ALS Water

CERTIFICATE OF ANALYSIS

Work Order	: **CA2006412**	Page	: 1 of 4
Client	: **Harvey Fresh Juice Pty Ltd**	Laboratory	: ALS Water Resources Group
Contact	: Ms Kay Kandeepan	Contact	: Client Services
Address	: Farm 1059 Crawford Rd Hanwood NSW 2680	Address	: 16B Lithgow Street Fyshwick ACT Australia 2609
Telephone	: 02 6968 5600	Telephone	: +61 2 6202 5404
Project	: EPA Samples	Date Samples Received	: 25-Sep-2020 13:00
Order number	: 45936401	Date Analysis Commenced	: 25-Sep-2020
C-O-C number	: ----	Issue Date	: 07-Oct-2020 15:15
Sampler	: Kay Kandeepan		
Site	: EPA Samples		
Quote number	: ----		
No. of samples received	: 7		
No. of samples analysed	: 7		

Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. 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*
Amanda Gonzalez	Laboratory Technician	Inorganics, Fyshwick, ACT
Geetha Ramasundara	Chemistry Teamleader	Inorganics, Fyshwick, ACT
Titus Vimalasiri	Metals Teamleader	Inorganics, Fyshwick, ACT

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.

- **Samples received outside of 24hr recommended holding time. Samples were tested as received, results for microbiological and nutrients (total nitrogen, total phosporous) analysis may be indicative only.**
- **For samples collected by ALS WRG, sampling was carried out in accordance with Procedure EN67**
- Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	EPA 1	EPA 3 3830mm	EPA 4 4410mm	EPA 5 4315mm	Filter H20
				Client sampling date / time	24-Sep-2020 10:00	24-Sep-2020 10:00	24-Sep-2020 10:00	24-Sep-2020 10:00	24-Sep-2020 10:00
Compound	CAS Number	LOR	Unit		CA2006412-001	CA2006412-002	CA2006412-003	CA2006412-004	CA2006412-005
					Result	Result	Result	Result	Result
EA005CA: pH									
pH	----	0.01	pH Unit		7.68	7.35	8.08	7.93	8.14
EA010CA: Conductivity									
Electrical Conductivity @ 25°C	----	2	µS/cm		1920	13600	3960	10500	426
EA025CA: Suspended Solids									
Suspended Solids (SS)	----	2	mg/L		193	86	257	61	<2
EP030CA: Biochemical Oxygen Demand									
Biochemical Oxygen Demand	----	2	mg/L		102	<2	2	<2	<2
EK055CA: Ammonia as N									
Ammonia as N	7664-41-7	0.1	mg/L N		<0.1	0.2	<0.1	0.2	<0.1
EK057CA: Nitrite as N									
Nitrite as N	14797-65-0	0.01	mg/L N		<0.01	<0.01	<0.01	<0.01	<0.01
EK058CA: Nitrate as N									
ø Nitrate as N	14797-55-8	0.01	mg/L N		<0.05	0.09	0.20	0.05	<0.05
EK059CA: Nitrite plus Nitrate as N									
Nitrite + Nitrate as N	----	0.05	mg/L N		<0.05	0.09	0.20	0.05	<0.05
EK061CA: Total Kjeldahl Nitrogen as N									
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N		20.0	0.90	0.83	0.90	0.24
EK062CA: Total Nitrogen as N									
Total Nitrogen as N	----	0.05	mg/L N		20.0	0.99	1.03	0.95	0.24
EK067CA: Total Phosphorus as P									
Total Phosphorus as P	----	0.01	mg/L P		4.51	0.12	0.85	0.12	<0.01
EG005CA: Total Metals by ICP-OES									
Potassium	7440-09-7	0.1	mg/L		36.9	10.3	11.5	11.8	2.6
Sodium	7440-23-5	0.1	mg/L		349	2570	662	2200	48.8

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Bore	RO	----	----	----
				Client sampling date / time	24-Sep-2020 10:00	24-Sep-2020 10:00	----	----	----
Compound	CAS Number	LOR	Unit		CA2006412-006	CA2006412-007	--------	--------	--------
					Result	Result	----	----	----
EA005CA: pH									
pH	----	0.01	pH Unit		**7.95**	**7.98**	----	----	----
EA010CA: Conductivity									
Electrical Conductivity @ 25°C	----	2	µS/cm		**1790**	**39**	----	----	----
EA025CA: Suspended Solids									
Suspended Solids (SS)	----	2	mg/L		**7**	<2	----	----	----
EP030CA: Biochemical Oxygen Demand									
Biochemical Oxygen Demand	----	2	mg/L		<2	<2	----	----	----
EK055CA: Ammonia as N									
Ammonia as N	7664-41-7	0.1	mg/L N		<0.1	<0.1	----	----	----
EK057CA: Nitrite as N									
Nitrite as N	14797-65-0	0.01	mg/L N		<0.01	<0.01	----	----	----
EK058CA: Nitrate as N									
ø **Nitrate as N**	14797-55-8	0.01	mg/L N		<0.05	<0.05	----	----	----
EK059CA: Nitrite plus Nitrate as N									
Nitrite + Nitrate as N	----	0.05	mg/L N		<0.05	<0.05	----	----	----
EK061CA: Total Kjeldahl Nitrogen as N									
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N		<0.05	<0.05	----	----	----
EK062CA: Total Nitrogen as N									
Total Nitrogen as N	----	0.05	mg/L N		<0.05	<0.05	----	----	----
EK067CA: Total Phosphorus as P									
Total Phosphorus as P	----	0.01	mg/L P		**0.03**	<0.01	----	----	----
EG005CA: Total Metals by ICP-OES									
Potassium	7440-09-7	0.1	mg/L		**7.5**	<0.1	----	----	----
Sodium	7440-23-5	0.1	mg/L		**300**	**2.8**	----	----	----