

# 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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/5/2024	Sibata LD-5R	882106	1.044	Fine	13:12	14:12	15:12	29	31	31	30	285	500
8/5/2024	Sibata LD-5R	882106	1.044	Fine	13:21	14:21	15:21	21	20	26	22		
14/5/2024	Sibata LD-5R	882106	1.044	Fine	13:50	14:50	15:50	26	27	24	26		
20/5/2024	Sibata LD-5R	882106	1.044	Fine	13:09	14:09	15:09	21	24	20	22		
25/5/2024	Sibata LD-5R	882106	1.044	Fine	13:01	14:01	15:01	21	22	20	21		
31/5/2024	Sibata LD-5R	882106	1.044	Fine	13:16	14:16	15:16	24	25	24	24		
<b>Average</b>								<b>24</b>					
<b>Max.</b>								<b>31</b>					
<b>Min.</b>								<b>20</b>					

**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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/5/2024	Sibata LD-5R	942532	1.102	Fine	13:20	14:20	15:20	50	49	47	49	279	500
8/5/2024	Sibata LD-5R	942532	1.102	Fine	13:30	14:30	15:30	44	43	40	42		
14/5/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:40	14:40	15:40	41	51	40	44		
20/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:19	14:19	15:19	43	44	41	43		
25/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:11	14:11	15:11	41	40	39	40		
31/5/2024	Sibata LD-5R	942532	1.102	Fine	13:34	14:34	15:34	45	46	40	44		
<b>Average</b>								<b>44</b>					
<b>Max.</b>								<b>51</b>					
<b>Min.</b>								<b>39</b>					

**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
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
2/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:30	14:30	15:30	40	41	39	40	285	500
8/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:50	14:50	15:50	54	50	56	53		
14/5/2024	Sibata LD-5R	942532	1.102	Fine	13:30	14:30	15:30	51	50	52	51		
20/5/2024	Sibata LD-5R	942532	1.102	Fine	13:29	14:29	15:29	51	56	55	54		
25/5/2024	Sibata LD-5R	942532	1.102	Fine	13:26	14:26	15:26	40	41	54	45		
31/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:50	14:50	15:50	50	49	49	49		
<b>Average</b>								<b>49</b>					
<b>Max.</b>								<b>56</b>					
<b>Min.</b>								<b>39</b>					

The Summary of TSP 24-hour Concentration (µg/m<sup>3</sup>) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
2/5/2024	Fine	24.5	1012.0	2982.08	3006.08	1440	40	0.75	1080	2.7350	2.8611	0.1261	117	164	260
8/5/2024	Fine	26.3	1015.3	3014.22	3038.22	1440	37	0.64	923	2.6996	2.8091	0.1095	119		
14/5/2024	Fine	26.0	1014.2	3045.09	3069.09	1440	38	0.66	954	2.6933	2.8126	0.1193	125		
20/5/2024	Fine	24.9	1007.6	3075.88	3099.88	1440	37	0.63	912	2.6647	2.7900	0.1253	137		
25/5/2024	Fine	26.9	1009.2	3106.33	3130.33	1440	41	0.80	1157	2.6922	2.7989	0.1067	92		
31/5/2024	Fine	27.2	1007.2	3136.71	3160.71	1440	37	0.63	902	2.7431	2.8341	0.0910	101		
												Average	115		
												Min	92		
												Max	137		

The Summary of 24-hour TSP Concentration (µg/m<sup>3</sup>) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
2/5/2024	Fine	24.5	1012.0	2553.02	2577.02	1440	43	0.88	1261	2.7138	2.8765	0.1627	129	152	260
8/5/2024	Fine	26.3	1015.3	2585.99	2609.99	1440	43	0.88	1260	2.7115	2.8579	0.1464	116		
14/5/2024	Fine	26.0	1014.2	2618.78	2642.78	1440	44	0.92	1322	2.6920	2.8615	0.1695	128		
20/5/2024	Fine	24.9	1007.6	2652.65	2676.65	1440	43	0.85	1217	2.7054	2.8628	0.1574	129		
25/5/2024	Fine	26.9	1009.2	2686.52	2710.52	1440	42	0.82	1182	2.7204	2.8835	0.1631	138		
31/5/2024	Fine	27.2	1007.2	2720.30	2744.30	1440	42	0.82	1176	2.7339	2.8779	0.1440	122		
												Average	127		
												Min	116		
												Max	138		

The Summary of 24-hour TSP Concentration (µg/m<sup>3</sup>) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
2/5/2024	Fine	24.5	1012.0	3530.29	3554.29	1440	42	0.82	1177	2.6948	2.8472	0.1524	130	163	260
8/5/2024	Fine	26.3	1015.3	3564.16	3588.16	1440	42	0.82	1176	2.7100	2.8538	0.1438	122		
14/5/2024	Fine	26.0	1014.2	3597.13	3621.13	1440	40	0.74	1060	2.7015	2.8447	0.1432	135		
20/5/2024	Fine	24.9	1007.6	3630.91	3654.91	1440	42	0.81	1165	2.7061	2.8389	0.1328	114		
25/5/2024	Fine	26.9	1009.2	3664.80	3688.80	1440	41	0.79	1132	2.7069	2.8313	0.1244	110		
31/5/2024	Fine	27.2	1007.2	3698.68	3722.68	1440	41	0.78	1126	2.7018	2.8091	0.1073	95		
												Average	118		
												Min	95		
												Max	135		

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 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	
2/5/2024	Fine	1.4	13:12	13:42	59.2	60.4	61.4	61.2	60.9	60.8	60.7	62.3	63.6	64.9	64.7	63.9	63.8	56.2	57.4	58.6	58.1	57.2	57.1	
8/5/2024	Fine	1.1	13:10	13:40	61.4	62.4	62.2	61.6	60.0	61.4	61.6	64.1	65.3	65.2	64.1	63.2	64.6	57.2	58.1	58.3	57.7	56.8	57.7	
14/5/2024	Fine	1.2	13:00	13:30	60.3	60.4	59.3	59.9	60.4	60.9	60.2	62.4	62.6	61.4	62.0	62.9	63.0	58.3	58.5	57.6	58.1	58.4	59.1	
20/5/2024	Fine	1.9	13:36	14:06	61.4	60.3	59.1	58.9	59.9	60.4	60.1	63.2	62.4	61.3	60.4	61.9	63.1	58.1	57.6	56.2	55.2	56.4	57.6	
31/5/2024	Fine	1.2	13:02	13:32	60.2	61.4	60.3	59.4	60.2	61.2	60.5	62.4	63.6	62.2	61.3	62.6	63.9	58.2	59.4	58.1	57.6	58.3	59.2	
											<b>Average</b>		60.6											
											<b>Baseline Level</b>		55.4											
											<b>Action Level</b>		When one valid documented complaint is received											
											<b>Limit Level</b>		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	
2/5/2024	Fine	1.4	13:30	14:00	47.6	46.6	48.7	47.6	48.4	49.1	48.1	50.2	49.3	51.4	50.6	51.9	52.6	44.2	43.6	45.6	44.3	45.1	46.6	
8/5/2024	Fine	1.2	16:10	16:40	57.3	56.6	56.9	57.9	54.4	55.6	56.6	58.3	57.4	57.9	58.6	55.4	57.6	56.3	55.4	55.1	56.3	53.6	54.4	
14/5/2024	Fine	1.1	16:00	16:30	53.6	54.1	54.6	55.4	54.3	53.1	54.2	55.7	56.2	56.9	57.2	56.3	55.3	51.4	52.6	52.9	53.2	52.2	52.6	
20/5/2024	Fine	2.2	15:59	16:29	58.2	57.5	54.3	55.2	54.9	54	56.0	61.3	60.4	57.2	58.6	58.8	57.6	54.2	53.1	51.3	54.2	54.1	53.2	
31/5/2024	Fine	1.9	15:30	16:00	57.3	56.9	57.4	56.9	57.5	58.1	57.4	58.1	57.9	58.8	57.9	58.8	59.1	56.3	55.6	56.3	55.4	56.6	57.6	
											<b>Average</b>		55.4											
											<b>Baseline Level</b>		54.5											
											<b>Action Level</b>		When one valid documented complaint is received											
											<b>Limit Level</b>		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
8-May-24	9:00	Fine	0.07	0.4	22.8	8.5	<7.4	<4	6.9	>7.7	>7.8	7.1	>9.2	>9.5	2.9	>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
8-May-24	8:04	Fine	0.20	0.1	23.6	8.8	<5	<4	6.9	>7.6	>7.7	17.1	>108.3	>108.9	13.8	>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"
3. Orange Text equal to exceed Action Level
4. Red Text equal to exceed Limit Level



### CERTIFICATE OF ANALYSIS




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Quote : HKE/2751/2022\_V4  
number

Page : 1 of 9  
Work Order : HK2417956  
Date Samples Received : 08-May-2024  
Issue Date : 22-May-2024  
No. of samples received : 2  
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
 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 08-May-2024 to 21-May-2024.

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: HK2417956

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. The result(s) is/are related only to the item(s) tested.

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Microbiological sample(s) was/ were collected in 250mL sterile plastic bottles containing sodium thiosulfate. Sample(s) arrived at the laboratory at 17:55.

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	08-May-2024	08-May-2024	---	---	---
Compound	CAS Number	LOR	Unit	HK2417956-001	HK2417956-002	-----	-----	-----	
<b>EA/ED: Physical and Aggregate Properties</b>									
EA025: Suspended Solids (SS)	----	0.1	mg/L	2.9	13.8	---	---	---	
ED037: Total Alkalinity as CaCO3	----	1	mg/L	9	28	---	---	---	
<b>ED/EK: Inorganic Nonmetallic Parameters</b>									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	3	24	---	---	---	
ED045K: Chloride	16887-00-6	0.5	mg/L	6	5	---	---	---	
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.03	---	---	---	
EK058A: Nitrate as N	14797-55-8	0.01	mg/L	0.05	0.30	---	---	---	
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.3	0.2	---	---	---	
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	---	---	---	
<b>EP: Aggregate Organics</b>									
EP005: Total Organic Carbon	----	1	mg/L	2	1	---	---	---	
EP020: Oil & Grease	----	5	mg/L	<5	<5	---	---	---	
EP026C: Chemical Oxygen Demand	----	5	mg/L	9	6	---	---	---	
EP030: Biochemical Oxygen Demand	----	2	mg/L	<2	<2	---	---	---	
<b>EG: Metals and Major Cations - Total</b>									
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	---	---	---	
EG020: Copper	7440-50-8	1	µg/L	2	1	---	---	---	
EG020: Lead	7439-92-1	1	µg/L	<1	2	---	---	---	
EG020: Manganese	7439-96-5	1	µg/L	24	393	---	---	---	
EG020: Nickel	7440-02-0	1	µg/L	<1	<1	---	---	---	
EG020: Zinc	7440-66-6	10	µg/L	<10	11	---	---	---	
EG032: Calcium	7440-70-2	50	µg/L	2440	16200	---	---	---	
EG032: Iron	7439-89-6	10	µg/L	220	1030	---	---	---	
EG032: Magnesium	7439-95-4	50	µg/L	400	890	---	---	---	
EG032: Potassium	7440-09-7	50	µg/L	570	1980	---	---	---	
EG032: Sodium	7440-23-5	50	µg/L	6630	5190	---	---	---	
<b>EM: Microbiological Testing</b>									
EM002: E. coli	----	1	CFU/100mL	2800	1100	---	---	---	



Sub-Matrix: WATER				Sample ID	WM1	WM2	---	---	---
				Sampling date / time	08-May-2024	08-May-2024	---	---	---
Compound	CAS Number	LOR	Unit	HK2417956-001	HK2417956-002	-----	-----	-----	
<b>EM: Microbiological Testing - Continued</b>									
EM003: Total Coliforms	----	1	CFU/100mL	4400	2100	---	---	---	

----- END OF REPORT -----



### Laboratory Duplicate (DUP) Report

In the Laboratory Duplicate (DUP) report, RPD (%) of sample duplicate reporting "0.0" denotes that the difference between unrounded results of the sample and its duplicate analyses is less than the value of the limit of reporting of the specific testing. The RPD (%) meets the quality control requirement of the corresponding testing procedure.

Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5779646)</b>								
HK2417912-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	35	35	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5780206)</b>								
HK2417631-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	34.8	36.3	4.1
HK2418141-006	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	2.1	9.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778571)</b>								
HK2417627-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	4.65	4.75	2.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778590)</b>								
HK2417956-002	WM2	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	24	24	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778591)</b>								
HK2417956-002	WM2	ED045K: Chloride	16887-00-6	1	mg/L	5	5	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5781415)</b>								
HK2417851-081	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.02	0.02	0.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5789134)</b>								
HK2418157-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	49.3	49.8	1.0
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5800891)</b>								
HK2417255-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
<b>EP: Aggregate Organics (QC Lot: 5793928)</b>								
HK2417598-006	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<1	<1	0.0
<b>EP: Aggregate Organics (QC Lot: 5794638)</b>								
HK2417381-002	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	<5	<5	0.0
<b>EG: Metals and Major Cations - Total (QC Lot: 5778304)</b>								
HK2417956-001	WM1	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Manganese	7439-96-5	1	µg/L	24	24	0.0
		EG020: Nickel	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	<10	<10	0.0
<b>EG: Metals and Major Cations - Total (QC Lot: 5778305)</b>								



Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EG: Metals and Major Cations - Total (QC Lot: 5778305) - Continued</b>								
HK2417956-002	WM2	EG032: Iron	7439-89-6	10	µg/L	1030	1020	0.0
		EG032: Calcium	7440-70-2	50	µg/L	16200	16000	1.5
		EG032: Magnesium	7439-95-4	50	µg/L	890	880	1.6
		EG032: Potassium	7440-09-7	50	µg/L	1980	1960	0.9
		EG032: Sodium	7440-23-5	50	µg/L	5190	5070	2.3

**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				
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5779646)</b>															
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	103	----	95.0	105	----	----				
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 5780206)</b>															
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	94.0	----	84.9	114	----	----				
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778571)</b>															
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.8	----	89.3	109	----	----				
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778590)</b>															
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	106	----	93.8	108	----	----				
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778591)</b>															
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	95.6	----	88.2	108	----	----				
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5781415)</b>															
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	102	----	92.4	106	----	----				
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5789134)</b>															
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	95.2	----	90.1	123	----	----				
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5800891)</b>															
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----				
<b>EP: Aggregate Organics (QC Lot: 5779357)</b>															
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	101	----	77.6	118	----	----				
<b>EP: Aggregate Organics (QC Lot: 5793928)</b>															



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
<b>EP: Aggregate Organics (QC Lot: 5793928) - Continued</b>											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	95.8	----	81.7	124	----	----
				<1	100 mg/L	94.7	----	82.9	122	----	----
<b>EP: Aggregate Organics (QC Lot: 5794638)</b>											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	98.8	----	92.0	108	----	----
				----	250 mg/L	100	----	92.3	106	----	----
<b>EP: Aggregate Organics (QC Lot: 5796951)</b>											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	102	----	79.1	108	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5778304)</b>											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	96.0	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	99.1	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	98.0	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	96.5	----	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	97.3	----	86.0	114	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5778305)</b>											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	100	----	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	99.8	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	104	----	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
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778571)</b>										
HK2417627-001	Anonymous	EK055K: Ammonia as N	7664-41-7	5 mg/L	111	----	75.0	125	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778590)</b>										
HK2417956-002	WM2	ED041K: Sulphate as SO4 - Turbidimetric	----	50 mg/L	93.9	----	75.0	125	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778591)</b>										
HK2417956-002	WM2	ED045K: Chloride	16887-00-6	5 mg/L	85.7	----	75.0	125	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5781415)</b>										
HK2417851-081	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	119	----	75.0	125	----	----
<b>ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5789134)</b>										
HK2418157-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	5 mg/L	# Not Determined	----	75.0	125	----	----
<b>EP: Aggregate Organics (QC Lot: 5793928)</b>										
HK2417598-006	Anonymous	EP005: Total Organic Carbon	----	5 mg/L	97.4	----	75.0	125	----	----
<b>EP: Aggregate Organics (QC Lot: 5794638)</b>										
HK2417381-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	82.0	----	75.0	125	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5778304)</b>										
HK2417874-001	Anonymous	EG020: Cadmium	7440-43-9	5 µg/L	105	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	106	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	99.0	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	99.4	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	102	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	96.7	----	75.0	125	----	----
<b>EG: Metals and Major Cations - Total (QC Lot: 5778305)</b>										
HK2417956-001	WM1	EG032: Calcium	7440-70-2	2000 µg/L	105	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	105	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	105	----	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
<b>EG: Metals and Major Cations - Total (QC Lot: 5778305) - Continued</b>										
HK2417956-001	WM1	EG032: Potassium	7440-09-7	2000 µg/L	104	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	102	----	75.0	125	----	----