



**CERTIFICATE OF ANALYSIS**

<b>Work Order</b>	: <b>FC2500062</b>	<b>Laboratory</b>	: ALS Environmental - Calgary
<b>Amendment</b>	: <b>1</b>	<b>Account Manager</b>	: Megha Walia
<b>Client</b>	: <b>Regional Municipality of Wood Buffalo</b>	<b>Address</b>	: 2559 29th Street NE Calgary AB Canada T1Y 7B5
<b>Contact</b>	: Water Treatment Plant	<b>Telephone</b>	: +1 403 407 1800
<b>Address</b>	: 1 Silin Forest Road Fort McMurray Alberta Canada T9H 5A1	<b>Date Samples Received</b>	: 09-Jan-2025 08:17
<b>Telephone</b>	: 780-762-5863	<b>Date Analysis Commenced</b>	: 09-Jan-2025
<b>Project</b>	: Fort Chipewyan - SC4 Raw + SC4 Raw + Table 1 Treated	<b>Issue Date</b>	: 24-Jan-2025 11:44
<b>PO</b>	: 4500060925		
<b>C-O-C number</b>	: ----		
<b>Sampler</b>	: RS		
<b>Site</b>	: ----		
<b>Quote number</b>	: FC24-RMWB100-0005 FC SC4		
<b>No. of samples received</b>	: 2		
<b>No. of samples analysed</b>	: 2		

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
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

**Signatories**

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Remy Gatabazi	Lab Analyst	Organics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	Organics, Edmonton, Alberta



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
meq/L	milliequivalents per litre
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



**Analytical Results**

Sub-Matrix: Water (Matrix: Water)					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Physical Tests</b>										
Alkalinity, bicarbonate (as CaCO3)	----	E290/EO	1.0	mg/L	45.8	29.2	----	----	----	
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	1.0	mg/L	55.9	35.6	----	----	----	
Alkalinity, carbonate (as CaCO3)	----	E290/EO	1.0	mg/L	1.6	<1.0	----	----	----	
Alkalinity, carbonate (as CO3)	3812-32-6	E290/EO	1.0	mg/L	<1.0	<1.0	----	----	----	
Alkalinity, hydroxide (as CaCO3)	----	E290/EO	1.0	mg/L	<1.0	<1.0	----	----	----	
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L	<1.0	<1.0	----	----	----	
Alkalinity, phenolphthalein (as CaCO3)	----	E290/EO	1.0	mg/L	<1.0	<1.0	----	----	----	
Alkalinity, total (as CaCO3)	----	E290/EO	1.0	mg/L	47.4	29.2	----	----	----	
Conductivity	----	E100S/VA	2.0	µS/cm	152	87.9	----	----	----	
Conductivity	----	E100/EO	1.0	µS/cm	143	85.0	----	----	----	
Hardness (as CaCO3), dissolved	----	EC100/EO	0.50	mg/L	34.1	31.9	----	----	----	
pH	----	E108/EO	0.10	pH units	8.46	7.14	----	----	----	
Salinity	----	EC100S/VA	1.0	psu	<1.0	<1.0	----	----	----	
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	78.8	46.6	----	----	----	
Conductivity, KCl reference	----	E100S/VA	45000	µS/cm	52200	52200	----	----	----	
<b>Anions and Nutrients</b>										
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	13.2	3.51	----	----	----	
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	0.026	0.058	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	<0.020	0.048	----	----	----	
Nitrate + Nitrite (as N)	----	EC235.N+N/E O	0.0032	mg/L	<0.0224	0.0480	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.010	<0.010	----	----	----	



### Analytical Results

Sub-Matrix: Water  
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Anions and Nutrients</b>										
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	0.30	mg/L	3.72	4.38	----	----	----	
<b>Total Sulfides</b>										
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	<0.0015	0.0143	----	----	----	
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L	<0.0016	0.0152	----	----	----	
<b>Ion Balance</b>										
Anion sum	----	EC101/EO	0.10	meq/L	1.40	0.78	----	----	----	
Cation sum	----	EC101/EO	0.10	meq/L	1.38	0.80	----	----	----	
Ion balance (APHA)	----	EC101/EO	0.01	%	-0.72	1.26	----	----	----	
Ion balance (cations/anions)	----	EC101/EO	0.010	%	98.6	102	----	----	----	
Cations/EC	----	EC101/EO	0.10	-	0.97	0.95	----	----	----	
Anions/EC	----	EC101/EO	0.10	-	0.98	0.92	----	----	----	
<b>Total Metals</b>										
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0279	0.0388	----	----	----	
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00013	0.00025	----	----	----	
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0164	0.0165	----	----	----	
Beryllium, total	7440-41-7	E420/EO	0.000020	mg/L	<0.000020	<0.000020	----	----	----	
Bismuth, total	7440-69-9	E420/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.015	0.012	----	----	----	
Cadmium, total	7440-43-9	E420/EO	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----	
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	9.71	8.88	----	----	----	



### Analytical Results

Sub-Matrix: Water  
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Total Metals</b>										
Cesium, total	7440-46-2	E420/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Cobalt, total	7440-48-4	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	<0.00050	0.00132	----	----	----	
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	0.075	----	----	----	
Lead, total	7439-92-1	E420/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0030	0.0029	----	----	----	
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	2.62	2.68	----	----	----	
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.00673	0.00973	----	----	----	
Molybdenum, total	7439-98-7	E420/EO	0.000050	mg/L	0.000195	0.000218	----	----	----	
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L	<0.050	<0.050	----	----	----	
Potassium, total	7440-09-7	E420/EO	0.050	mg/L	0.945	0.982	----	----	----	
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L	0.00092	0.00108	----	----	----	
Selenium, total	7782-49-2	E420/EO	0.000050	mg/L	0.000104	<0.000050	----	----	----	
Silicon, total	7440-21-3	E420/EO	0.10	mg/L	1.87	2.25	----	----	----	
Silver, total	7440-22-4	E420/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	15.3	3.19	----	----	----	
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.0661	0.0607	----	----	----	
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L	1.35	1.40	----	----	----	
Tellurium, total	13494-80-9	E420/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	



## Analytical Results

Sub-Matrix: Water  
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Total Metals</b>										
Thallium, total	7440-28-0	E420/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Thorium, total	7440-29-1	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Tin, total	7440-31-5	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Titanium, total	7440-32-6	E420/EO	0.00030	mg/L	<0.00030	0.00094	----	----	----	
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Uranium, total	7440-61-1	E420/EO	0.000010	mg/L	<0.000010	0.000062	----	----	----	
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L	<0.00050	0.00066	----	----	----	
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	<0.0030	<0.0030	----	----	----	
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
<b>Dissolved Metals</b>										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0238	0.0036	----	----	----	
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00011	0.00017	----	----	----	
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0161	0.0157	----	----	----	
Beryllium, dissolved	7440-41-7	E421/EO	0.000020	mg/L	<0.000020	<0.000020	----	----	----	
Bismuth, dissolved	7440-69-9	E421/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.014	0.014	----	----	----	
Cadmium, dissolved	7440-43-9	E421/EO	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----	
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	9.30	8.55	----	----	----	
Cesium, dissolved	7440-46-2	E421/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	



### Analytical Results

Sub-Matrix: Water  
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Dissolved Metals</b>										
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00055	0.00120	----	----	----	
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	<0.010	0.020	----	----	----	
Lead, dissolved	7439-92-1	E421/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0028	0.0028	----	----	----	
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	2.64	2.56	----	----	----	
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00249	0.00634	----	----	----	
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L	0.000194	0.000198	----	----	----	
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	<0.050	----	----	----	
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	0.980	0.968	----	----	----	
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00094	0.00095	----	----	----	
Selenium, dissolved	7782-49-2	E421/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	1.83	2.06	----	----	----	
Silver, dissolved	7440-22-4	E421/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	15.5	3.25	----	----	----	
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0625	0.0618	----	----	----	
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	1.36	1.40	----	----	----	
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Thallium, dissolved	7440-28-0	E421/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	



## Analytical Results

Sub-Matrix: Water  
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Dissolved Metals</b>										
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L	<0.00030	<0.00030	----	----	----	
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Uranium, dissolved	7440-61-1	E421/EO	0.000010	mg/L	<0.000010	0.000055	----	----	----	
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	<0.0010	0.0011	----	----	----	
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Dissolved metals filtration location	----	EP421/EO	-	-	Laboratory	Field	----	----	----	
<b>Aggregate Organics</b>										
Naphthenic acids	----	E565/EO	1.0	mg/L	<1.0	<1.0	----	----	----	
<b>Volatile Organic Compounds</b>										
BTEX+Styrene, total	n/a	E611A/EO	1.5	µg/L	<1.5	<1.5	----	----	----	
<b>Hydrocarbons</b>										
F1 (C6-C10)	----	E581.F1/EO	100	µg/L	<100	<100	----	----	----	
F1-BTEX	----	EC580/EO	25	µg/L	<100	<100	----	----	----	
F2 (C10-C16)	----	E601/EO	100	µg/L	<100	<100	----	----	----	
F3 (C16-C34)	----	E601/EO	250	µg/L	<250	<250	----	----	----	
F4 (C34-C50)	----	E601/EO	250	µg/L	<250	<250	----	----	----	
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L	<380	<380	----	----	----	
TEH (C10-C50)	n/a	E601/EO	400	µg/L	<400	<400	----	----	----	
TEH (C16-C50)	----	E601/EO	400	µg/L	<400	<400	----	----	----	





## Analytical Results

Sub-Matrix: Water  
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Hydrocarbons Surrogates</b>										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	116	112	----	----	----	
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	89.2	114	----	----	----	
<b>Volatile Organic Compounds Surrogates</b>										
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	119	111	----	----	----	
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	103	107	----	----	----	
<b>Polycyclic Aromatic Hydrocarbons</b>										
Benzo(e)pyrene	192-97-2	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Perylene	198-55-0	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Acridine	260-94-6	E641A/EO	0.010	µg/L	<0.010	0.015	----	----	----	
Anthracene	120-12-7	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L	<0.0050	<0.0050	----	----	----	
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L	<0.015	<0.015	----	----	----	
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Chrysene	218-01-9	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L	<0.0050	<0.0050	----	----	----	
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	



### Analytical Results

Sub-Matrix: Water  
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	08-Jan-2025 09:30	08-Jan-2025 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2500062-001	FC2500062-002	----	----	----	
					Result	Result	----	----	----	
<b>Polycyclic Aromatic Hydrocarbons</b>										
Fluorene	86-73-7	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Methylnaphthalene, 1+2-	----	E641A/EO	0.015	µg/L	<0.015	<0.015	----	----	----	
Methylnaphthalene, 2-	91-57-6	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Naphthalene	91-20-3	E641A/EO	0.050	µg/L	<0.050	<0.050	----	----	----	
Phenanthrene	85-01-8	E641A/EO	0.020	µg/L	<0.020	<0.020	----	----	----	
Pyrene	129-00-0	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
Quinoline	91-22-5	E641A/EO	0.050	µg/L	<0.050	0.178	----	----	----	
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	0.010	µg/L	<0.010	<0.010	----	----	----	
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L	<0.030	<0.030	----	----	----	
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L	<0.060	<0.060	----	----	----	
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L	<0.070	<0.070	----	----	----	
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L	<0.065	<0.065	----	----	----	
PAHs, total (P2MMP)	n/a	E641A/EO	0.040	µg/L	<0.040	<0.040	----	----	----	
<b>Polycyclic Aromatic Hydrocarbons Surrogates</b>										
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	99.3	102	----	----	----	
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	129	115	----	----	----	
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	101	108	----	----	----	

Please refer to the General Comments section for an explanation of any result qualifiers detected.