	38	7.89	10.00	×	NEPM 2013 B3 & ALS QC Standard	
pH by Auto Titrator	EA005-P	2	9	22.22	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
Conductivity by Auto Titrator	EA010-P	4	38	10.53	8.33	✓	NEPM 2013 B3 & ALS QC Standard	
pH by Auto Titrator	EA005-P	2	9	22.22	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
Conductivity by Auto Titrator	EA010-P	3	38	7.89	5.00	✓	NEPM 2013 B3 & ALS QC Standard	



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH by Auto Titrator	EA005-P	WATER	In house: Referenced to APHA 4500 H+ B. This procedure determines pH of water samples by automated ISE.
			This method is compliant with NEPM Schedule B(3)
Conductivity by Auto Titrator	EA010-P	WATER	In house: Referenced to APHA 2510 B. This procedure determines conductivity by automated ISE. This method
			is compliant with NEPM Schedule B(3)



QUALITY CONTROL REPORT

Work Order	: EN2400395	Page	: 1 of 3
Client	: HARVEST SCIENTIFIC SERVICES	Laboratory	: Environmental Division Newcastle
Contact	: MART RAMPE	Contact	:
Address	: PO BOX 427 NARELLAN NSW, AUSTRALIA 2567	Address	: 5/585 Maitland Road Mayfield West NSW Australia 2304
Telephone	:	Telephone	: +61 2 4014 2500
Project	: COLLINS SPRING FARM	Date Samples Received	: 15-Jan-2024
Order number	: 2024-1	Date Analysis Commenced	: 18-Jan-2024
C-O-C number	:	Issue Date	: 25-Jan-2024
Sampler	: MART RAMPE		AC-MRA NAT
Site	:		
Quote number	: EN/333		Accreditation No. 8
No. of samples received	: 3		Accredited for compliance w
No. of samples analysed	: 3		ISO/IEC 17025 - Test

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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

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 Thomas Regan

Laboratory Technician

Position

Accreditation Category

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.

 Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

 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

 RPD = Relative Percentage Difference

 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

• No Laboratory Duplicate (DUP) Results are required to be reported.



Method Blank (MB) and Laboratory Control Sample (LCS) Report

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 term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

• No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



QA/QC Compliance Assessment to assist with Quality Review							
Work Order	EN2400395	Page	: 1 of 4				
Client		Laboratory	: Environmental Division Newcastle				
Contact	: MART RAMPE	Telephone	: +61 2 4014 2500				
Project	: COLLINS SPRING FARM	Date Samples Received	: 15-Jan-2024				
Site	:	Issue Date	: 25-Jan-2024				
Sampler	: MART RAMPE	No. of samples received	: 3				
Order number	: 2024-1	No. of samples analysed	: 3				

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- <u>NO</u> Method Blank value outliers occur.
- <u>NO</u> Duplicate outliers occur.
- <u>NO</u> Laboratory Control outliers occur.
- <u>NO</u> Matrix Spike outliers occur.
- For all regular sample matrices, <u>NO</u> surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

• <u>NO</u> Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

• <u>NO</u> Quality Control Sample Frequency Outliers exist.



Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: AIR				Evaluation	: × = Holding time	breach ; 🗸 = Withi	n holding time
Method	Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA120: Ash Content							
Dust Gauge (Bottle) - Copper Sulfate (EA120) COLLINS 2 - 06/12/23 - 12/01/24	12-Jan-2024				25-Jan-2024	11-Feb-2024	✓
EA141: Total Insoluble Matter							
Dust Gauge (Bottle) - Copper Sulfate (EA141) COLLINS 1 - 06/12/23 - 12/01/24, COLLINS 2 - 06/12/23 - 12/01/24, COLLINS 3 - 06/12/23 - 12/01/24 COLLINS 2 - 06/12/23 - 12/01/24,	12-Jan-2024				25-Jan-2024	11-Feb-2024	~



Quality Control Parameter Frequency Compliance

• No Quality Control data available for this section.



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Ash Content (AC)	EA120	AIR	In house: Referenced to AS 3580.10.1. A gravimetric procedure reporting Ash content in deposited dust.
Total Insoluble Matter (TIM)	EA141	AIR	In house: Referenced to AS 3580.10.1. A gravimetric procedure reporting Total Insoluble solids in deposited dust.