

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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
1/2/2023	Sibata LD-5R	0Z4545	0.00114	Fine	14:30	15:30	16:30	32	41	35	36	285	500
7/2/2023	Sibata LD-5R	0Z4545	0.00114	Fine	14:50	15:50	16:50	22	23	20	22		
13/2/2023	Sibata LD-5R	0Z4545	0.00114	Fine	13:14	14:14	15:14	24	21	26	24		
18/2/2023	Sibata LD-5R	0Z4545	0.00114	Fine	9:00	10:00	11:00	18	21	19	19		
24/2/2023	Sibata LD-5R	942532	0.00108	Fine	13:00	14:00	15:00	32	33	36	34		
Average								27					
Max.								41					
Min.								18					

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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
1/2/2023	Sibata LD-5R	942532	0.00108	Fine	14:20	15:20	16:20	41	43	39	41	279	500
7/2/2023	Sibata LD-5R	882106	0.00107	Fine	14:10	15:10	16:10	20	22	21	21		
13/2/2023	Sibata LD-5R	882106	0.00107	Fine	14:00	15:00	16:00	24	23	22	23		
18/2/2023	Sibata LD-5R	942532	0.00108	Fine	9:15	10:15	11:15	22	21	23	22		
24/2/2023	Sibata LD-5R	882106	0.00107	Fine	13:30	14:30	15:30	32	36	33	34		
Average								28					
Max.								43					
Min.								20					

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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
1/2/2023	Sibata LD-5R	882106	0.00107	Fine	14:44	15:44	16:44	51	49	48	49	285	500
7/2/2023	Sibata LD-5R	942532	0.00108	Fine	14:26	15:26	16:26	22	25	23	23		
13/2/2023	Sibata LD-5R	942532	0.00108	Fine	10:15	11:15	12:15	21	25	22	23		
18/2/2023	Sibata LD-5R	882106	0.00107	Fine	9:30	10:30	11:30	23	28	21	24		
24/2/2023	Sibata LD-5R	0Z4545	0.00114	Fine	11:00	12:00	13:00	45	49	38	44		
Average								33					
Max.								51					
Min.								21					

The Summary of TSP 24-hour Concentration ($\mu\text{g}/\text{m}^3$) at Location AM1

Start Date	Avg Air Temp	Avg Atmospheric Pressure	Weather Condition	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume (m^3)	Filter Weight (g)		Particulate weight (g)	Concentration ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	($^{\circ}\text{C}$)	(hPa)		Initial	Final		(cfm)	(m^3/min)		Initial	Final				
1/2/2023	19.7	1016.9	Fine	469.91	493.91	1440	41	0.68	976	2.6766	2.8265	0.1499	154	164	260
7/2/2023	22.5	1016.3	Fine	517.91	541.91	1440	43	0.74	1067	2.6596	2.7256	0.0660	62		
13/2/2023	23.4	1016.3	Fine	541.91	565.91	1440	42.5	0.72	1038	2.6622	2.7522	0.0900	87		
18/2/2023	25.9	1017.9	Fine	565.91	589.91	1440	43.5	0.75	1083	2.6729	2.8326	0.1597	147		
24/2/2023	17.7	1021.7	Fine	589.91	613.91	1440	44	0.80	1148	2.7823	3.1107	0.3284	286		
												Average	145		
												Min	62		
												Max	286		

The Summary of 24-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM2

Start Date	Avg Air Temp	Avg Atmospheric Pressure	Weather Condition	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate (m^3/min)	Total Flow Volume (m^3)	Filter Weight (g)		Particulate weight (g)	Concentration ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	($^{\circ}\text{C}$)	(hPa)		Initial	Final		(cfm)			Initial	Final				
1/2/2023	19.7	1016.9	Fine	405.47	429.47	1440	42	0.72	1031	2.6825	2.7839	0.1014	98	152	260
7/2/2023	22.5	1016.3	Fine	429.47	453.47	1440	41.5	0.70	1001	2.6414	2.7072	0.0658	66		
13/2/2023	23.4	1016.3	Fine	453.47	477.47	1440	41	0.68	978	2.6705	2.7297	0.0592	61		
18/2/2023	25.9	1017.9	Fine	477.47	501.47	1440	43.5	0.75	1076	2.6689	2.7725	0.1036	96		
24/2/2023	17.7	1021.7	Fine	501.47	525.47	1440	38	0.61	879	2.7707	2.8811	0.1104	126		
												Average	89		
												Min	61		
												Max	126		

The Summary of 24-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM3

Start Date	Avg Air Temp	Avg Atmospheric Pressure	Weather Condition	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate (m^3/min)	Total Flow Volume (m^3)	Filter Weight (g)		Particulate weight (g)	Concentration ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	($^{\circ}\text{C}$)	(hPa)		Initial	Final		(cfm)			Initial	Final				
1/2/2023	19.7	1016.9	Fine	1246.11	1270.11	1440	45	0.64	923	2.6740	2.8211	0.1471	159	163	260
7/2/2023	22.5	1016.3	Fine	1297.12	1321.12	1440	47	0.69	999	2.6537	2.7643	0.1106	111		
13/2/2023	23.4	1016.3	Fine	1321.12	1345.12	1440	47.5	0.71	1017	2.6624	2.7573	0.0949	93		
18/2/2023	25.9	1017.9	Fine	1345.12	1369.12	1440	48	0.72	1034	2.6688	2.9322	0.2634	255		
24/2/2023	17.7	1021.7	Fine	1369.12	1393.12	1440	48	0.74	1070	2.6695	2.9738	0.3043	284		
												Average	181		
												Min	93		
												Max	284		

Remarks:

1. Orange Text equal to exceed Action Level
2. Red Text equal to exceed Limit Level

Noise

Impact Phase Construction Noise Monitoring Data at Location NM1

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
1/2/2023	Fine	1.9	17:09	17:39	58.5	52.5	53.2	54.1	54.9	52.8	54.9	58.7	54.2	55.2	57.3	56.6	54.5	51	50	50.6	50.8	51.3	50.1
7/2/2023	Fine	1.7	16:18	16:48	45.1	46.7	49.1	45.3	49.9	38.1	47.0	49.1	47.2	50.3	48.2	50.1	40.4	33.8	33.1	33.1	33	33	31.7
13/2/2023	Fine	0	10:26	10:56	53.1	53.4	53.4	52.5	53.6	53.6	53.3	55.9	55.9	56.1	55.1	55.8	56.1	47.9	49.4	49.2	48.6	50	49.4
24/2/2023	Fine	1.3	11:08	11:38	52.3	53.2	52.8	53.1	53.3	53.1	53.0	56.8	58.2	57.1	58.6	58.2	59.1	50.2	51.2	50.2	49.2	50.2	51.4
Average											52.8												
Baseline Level											55.4												
Action Level											When one valid documented complaint is received												
Limit Level											75												

Impact Phase Construction Noise Monitoring Data at Location NM2

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
1/2/2023	Fine	2.4	15:10	15:40	48.5	46.2	41.4	43.7	47.1	46.8	46.2	51.2	50.5	44.5	47.8	47.1	48.5	33.9	35.1	33	33.9	34.9	34.2
7/2/2023	Fine	2.1	10:10	10:40	44.1	42.6	44.7	45.2	46.8	51.5	46.9	49.2	46.2	48.8	47.2	47.5	53.2	32	36	34.9	34.9	36.2	41.2
13/2/2023	Fine	0.4	16:05	16:35	53.6	57.8	53.6	54	54.5	50	54.5	56.1	59.3	55.9	56.5	58.2	51.1	45.2	42.8	42.2	45.2	44.9	46
24/2/2023	Fine	1.2	14:28	14:58	45.9	48.1	45.6	46.7	47.1	48.2	47.0	47.6	51.2	47.5	48.3	49.1	51.3	41.2	40.3	42.1	43.2	41.2	40.2
Average											50.2												
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
7-Feb-23	16:25	Fine	0.1	0.1	24.6	7.7	<7.4	<4	7.4	>7.7	>7.8	5.0	>9.2	>9.5	3.4	>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
7-Feb-23	10:40	Fine	0.13	0.10	23.58	7.5	<5	<4	7.2	>7.6	>7.7	8.6	>108.3	>108.9	9.1	>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 10
Contact	: MR HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2304916
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Facsimile	: +852 2333 1316	Facsimile	: +852 2610 2021		
Project	: NENTX			Date Samples Received	: 07-Feb-2023
Order number	: ---	Quote number	: HKE/2751/2022_V2	Issue Date	: 21-Feb-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.

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



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 07-Feb-2023 to 21-Feb-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: HK2304916

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 18:00.

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	07-Feb-2023	07-Feb-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2304916-001	HK2304916-002	-----	-----	-----
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	----	0.1	pH Unit		6.4	6.5	---	---	---
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm		61	112	---	---	---
EA025: Suspended Solids (SS)	----	0.1	mg/L		3.4	9.1	---	---	---
ED037: Total Alkalinity as CaCO3	----	1	mg/L		16	42	---	---	---
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		5	5	---	---	---
ED045K: Chloride	16887-00-6	0.5	mg/L		6	6	---	---	---
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.11	0.29	---	---	---
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.02	0.01	---	---	---
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.4	0.4	---	---	---
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<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		3	5	---	---	---
EP020: Oil & Grease	----	5	mg/L		<5	<5	---	---	---
EP026C: Chemical Oxygen Demand	----	5	mg/L		<5	7	---	---	---
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		57	2910	---	---	---
EG020: Nickel	7440-02-0	1	µg/L		3	<1	---	---	---
EG020: Zinc	7440-66-6	10	µg/L		11	34	---	---	---
EG032: Calcium	7440-70-2	50	µg/L		3100	7390	---	---	---
EG032: Iron	7439-89-6	10	µg/L		490	10700	---	---	---
EG032: Magnesium	7439-95-4	50	µg/L		420	720	---	---	---
EG032: Potassium	7440-09-7	50	µg/L		550	1130	---	---	---
EG032: Sodium	7440-23-5	50	µg/L		8390	5710	---	---	---



Sub-Matrix: WATER				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	07-Feb-2023	07-Feb-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2304916-001	HK2304916-002	-----	-----	-----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		NOT DETECTED	NOT DETECTED	---	---	---
EM003: Total Coliforms	----	1	CFU/100mL		24	4200	---	---	---



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: 4859726)								
HK2304537-015	Anonymous	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	140	140	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4860636)								
HK2304895-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	964	959	0.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4860639)								
HK2304870-007	Anonymous	EA002: pH Value	----	0.1	pH Unit	9.6	9.5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4864853)								
HK2304999-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	86.4	86.0	0.5
HK2305003-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	55.4	54.8	1.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4859289)								
HK2304249-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	15.8	15.6	0.8
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862277)								
HK2304531-001	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862279)								
HK2305076-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	283	256	10.1
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862280)								
HK2305076-001	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	204	192	6.3
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4864981)								
HK2303582-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4879079)								
HK2306370-005	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	17.0	17.0	0.5
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4884864)								
HK2306672-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
EP: Aggregate Organics (QC Lot: 4870727)								
HK2305640-005	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<1	<1	0.0
EP: Aggregate Organics (QC Lot: 4879048)								
HK2304612-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	<5	<5	0.0
EG: Metals and Major Cations - Total (QC Lot: 4859203)								
HK2304536-002	Anonymous	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	30	30	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	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: 4859203) - Continued								
HK2304536-002	Anonymous	EG020: Manganese	7439-96-5	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	10	µg/L	12	11	0.0
EG: Metals and Major Cations - Total (QC Lot: 4859208)								
HK2304916-002	WM2	EG032: Iron	7439-89-6	10	µg/L	10700	10700	0.0
		EG032: Calcium	7440-70-2	50	µg/L	7390	7370	0.3
		EG032: Magnesium	7439-95-4	50	µg/L	720	720	0.0
		EG032: Potassium	7440-09-7	50	µg/L	1130	1140	0.9
		EG032: Sodium	7440-23-5	50	µg/L	5710	5690	0.4

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: 4859726)												
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: 4860636)												
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	102	----	95.0	105	----	----	
				<1	2000 mg/L	100.0	----	95.0	105	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 4864853)												
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	106	----	82.4	118	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4859289)												
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	94.2	----	89.0	120	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862277)												
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	99.3	----	88.2	108	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862279)												
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	100	----	89.8	108	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862280)												



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: 4862280) - Continued												
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	100	---	88.2	108	---	---	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4864981)												
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	97.6	---	92.4	106	---	---	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4879079)												
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	95.1	---	89.3	109	---	---	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4884864)												
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	---	---	---	---	---	---	---	
EP: Aggregate Organics (QC Lot: 4860347)												
EP030: Biochemical Oxygen Demand	---	---	mg/L	---	198 mg/L	93.9	---	78.6	118	---	---	
EP: Aggregate Organics (QC Lot: 4870727)												
EP005: Total Organic Carbon	---	1	mg/L	<1	5 mg/L	112	---	78.1	123	---	---	
				<1	100 mg/L	112	---	79.9	119	---	---	
EP: Aggregate Organics (QC Lot: 4879048)												
EP026C: Chemical Oxygen Demand	---	---	mg/L	---	25 mg/L	98.4	---	92.0	108	---	---	
				---	250 mg/L	103	---	92.3	106	---	---	
EP: Aggregate Organics (QC Lot: 4879360)												
EP020: Oil & Grease	---	2	mg/L	<2	20 mg/L	98.8	---	84.2	110	---	---	
EG: Metals and Major Cations - Total (QC Lot: 4859203)												
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	94.7	---	85.0	109	---	---	
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	104	---	90.0	111	---	---	
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	102	---	89.0	111	---	---	
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	102	---	85.0	115	---	---	
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	103	---	87.0	110	---	---	
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	98.9	---	86.0	114	---	---	
EG: Metals and Major Cations - Total (QC Lot: 4859208)												
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	101	---	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	104	---	85.0	115	---	---	
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	101	---	85.0	115	---	---	



Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 4859208) - Continued											
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	99.9	----	85.0	115	----	----



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: 4859289)										
HK2304249-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	5 mg/L	90.5	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862277)										
HK2304531-001	Anonymous	ED045K: Chloride	16887-00-6	5 mg/L	87.7	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862279)										
HK2305076-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	500 mg/L	90.2	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4862280)										
HK2305076-001	Anonymous	ED045K: Chloride	16887-00-6	50 mg/L	# Not Determined	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4864981)										
HK2303582-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	99.4	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 4879079)										
HK2306370-005	Anonymous	EK055K: Ammonia as N	7664-41-7	50 mg/L	107	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 4870727)										
HK2305640-005	Anonymous	EP005: Total Organic Carbon	----	5 mg/L	92.5	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 4879048)										
HK2304612-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	109	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 4859203)										
HK2304536-001	Anonymous	EG020: Cadmium	7440-43-9	5 µg/L	93.9	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	103	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	102	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	100	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	103	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	104	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 4859208)										
HK2304916-001	WM1	EG032: Calcium	7440-70-2	2000 µg/L	102	----	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: 4859208) - Continued										
HK2304916-001	WM1	EG032: Iron	7439-89-6	2000 µg/L	103	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	99.8	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	104	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	# Not Determined	----	75.0	125	----	----