

Air Quality

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM1

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/3/2023	Sibata LD-5R	942532	0.00108	Fine	12:45	13:45	14:45	54	50	53	52	285	500
8/3/2023	Sibata LD-5R	942532	0.00108	Fine	15:11	16:11	17:11	22	24	24	23		
14/3/2023	Sibata LD-5R	882106	0.00107	Fine	8:30	9:30	10:30	44	40	43	42		
20/3/2023	Sibata LD-5R	942532	0.00108	Cloudy	9:40	10:40	11:40	65	67	64	65		
25/3/2023	Sibata LD-5R	942532	0.00108	Drizzle	11:10	12:10	13:10	51	60	53	55		
31/3/2023	Sibata LD-5R	942532	0.00108	Cloudy	12:06	13:06	14:06	31	36	32	33		
Average								45					
Max.								67					
Min.								22					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM2

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/3/2023	Sibata LD-5R	882106	0.00107	Fine	12:24	13:24	14:24	61	60	62	61	279	500
8/3/2023	Sibata LD-5R	882106	0.00107	Fine	15:15	16:15	17:15	32	33	31	32		
14/3/2023	Sibata LD-5R	942532	0.00108	Fine	8:12	9:12	10:12	56	57	55	56		
20/3/2023	Sibata LD-5R	882106	0.00107	Cloudy	9:56	10:56	11:56	65	64	62	64		
25/3/2023	Sibata LD-5R	882106	0.00107	Drizzle	11:35	12:35	13:35	41	44	42	42		
31/3/2023	Sibata LD-5R	882106	0.00107	Cloudy	11:10	12:10	13:10	41	43	39	41		
Average								49					
Max.								65					
Min.								31					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM3

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/3/2023	Sibata LD-5R	0Z4545	0.00114	Fine	9:42	10:42	11:42	63	60	65	63	285	500
8/3/2023	Sibata LD-5R	0Z4545	0.00114	Fine	15:09	16:09	17:09	30	34	32	32		
14/3/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:09	9:09	10:09	44	40	39	41		
20/3/2023	Sibata LD-5R	0Z4545	0.00114	Cloudy	9:16	10:16	11:16	64	68	65	66		
25/3/2023	Sibata LD-5R	0Z4545	0.00114	Drizzle	10:40	11:40	12:40	61	64	60	62		
31/3/2023	Sibata LD-5R	0Z4545	0.00114	Cloudy	11:56	12:56	13:56	20	22	15	19		
Average								47					
Max.								68					
Min.								15					

The Summary of TSP 24-hour Concentration (µg/m³) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
1/3/2023	Fine	19.2	1022.7	613.93	637.93	1440	44.5	0.81	1170	2.7614	3.0313	0.2699	231	164	260
2/3/2023	Fine	19.0	1024.4	637.93	661.93	1440	43	0.76	1097	2.6476	3.1852	0.5376	490		
3/3/2023	Fine	20.3	1024.7	662.00	686.00	1440	44	0.79	1144	2.6834	2.9537	0.2703	236		
4/3/2023	Fine	19.7	1024.0	686.00	710.00	1440	44	0.80	1145	2.6518	3.0042	0.3524	308		
8/3/2023	Fine	22.1	1018.7	783.24	807.24	1440	40	1.16	1673	2.6635	2.9202	0.2567	153		
14/3/2023	Fine	21.7	1020.0	855.24	879.24	1440	35	1.00	1435	2.6692	2.7849	0.1157	81		
20/3/2023	Cloudy	22.8	1010.6	879.31	903.31	1440	40	1.15	1655	2.6857	2.8011	0.1154	70		
25/3/2023	Drizzle	22.3	1013.6	903.31	927.31	1440	39.5	1.14	1638	2.6769	2.7650	0.0881	54		
31/3/2023	Cloudy	20.6	1013.1	927.31	951.31	1440	40	1.16	1667	2.6431	2.6935	0.0504	30		
												Average	184		
												Min	30		
												Max	490		

The Summary of 24-hour TSP Concentration (µg/m³) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
4/3/2023	Fine	19.7	1024.0	555.85	579.85	1440	44	0.78	1127	2.6633	2.8345	0.1712	152	152	260
8/3/2023	Fine	22.1	1018.7	580.26	604.26	1440	42.5	1.07	1535	2.6608	2.7951	0.1343	88		
14/3/2023	Fine	21.7	1020.0	628.26	652.26	1440	40	0.99	1420	2.6787	2.7963	0.1176	83		
20/3/2023	Cloudy	22.8	1010.6	652.40	676.40	1440	41	1.00	1446	2.6714	2.8003	0.1289	89		
25/3/2023	Drizzle	22.3	1013.6	676.40	700.40	1440	40	0.98	1406	2.6642	2.7050	0.0408	29		
31/3/2023	Cloudy	20.6	1013.1	927.31	951.31	1440	40	1.16	1667	2.6431	2.6935	0.0504	30		
												Average	78		
												Min	29		
												Max	152		

The Summary of 24-hour TSP Concentration (µg/m³) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
1/3/2023	Fine	19.2	1022.7	1393.39	1417.39	1440	43	0.59	848	2.6288	2.8637	0.2349	277	163	260
2/3/2023	Fine	19.0	1024.4	1417.40	1441.40	1440	44	0.62	896	2.6737	2.9758	0.3021	337		
3/3/2023	Fine	20.3	1024.7	1441.46	1465.46	1440	44.5	0.63	914	2.6792	2.8955	0.2163	237		
4/3/2023	Fine	19.7	1024.0	1465.49	1489.49	1440	44.5	0.64	915	2.6628	2.8353	0.1725	189		
8/3/2023	Fine	22.1	1018.7	1561.78	1585.78	1440	40	1.20	1735	2.6563	2.9912	0.3349	193		
13/3/2023	Fine	20.4	1020.8	1609.78	1633.78	1440	40.5	1.23	1766	2.6697	2.9297	0.2600	147		
14/3/2023	Fine	21.7	1020.2	1633.78	1657.78	1440	37.5	1.13	1628	2.6735	2.8379	0.1644	101		
20/3/2023	Cloudy	22.8	1010.6	1657.97	1681.97	1440	41	1.22	1763	2.6706	2.7942	0.1236	70		
25/3/2023	Drizzle	22.3	1013.6	1681.97	1705.97	1440	40.5	1.21	1747	2.6889	2.7494	0.0605	35		
31/3/2023	Cloudy	20.6	1013.1	1705.97	1729.97	1440	39.5	1.19	1708	2.6486	2.7076	0.0590	35		
												Average	162		
												Min	35		
												Max	337		

Remarks:

1. Orange Text equal to exceed Action Level
2. Red Text equal to exceed Limit Level
3. Blue Highlight equal to additional monitoring

Noise

Impact Phase Construction Noise Monitoring Data at Location NM1a

Date	Weather	Wind speed m/s	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))					
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
2/3/2023	Fine	1.2	9:17	9:47	53.1	51.5	53.5	53.5	54.7	54.2	53.5	53.8	53.8	56.1	56	56.6	55.9	47.3	46.2	49.2	48.1	50.3	51.3
8/3/2023	Fine	1.4	16:44	17:14	57.6	59	56.9	57.7	60.2	59.8	58.7	60.2	61.9	58.5	59.1	62.8	63	53.7	54.3	54.3	54.3	54.3	54.6
14/3/2023	Fine	2.1	8:40	9:10	54.9	53.4	54.2	54.6	55.1	54.3	54.5	55.8	54.6	55.8	56.3	57.6	56.3	47.2	47.1	47.6	46.2	48.2	49.2
20/3/2023	Cloudy	1.9	9:13	9:43	50	56.3	53.7	51.5	51.8	52.1	53.1	52.5	59.1	56.8	54	55.2	54.2	54.2	48.6	46.4	47.3	45.6	46.1
31/3/2023	Cloudy	2.7	14:20	14:50	60.9	61.2	62.6	63.3	62.5	63	62.3	62.3	63.2	64.2	65.1	64.4	64.6	52.5	53.6	53.7	54.2	54.1	53.2
Average											58.0												
Baseline Level											55.4												
Action Level											When one valid documented complaint is received												
Limit Level											75												

Impact Phase Construction Noise Monitoring Data at Location NM2a

Date	Weather	Wind speed m/s	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))					
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
2/3/2023	Fine	1.7	14:39	15:09	44.6	38.6	44.5	41.6	39.9	41.6	42.3	47.4	40.3	43.7	44	42.7	44.5	35.9	34.7	35.5	35.4	35.1	34.7
8/3/2023	Fine	1.5	15:20	15:50	51.2	51.5	51.7	52.3	50.9	52.3	51.7	54.6	55.2	54.8	55.9	54	56	38.2	40.5	40.7	41.8	39.1	39.9
14/3/2023	Fine	1.7	16:44	17:14	47.4	46.2	43.7	45.5	44.6	45.4	45.6	48.4	48.9	46.8	48.8	48.3	48.7	35.9	36.1	35.9	35.8	35.8	35.4
20/3/2023	Cloudy	2.1	13:01	13:31	60.8	62.2	61.6	60.7	62.3	64.1	62.1	63.8	65.2	65.2	64.1	66.1	68	53.9	55.2	53.5	52.5	53.5	54.4
31/3/2023	Cloudy	1.7	10:28	10:58	59.5	58.4	59.6	58.2	58.9	58.2	58.8	63.3	62.5	62.9	61.6	62.4	61.4	51.8	51.6	51.2	52.1	52.6	51.6
Average											57.1												
Baseline Level											54.5												
Action Level											When one valid documented complaint is received												
Limit Level											75												

Water Quality

Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
2-Mar-23	16:57	Fine	0.04	0	18.5	7.5	<7.4	<4	7.1	>7.7	>7.8	6.3	>9.2	>9.5	2.1	>9.7	>11.4

Monitoring Location: WM2

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
2-Mar-23	8:42	Fine	0.10	0	23.4	7.9	<5	<4	7.0	>7.6	>7.7	13.7	>108.3	>108.9	12.0	>94.5	>94.7

Remarks

1. Sample will be grabbed on surface when the water depth is less than 1m.
2. "TBC" equal to "To be confirm"






CERTIFICATE OF ANALYSIS

Client	: ACUMEN LABORATORY AND TESTING LIMITED	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: MR HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2308312
Address	: UNIT D, 12/F, FORD GLORY PLAZA, NOS.37-39 WING HONG STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: hthui@acumen-env.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: +852 2333 6823	Telephone	: +852 2610 1044		
Facsimile	: +852 2333 1316	Facsimile	: +852 2610 2021		
Project	: NENTX			Date Samples Received	: 03-Mar-2023
Order number	: ---	Quote number	: HKE/2751/2022_V2	Issue Date	: 16-Mar-2023
C-O-C number	: ---			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

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This document has been signed by those names that appear on this report and are the authorised signatories.

<i>Signatories</i>	<i>Position</i>	<i>Authorised results for</i>
 Fung Lim Chee, Richard	Managing Director	Inorganics
 Fung Lim Chee, Richard	Managing Director	Metals_ENV
 Ng Sin Kou, May	Laboratory Manager	Microbiology_ENV



General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. 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.

Testing period is from 03-Mar-2023 to 14-Mar-2023.

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

Specific Comments for Work Order: HK2308312

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Microbiological sample(s) was/ were collected in 250mL sterile plastic bottles containing sodium thiosulfate. Sample(s) arrived at the laboratory at 09:00.

NOT DETECTED denotes result(s) is (are) less than the Limit of Report (LOR).

ED037 - Titration end point for Total Alkalinity is pH 4.5 while end point for Total Alkalinity <20mg/L is pH 4.2.

Water sample(s) digested by in-house method E-3005 prior to the determination of total metals. The in-house method is developed based on USEPA method 3005.

EA002 - pH value is reported as at 25°C. Calibration range of pH value is 4.0 - 10.0. Results exceeding this range is for reference only.

EA025 - The accredited LOR of Total Suspended Solids is 0.5mg/L. Results below this LOR are for reference only.



Analytical Results

Sub-Matrix: WATER

				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	02-Mar-2023	02-Mar-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2308312-001	HK2308312-002	-----	-----	-----
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	----	0.1	pH Unit		6.5	6.5	---	---	---
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm		63	102	---	---	---
EA025: Suspended Solids (SS)	----	0.1	mg/L		2.1	12.0	---	---	---
ED037: Total Alkalinity as CaCO3	----	1	mg/L		14	36	---	---	---
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		7	5	---	---	---
ED045K: Chloride	16887-00-6	0.5	mg/L		6	6	---	---	---
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.06	0.33	---	---	---
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.01	0.05	---	---	---
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.3	0.5	---	---	---
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.02	<0.01	---	---	---
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L		<2	<2	---	---	---
EP: Aggregate Organics									
EP005: Total Organic Carbon	----	1	mg/L		2	3	---	---	---
EP020: Oil & Grease	----	5	mg/L		<5	<5	---	---	---
EP026C: Chemical Oxygen Demand	----	5	mg/L		6	<5	---	---	---
EP030: Biochemical Oxygen Demand	----	2	mg/L		<2	<2	---	---	---
EG: Metals and Major Cations - Total									
EG020: Cadmium	7440-43-9	0.2	µg/L		<0.2	<0.2	---	---	---
EG020: Copper	7440-50-8	1	µg/L		<1	1	---	---	---
EG020: Lead	7439-92-1	1	µg/L		<1	<1	---	---	---
EG020: Manganese	7439-96-5	1	µg/L		106	3070	---	---	---
EG020: Nickel	7440-02-0	1	µg/L		<1	<1	---	---	---
EG020: Zinc	7440-66-6	10	µg/L		<10	20	---	---	---
EG032: Calcium	7440-70-2	50	µg/L		3280	7020	---	---	---
EG032: Iron	7439-89-6	10	µg/L		1310	10600	---	---	---
EG032: Magnesium	7439-95-4	50	µg/L		440	690	---	---	---
EG032: Potassium	7440-09-7	50	µg/L		400	1050	---	---	---
EG032: Sodium	7440-23-5	50	µg/L		7960	5810	---	---	---



Sub-Matrix: WATER				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	02-Mar-2023	02-Mar-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2308312-001	HK2308312-002	-----	-----	-----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		NOT DETECTED	NOT DETECTED	---	---	---
EM003: Total Coliforms	----	1	CFU/100mL		NOT DETECTED	14	---	---	---



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method/Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 4909150)								
HK2308291-002	Anonymous	EA002: pH Value	----	0.1	pH Unit	8.4	8.4	0.0
HK2308487-001	Anonymous	EA002: pH Value	----	0.1	pH Unit	10.4	10.4	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4909345)								
HK2308312-002	WM2	ED037: Total Alkalinity as CaCO3	----	1	mg/L	36	36	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4909346)								
HK2308312-001	WM1	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	63	63	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4913143)								
HK2308291-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.1	7.6	7.8
HK2308428-007	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	25.4	24.9	2.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4908210)								
HK2308126-002	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	8.14	8.16	0.2
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4909215)								
HK2308142-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	106	104	2.4
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4912076)								
HK2308586-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	20.8	19.7	5.5
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4913371)								
HK2308312-001	WM1	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	7	7	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4913372)								
HK2308312-001	WM1	ED045K: Chloride	16887-00-6	1	mg/L	6	6	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4915998)								
HK2308438-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
EP: Aggregate Organics (QC Lot: 4924670)								
HK2308479-006	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<1	<1	0.0
EP: Aggregate Organics (QC Lot: 4925157)								
HK2308586-003	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	12	12	0.0
EG: Metals and Major Cations - Total (QC Lot: 4910942)								
HK2308312-002	WM2	EG032: Iron	7439-89-6	10	µg/L	10600	10500	0.4
		EG032: Calcium	7440-70-2	50	µg/L	7020	7030	0.0
		EG032: Magnesium	7439-95-4	50	µg/L	690	690	0.0
		EG032: Potassium	7440-09-7	50	µg/L	1050	1060	0.0



Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Total (QC Lot: 4910942) - Continued								
HK2308312-002	WM2	EG032: Sodium	7440-23-5	50	µg/L	5810	5770	0.6
EG: Metals and Major Cations - Total (QC Lot: 4910943)								
HK2308312-002	WM2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	1	<1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Manganese	7439-96-5	1	µg/L	3070	3160	2.9
		EG020: Nickel	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	20	18	11.2

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 4909345)											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	102	----	95.0	105	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 4909346)											
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	146.9 µS/cm	102	----	93.5	106	----	----
				<1	1412 µS/cm	97.6	----	94.3	105	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 4913143)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	93.0	----	82.4	118	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4908210)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	99.4	----	92.4	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4909215)											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	106	----	89.0	120	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4912076)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	96.2	----	89.3	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4913371)											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	100	----	89.8	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4913372)											



Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)		
Method: Compound	CAS Number					LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4913372) - Continued												
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	100	---	88.2	108	---	---	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4915998)												
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	---	---	---	---	---	---	---	
EP: Aggregate Organics (QC Lot: 4909457)												
EP030: Biochemical Oxygen Demand	---	---	mg/L	---	198 mg/L	105	---	78.6	118	---	---	
EP: Aggregate Organics (QC Lot: 4924670)												
EP005: Total Organic Carbon	---	1	mg/L	<1	5 mg/L	108	---	78.1	123	---	---	
				<1	100 mg/L	112	---	79.9	119	---	---	
EP: Aggregate Organics (QC Lot: 4925157)												
EP026C: Chemical Oxygen Demand	---	---	mg/L	---	25 mg/L	98.4	---	92.0	108	---	---	
				---	250 mg/L	101	---	92.3	106	---	---	
EP: Aggregate Organics (QC Lot: 4925469)												
EP020: Oil & Grease	---	2	mg/L	<2	20 mg/L	95.2	---	84.2	110	---	---	
EG: Metals and Major Cations - Total (QC Lot: 4910942)												
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	98.6	---	85.0	115	---	---	
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	104	---	85.0	115	---	---	
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	105	---	85.0	115	---	---	
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	99.0	---	85.0	115	---	---	
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	99.2	---	85.0	115	---	---	
EG: Metals and Major Cations - Total (QC Lot: 4910943)												
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	98.1	---	85.0	109	---	---	
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	106	---	90.0	111	---	---	
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	98.7	---	89.0	111	---	---	
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	98.3	---	85.0	115	---	---	
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	102	---	87.0	110	---	---	
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	102	---	86.0	114	---	---	



Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER

					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4908210)										
HK2308126-002	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	50 mg/L	101	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4909215)										
HK2308142-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	50 mg/L	100	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4912076)										
HK2308586-001	Anonymous	EK055K: Ammonia as N	7664-41-7	50 mg/L	101	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4913371)										
HK2308312-001	WM1	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	82.8	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4913372)										
HK2308312-001	WM1	ED045K: Chloride	16887-00-6	5 mg/L	94.6	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 4924670)										
HK2308479-006	Anonymous	EP005: Total Organic Carbon	----	5 mg/L	109	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 4925157)										
HK2308586-003	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	86.0	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 4910942)										
HK2308312-001	WM1	EG032: Calcium	7440-70-2	2000 µg/L	98.1	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	104	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	104	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	100	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	103	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 4910943)										
HK2308312-001	WM1	EG020: Cadmium	7440-43-9	5 µg/L	100	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	104	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	99.2	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	94.6	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	100	----	75.0	125	----	----



Matrix: WATER

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 4910943) - Continued										
HK2308312-001	WM1	EG020: Zinc	7440-66-6	50 µg/L	98.7	----	75.0	125	----	----