28th August, 2023



Our Ref: 201019

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

Dear Matt,

Re: Environmental Monitoring - Spring Farm: Report 2023-8

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

TABLE 1: SUMMARY OF GROUNDWATER MONITORING RESULTS.										
ANALYTE	VALUE	TARGET	DATE	TIME	TEMP					
EC (uS/cm)	190 (Non-Saline)	< 800 uS/cm								
рН	6.91 4 – 6.50		4-8-2023	10.00	13°C					
PIT	(Moderately alkaline)	4 0.00								
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 outside the nominated pH range of 4 6.50;
- Met the limit of the target depth of > 10 m.

(b) DUST MONITORING

	TABLE 2: SUMMARY OF DUST DEPOSITION MONITORING RESULTS.										
SAMPLING PERIOD	LOCATION TOTAL INSOLUBLE MATTER¹ (g/m2/month)		Ash or Mineral Content (g/m2/month)	COMMENT	EMP targets (Ash or Mineral Content)						
	1	0.3	NTA	Pass							
July	2	4.4	1.5	Fail	≤ 4g / m2 per month						
2023	3	0.2	NTA	Pass	per month						

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 Monitoring Stations 1 and 3 and failed marginally at Station 2.

Yours faithfully,

Mart Rampe BSc (Applied Geology)
Principal Consultant

APPENDIX 1: Collins Spring Farm Monitoring Locations

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

GW-1: Groundwater



tical Results and Mor	nthly Summary Data
	tical Results and Mor

Groundwater Results

GROUNDWATE	R MONITOR	RING STATION (GW-1: COLLINS	SITE 2010	6 - 2023	
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	11.60 11.60	
6/04/2016	9:00	23	359	5.23 5.03	11.40	
5/05/2016	12:30	22	363	5.77	11.50	
3/06/2016	2:00	18	377	5.47	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	8.00	11	296	5.93	10.70	
1/12/2016	8.00	12	352	5.63	10.70	
6/01/2017 3/02/2017	11.00 8.30	21 22	363 334	5.45 5.53	10.70 11.10	
3/03/2017	8.30	23	361	5.25	11.10	
4/04/2017	8.30	16	392	5.46	10.80	
1/05/2017	10.30	16	294	6.09	10.70	
1/06/2017	8.00	8	373	5.12	11.00	
3/07/2017 1/08/2017	8.00 9.00	2 12	356 346	5.63 6.00	10.90 11.00	
4/09/2017	9.00	12	352	5.63	11.00	
10/10/2017	8.00	16	349	5.57	11.10	
6/11/2017	9.00	16	326	5.06	11.00	
5/12/2017	9.00	18	304	5.42	11.20	
11/01/2018 7/02/2018	9.00 10.00	22 25	305 303	5.72 4.94	11.10 11.40	
7/02/2018	9.00	25	303	4.94	11.40	
6/04/2018	10.00	22	318	5.43	11.40	
3/05/2018	10.00	12	307	5.37	11.50	
5/06/2018	10.00	14	304	5.60	11.60	
6/07/2018 2/08/2018	10.00	20 15	306 303	5.61 5.95	11.50 11.50	
3/09/2018	9.00	6	311	5.57	11.60	
3/10/2018	10.00	14	338	6.24	11.60	
5/11/2018	10.00	20	324	6.25	11.60	
3/12/2018	8.30	20	324	6.09	11.60	
11/01/2019	10.00	23	291 264	6.07	11.50	
4/02/2019 5/03/2019	8.00 10.00	22 25	262	5.72 5.60	11.50 11.60	
1/04/2019	10.00	18	273	5.62	11.60	
1/05/2019	10.00	17	221	5.81	11.60	
31/05/2019	10.00	9	293	5.28	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	10.00	23	318	5.78	11.80	
4/12/2019	10.00	21	307	6.15	11.80	
2/01/2020 4/02/2020	10.00 10.00	23 19	302 344	5.66	11.80 11.90	
3/03/2020	2.00	23	298	5.57 5.83	10.96	
1/04/2020	11.00	22	304	5.65	11.10	
4/05/2020	11.00	21	299	5.55	11.10	
1/06/2020	11.00	19	272	6.14	11.40	
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	8.00	15	255	6.45	11.30	
3/11/2020	10.00	15	274	6.01	11.30	
11/12/2020	10.00	19	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	10.00	23	288	5.78	11.00	
5/05/2021	10.00	15	291	5.59	10.40	
3/06/2021 5/07/2021	10.00 10.00	10	258	5.41 5.77	10.30	
4/08/2021	10.00	6 15	154 153	6.63	10.70 10.90	
1/09/2021	10.00	14	168	6.74	11.00	
5/10/2021	10.00	18	156	7.36	11.10	
2/11/2021	10.00	20	163	6.07	11.10	
3/12/2021 10/01/2022	10.00 10.00	21 25	174 178	5.65 6.83	11.10 11.00	
2/02/2022	10.00	25	214	5.52	11.00	
1/04/2022	10.00	16	264	5.49	7.00	
2/05/2022	10.00	15	92	7.67	7.40	
6/06/2022	10.00	11	100	6.14	8.40	
1/07/2022 4/08/2022	10.00 11.00	10 20	95 202	6.36 7.39	9.10 7.70	
2/09/2022	10.00	14	202	5.85	8.90	
4/10/2022	10.00	15	235	5.60	9.40	
4/11/2022	10.00	18	188	5.83	8.60	
13/12/2022	10.00	22	169	5.81	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	10.50	
3/05/2023	10.00	12	182	6.24	10.80	
6/06/2023	10.00	8	185	7.55	11.10	
5/07/2023	10.00	15	181	7.51	11.10	
4/08/2023	10.00	13	190	6.91	11.30	



CERTIFICATE OF ANALYSIS

Work Order : ES2326171

Client : HARVEST SCIENTIFIC SERVICES

Contact : MART RAMPE

Address : PO BOX 427

NARELLAN NSW, AUSTRALIA 2567

Telephone : ---

Project : COLLINS SPIRNG FARM

Order number : ---C-O-C number : ----

Sampler : MART RAMPE

Site : 2023.8

Quote number : EN/222

No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Customer Services ES

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 04-Aug-2023 16:57

Date Analysis Commenced : 07-Aug-2023

Issue Date : 08-Aug-2023 17:16



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

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 2 Work Order : ES2326171

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM

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)	Sample ID		COLLINS GW1	 	 	
	Sampling date / time			04-Aug-2023 10:00	 	
Compound	CAS Number	LOR	Unit	ES2326171-001	 	
				Result	 	
EA005P: pH by PC Titrator						
pH Value		0.01	pH Unit	6.91	 	
EA010P: Conductivity by PC Titrator						
Electrical Conductivity @ 25°C		1	μS/cm	190	 	



Dust Deposition Results

MS	Period -	TIM (g	/m2/mc	onth)	Notes	Controls Implemented
Jan-18						
Mac-18						
Apr-18 6.7 1.1 2.6 MS-1 sample polluted - bird droppings? Jun-18 0.5 0.5 1.4.1 MS-1 sample highly polluted - anomalous result Jun-18 0.6 0.5 0.8 1.7 Aug 18 0.6 0.9 0.7 Sep-18 1.0 0.8 1.5 Oct-18 0.7 1.2 1.4 Nov-18 0.5 1.0 1.8 Dec 18 2.4 7.7 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 No significant activities noted Mar-19 2.0 3.3 1.6 No significant activities noted May-19 0.1 3.1 1.4 Fresh road works around Stations 2 and 3 Jun-19 0.1 3.1 1.4 Fresh road works around Stations 2 and 3 Jun-19 0.1 3.1 1.4 Inc. Sep-19 1.0 0.8 1.4 Inc.	Feb-18				Very hot and dry month	
May-18 0.4	Mar-18	0.6	0.7	7.2	Very hot and dry month and at times windy	
Jun-19	Apr-18	6.7	1.1		MS-1 sample polluted - bird droppings?	
Jul-18	May-18			2.5		
Aug. 18 0.6 0.9 0.7 Sop. 18 1.0 0.8 1.5 Oct. 18 0.7 1.2 1.4 Nov. 18 0.5 1.0 1.8 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 1.6 Nov. 19 2.6 4.3 1.6 Nov. 19 2.6 4.3 1.6 Nov. 19 2.0 4.3 1.6 Nov. 19 2.0 1.2 1.2 1.0 1.					MS-1 sample highly polluted - anomalous result	
Sep-18 1.0						
Det 18	Ŭ					
Nov. 18						
Dec.18 2.4 0.7 2.0						
In-19	-					
Feb. 19					Very hot and dry month and at times windy	
Mar-19 2.0					very not and ary month and at times wmay	
Apr-120					No significant activities noted	
May-19 0.5 1.9 1.4 Fresh road works around Stations 2 and 3						
Jun-19	_	0.5	1.9	1.4	Fresh road works around Stations 2 and 3	
Aug		0.7	1.3	1.1		
Sep-19	Jul-19 (0.2	0.4	0.6		
Oct 1.5						
Nov-19						
Jan-20						
Feb-20 6.3 6.5 6.0 Month of high winds, bushfire smoke and drought conditions Mar-20 0.9 1.1 1.2 Earthmoving activities near Station 2 contribute to exceedance Apr-20 0.9 1.2 0.8 Jun-20 0.8 0.8 Jul-20 0.8 0.8 Jul-20 0.8 0.4 Aug-20 0.6 2.4 1.1 Earthmoving activities near Station 2 contribute to exceedance Oct-20 1.6 28.3 1.6 Earthmoving activities near Station 2 contribute to exceedance Nov-20 1.0.4 22.4 2.2 Earthmoving activities near Station 2 contribute to exceedance Jan-21 0.8 6.7 3.4 Earthmoving activities near Station 2 contribute to exceedance Mar-21 1.8 6.7 1.3 Station 2 moved east to other side of drainage line Mar-21 0.8 0.9 1.2 Aug-21 0.8 0.9 1.2 Map-21 0.8 0.9 1.2 Aug-21<					Month of high winds and smoke from bushfires	
Mar-20						1
Apr-20						
May-20					Earthmoving activities near Station 2 contribute to ex	ceedance
Jun-20						
Jul-20	, ,					
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Sep-20 0.8 7.7 0.9 Earthmoving activities near Station 2 contribute to exceedance Oct-20 1.6 28.3 1.6 Earthmoving activities near Station 2 contribute to exceedance Nov-20 10.4 22.4 2.2 Earthmoving activities near Station 2 contribute to exceedance Dec-20 0.8 6.7 3.4 Earthmoving activities near Station 2 contribute to exceedance Jan-21 0.3 4.7 0.8 Earthmoving activities near Station 2 contribute to exceedance Jan-21 0.3 4.7 0.8 Earthmoving activities near Station 2 contribute to exceedance Jan-21 0.3 4.7 0.8 Earthmoving activities near Station 2 contribute to exceedance Jan-21 0.8 0.9 1.2 Earthmoving activities near Station 2 contribute to exceedance Jan-21 0.8 0.9 1.2 Page 2.1 Page 2.1 Page 2.2 Page 2.3 Pag						
Oct-20 1.6 28.3 1.6 Earthmoving activities near Station 2 contribute to exceedance Nov-20 10.4 22.4 2.2 Earthmoving activities near Station 2 contribute to exceedance Dec-20 0.8 6.7 3.4 Earthmoving activities near Station 2 contribute to exceedance Jan-21 0.3 4.7 0.8 9 Feb-21 1.8 6.7 1.3 Station 2 moved east to other side of drainage line Mar-21 0.8 0.9 1.2 Apr-21 0.1 3.1 0.7 May-21 0.8 0.9 1.2 Apr-21 0.1 3.1 0.7 May-21 0.8 0.8 2.3 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	Ŭ				Earthmoving activities near Station 2 contribute to ex	ceedance
Nov-20		1.6	28.3	1.6		
Jan-21	Nov-20	10.4	22.4	2.2		
Feb-21 1.8 6.7 1.3 Station 2 moved east to other side of drainage line Mar-21 0.8 0.9 1.2 Apr-21 0.1 3.1 0.7 May-21 0.8 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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event May-22 0 3.7 0.6 Station 1 lost due to flooding event Jun-22 0.7 7.4 1.7 Jul-22 0.2 0.6 6. Aug-22 0 5.3 0.1 Station 1 lost due to flooding event Sep-22 0.7	Dec-20	0.8		3.4	Earthmoving activities near Station 2 contribute to ex	ceedance
Mar-21 0.8 0.9 1.2 Apr-21 0.1 3.1 0.7 May-21 0.8 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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event May-22 0 3.7 0.6 Station 1 lost due to flooding event Jun-22 0.7 10.00 1.1 Jun-22 0.7 7.4 1.7 Jun-22 0.7 7.4 1.7 Oct-22 0.8 3.6 1.0 Nov-22 0.8 3.6 1.0 Nov-22 2.8 5.4						
Apr-21 0.1 3.1 0.7 May-21 0.8 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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Apr-22 0 3.7 0.6 Station 1 lost due to flooding event Jun-22 0.7 10.00 1.1 Jun-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 0.7 Oct-22 0.8 3.6 1.0 0.0 Nov-22 0.8 5.1					Staion 2 moved east to other side of drainage line	
May-21 0.8 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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Apr-22 0 3.7 0.6 Station 1 lost due to flooding event Jun-22 0.7 10.00 1.1 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						
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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Apr-22 0 2.2 0.7 Station 1 lost due to flooding event Jun-22 0.7 10.00 1.1 Jun-22 0.7 10.00 1.1 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 0.7 Oct-22 0.8 3.6 1.0 1.0 Nov-22 0.8 5.1 1.6 1.6 Dec-22 2.8 5.4 1.7 1.7 Jan-23 0.1 0.4 0.5 1.7 Jan-23 0.1 0.4 0.5 1.7<						
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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Apr-22 0 2.2 0.7 Station 1 lost due to flooding event May-22 0 3.7 0.6 Station 1 lost due to flooding event Jul-22 0.7 1.0 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 1.7 Oct-22 0.8 3.6 1.0 1.0 Nov-22 0.8 5.1 1.6 1.6 Dec-22 2.8 5.4 1.7 1.7 Jan-23 0.1 0.4						
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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Apr-22 0 2.2 0.7 Station 1 lost due to flooding event May-22 0 3.7 0.6 Station 1 lost due to flooding event Jul-22 0.7 10.00 1.1 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 0.7 Oct-22 0.8 3.6 1.0 0.0 Nov-22 0.8 5.1 1.6 0.6 Dec-22 2.8 5.4 1.7 0.7 Jan-23 0.1 0.4 0.5						
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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Apr-22 0 2.2 0.7 Station 1 lost due to flooding event Jun-22 0.7 10.00 1.1 1.1 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						
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 Lesson Feb-22 0.6 7.00 0.6 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Station 1 lost due to flooding event May-22 0 3.7 0.6 Station 1 lost due to flooding event Jun-22 0.7 10.00 1.1 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 Nov-23 0.8 0.3 0.7 Nov-24 0.9 0						
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 Mar-22 0 2.2 0.7 Station 1 lost due to flooding event Apr-22 0 3.7 0.6 Station 1 lost due to flooding event Jun-22 0.7 10.00 1.1 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						
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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					Station 1 lost due to flooding event	
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						
Dec-22 2.8 5.4 1.7 Jan-23 0.1 0.4 0.5 Feb-23 0.8 0.3 0.7						
Jan-23 0.1 0.4 0.5 ` ` Feb-23 0.8 0.3 0.7						<u> </u>
Feb-23 0.8 0.3 0.7						`
<u>, </u>						
Apr-23 1.3 0.3 0.7						
May-23 0.5 0.6		0.5	0.5			
Jun-23 0.4 2.7 0.5	Jun-23	0.4	2.7	0.5		
Jul-23 2.0 2.4 0.2		2.0	2.4			
Aug-23 0.3 4.4 1.5 Significant earthworks around Station 2	Aug-23	0.3	4.4	1.5	Significant earthworks around Station 2	



CERTIFICATE OF ANALYSIS

Work Order : EN2307906

Client : HARVEST SCIENTIFIC SERVICES

Contact : MART RAMPE

Address : PO BOX 427

NARELLAN NSW, AUSTRALIA 2567

Telephone : ---

Project : COLLINS SPRING FARM

Order number : 2023-8

C-O-C number : ----

Sampler : MART RAMPE

Site : ----

Quote number : EN/222

No. of samples received : 3
No. of samples analysed : 3

Page : 1 of 2

Laboratory : Environmental Division Newcastle

Contact :

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 07-Aug-2023 17:00

Date Analysis Commenced : 14-Aug-2023

Issue Date : 17-Aug-2023 17:55



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

Shane Merrell Laboratory Technician Newcastle - Inorganics, Mayfield West, NSW

Page : 2 of 2 Work Order : EN2307906

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPRING FARM

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.
- 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.
- 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	COLLINS 2	COLLINS 3		
(Matrix, AIR)				05/07/23 - 04/08/23	05/07/23 - 04/08/23	05/07/23 - 04/08/23		
		Sampli	ng date / time	04-Aug-2023 10:00	04-Aug-2023 10:00	04-Aug-2023 10:00		
Compound	CAS Number	LOR	Unit	EN2307906-001	EN2307906-002	EN2307906-003		
				Result	Result	Result		
EA120: Ash Content								
Ash Content		0.1	g/m².month		1.5			
Ash Content (mg)		2	mg		26			
EA141: Total Insoluble Matter								
Total Insoluble Matter		0.1	g/m².month	0.3	4.4	0.2		
Total Insoluble Matter (mg)		2	mg	6	77	4		







Client

QUALITY CONTROL REPORT

Work Order : ES2326171

: HARVEST SCIENTIFIC SERVICES

Contact : MART RAMPE
Address : PO BOX 427

NARELLAN NSW. AUSTRALIA 2567

Telephone : ---

Project : COLLINS SPIRNG FARM

Order number : ----

C-O-C number ; --

Sampler : MART RAMPE

Site : 2023.8 Quote number : EN/222

No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 3

Laboratory : Environmental Division Sydney

Contact : Customer Services ES

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 04-Aug-2023

Date Analysis Commenced : 07-Aug-2023

Issue Date : 08-Aug-2023



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 Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : ES2326171

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



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%.

Sub-Matrix: WATER			Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)	
EA005P: pH by PC Ti	trator (QC Lot: 5218877)									
ES2326175-001	Anonymous	EA005-P: pH Value		0.01	pH Unit	7.24	7.08	2.2	0% - 20%	
ES2325875-001	Anonymous	EA005-P: pH Value		0.01	pH Unit	7.32	7.36	0.5	0% - 20%	
EA010P: Conductivity	y by PC Titrator (QC Lot: 52	:18876)								
ES2326309-001	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	793	802	1.1	0% - 20%	
ES2326175-001	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	3550	3530	0.5	0% - 20%	
ES2325875-001	Anonymous	EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	290	291	0.6	0% - 20%	

Page : 3 of 3 Work Order : ES2326171

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



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.

Sub-Matrix: WATER				Method Blank (MB)	Laboratory Control Spike (LCS) Report				
				Report	Spike	Spike Recovery (%)	Acceptable Limits (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EA005P: pH by PC Titrator (QCLot: 5218877)									
EA005-P: pH Value			pH Unit		4 pH Unit	99.8	98.8	101	
					7 pH Unit	99.8	99.2	101	
EA010P: Conductivity by PC Titrator (QCLot: 5218876)									
EA010-P: Electrical Conductivity @ 25°C		1	μS/cm	<1	220 μS/cm	100	89.9	110	
				<1	2100 μS/cm	98.9	90.2	111	

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 : **ES2326171** Page : 1 of 4

Client : HARVEST SCIENTIFIC SERVICES Laboratory : Environmental Division Sydney

 Contact
 : MART RAMPE
 Telephone
 : +61-2-8784 8555

 Project
 : COLLINS SPIRNG FARM
 Date Samples Received
 : 04-Aug-2023

 Site
 : 2023.8
 Issue Date
 : 08-Aug-2023

Sampler : MART RAMPE No. of samples received : 1
Order number : ---- 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.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- NO Matrix Spike outliers occur.
- For all regular sample matrices, NO 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

• NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4 Work Order : ES2326171

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



Matrix: WATER

Matrix. WATER						
Method	Ex	traction / Preparation		Analysis		
Container / Client Sample ID(s)	Date extracted			Date analysed	Due for analysis	Days
			overdue			overdue
EA005P: pH by PC Titrator						
Opaque Plastic Bottle - Unpreserved						
COLLINS GW1				08-Aug-2023	04-Aug-2023	4

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.

Matrix: WATER

Evaluation: **x** = Holding time breach : ✓ = Within 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	
EA005P: pH by PC Titrator								
Opaque Plastic Bottle - Unpreserved (EA005-P) COLLINS GW1	04-Aug-2023				08-Aug-2023	04-Aug-2023	×	
EA010P: Conductivity by PC Titrator								
Opaque Plastic Bottle - Unpreserved (EA010-P) COLLINS GW1	04-Aug-2023				08-Aug-2023	01-Sep-2023	√	

Page : 3 of 4
Work Order : ES2326171

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



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: x = Quality Control frequency not within specification; y = Quality Control frequency within specification.

Madrix. WATER		Evaluation: — Quality Control frequency flot Within Specification; — Quality Control frequency Within Specification.						
Quality Control Sample Type		Count		Rate (%)			Quality Control Specification	
Analytical Methods	Method	QC	Reaular	Actual	ual Expected Evaluation			
Laboratory Duplicates (DUP)								
Conductivity by Auto Titrator	EA010-P	3	25	12.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
pH by Auto Titrator	EA005-P	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
Conductivity by Auto Titrator	EA010-P	3	25	12.00	8.33	✓	NEPM 2013 B3 & ALS QC Standard	
pH by Auto Titrator	EA005-P	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
Conductivity by Auto Titrator	EA010-P	1	25	4.00	1.67	✓	NEPM 2013 B3 & ALS QC Standard	

Page : 4 of 4 Work Order : ES2326171

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPIRNG FARM



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 : **EN2307906**

Client : HARVEST SCIENTIFIC SERVICES

Contact : MART RAMPE

Address : PO BOX 427

NARELLAN NSW, AUSTRALIA 2567

Telephone : ----

Project : COLLINS SPRING FARM

Order number : 2023-8

C-O-C number :

Sampler : MART RAMPE

Site : ----

Quote number : EN/222

No. of samples received : 3
No. of samples analysed : 3

Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 07-Aug-2023

Date Analysis Commenced : 14-Aug-2023

Issue Date : 17-Aug-2023



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 Position Accreditation Category

Shane Merrell Laboratory Technician Newcastle - Inorganics, Mayfield West, NSW

Page : 2 of 3 Work Order : EN2307906

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPRING FARM

(ALS)

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.

Page : 3 of 3 Work Order : EN2307906

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPRING FARM



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 : **EN2307906** Page : 1 of 4

Client : HARVEST SCIENTIFIC SERVICES Laboratory : Environmental Division Newcastle

 Contact
 : MART RAMPE
 Telephone
 : +61 2 4014 2500

 Project
 : COLLINS SPRING FARM
 Date Samples Received
 : 07-Aug-2023

 Site
 : --- Issue Date
 : 17-Aug-2023

Sampler : MART RAMPE No. of samples received : 3
Order number : 2023-8 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.

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

Outliers: Analysis Holding Time Compliance

NO Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

• NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4
Work Order : EN2307906

Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPRING FARM



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.

Matrix: AIR

Evaluation: * = Holding time breach: \checkmark = Within holding time.

Wattik. Alix					Lvaluation	. • - Holding time	breach, • - with	ir noluling time
Method			Extraction / 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 - 05/07/23 - 04/08/23		04-Aug-2023				17-Aug-2023	03-Sep-2023	√
EA141: Total Insoluble Matter								
Dust Gauge (Bottle) - Copper Sulfate (EA141) COLLINS 1 - 05/07/23 - 04/08/23,	COLLINS 2 - 05/07/23 - 04/08/23,	04-Aug-2023				14-Aug-2023	03-Sep-2023	✓
COLLINS 3 - 05/07/23 - 04/08/23								

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Quality Control Parameter Frequency Compliance

No Quality Control data available for this section.

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Client : HARVEST SCIENTIFIC SERVICES

Project : COLLINS SPRING FARM

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.

