



Your P.O. #: PENDING  
 Your C.O.C. #: 707160-01-01

**Attention: Crystal Stuart**

Comox Valley Regional District  
 Landfill  
 3699 Bevan Rd  
 Cumberland, BC  
 Canada VOR 1W0

**Report Date: 2023/10/24**  
 Report #: R3415437  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C382284**

**Received: 2023/10/11, 14:40**

Sample Matrix: Water  
 # Samples Received: 8

<b>Analyses</b>	<b>Quantity</b>	<b>Date Extracted</b>	<b>Date Analyzed</b>	<b>Laboratory Method</b>	<b>Analytical Method</b>
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	8	N/A	2023/10/14	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry (1)	8	N/A	2023/10/18	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Coliforms & E.coli by Quantitray (MPN)	8	N/A	2023/10/12	CTYSOP-00002	SM 23 9223
Conductivity @25C (1)	8	N/A	2023/10/14	BBY6SOP-00026	SM 24 2510 B m
Fluoride (1)	8	N/A	2023/10/13	BBY6SOP-00048	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1, 4)	8	N/A	2023/10/17	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (1)	8	N/A	2023/10/16	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (1, 5)	8	2023/10/16	2023/10/16	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV (1)	8	2023/10/16	2023/10/16	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (1)	8	N/A	2023/10/16	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (1, 5)	8	N/A	2023/10/16	BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (1)	8	2023/10/12	2023/10/17	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (1)	8	2023/10/14	2023/10/17	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N (Total) (1)	8	N/A	2023/10/16	AB SOP-00007	SM 24 4500 NH3 A G m
Nitrate + Nitrite (N) (1)	8	N/A	2023/10/13	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water (1)	8	N/A	2023/10/13	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N) (1)	8	N/A	2023/10/14	BBY WI-00033	Auto Calc
PAH in Water by GC/MS (SIM) (1)	3	2023/10/17	2023/10/17	BBY8SOP-00021	BCMOE BCLM Jul2017m
PAH in Water by GC/MS (SIM) (1)	5	2023/10/17	2023/10/18	BBY8SOP-00021	BCMOE BCLM Jul2017m
Total LMW, HMW, Total PAH Calc (1, 6)	8	N/A	2023/10/18	BBY WI-00033	Auto Calc
pH @25°C (1, 7)	8	N/A	2023/10/14	BBY6SOP-00026	SM 24 4500-H+ B m
Resin and Fatty Acids (2)	5	2023/10/17	2023/10/18	CAL SOP-00099	AE129.0
Resin and Fatty Acids (2)	3	2023/10/17	2023/10/19	CAL SOP-00099	AE129.0
Salinity by Conductivity Method (1)	8	N/A	2023/10/14	BBY6SOP-00026	SM 24 2520 B m
Total Dissolved Solids (Filt. Residue) (1)	8	2023/10/13	2023/10/16	BBY6SOP-00033	SM 24 2540 C m
Turbidity (1)	8	N/A	2023/10/13	BBY6SOP-00027	SM 24 2130 B m
OC Pesticides (Selected) & PCB (3, 8)	8	2023/10/18	2023/10/19	CAM SOP-00307	EPA 8081B/ 8082A
OC Pesticides Summed Parameters (3)	8	N/A	2023/10/18	CAM SOP-00307	EPA 8081B/ 8082A
GC/MS Analysis of OP Pesticides (3)	8	2023/10/16	2023/10/18	CAM SOP-00301	EPA 8270 m



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**Received: 2023/10/11, 14:40**

Sample Matrix: Water  
# Samples Received: 8

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Phenoxy Acid Herbicides (3)	8	2023/10/16	2023/10/17	CAM SOP-00330	EPA 8270 m
Triazine Herbicides (3)	8	2023/10/16	2023/10/17	CAM SOP-00301	EPA 8270 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Bureau Veritas Vancouver, 4606 Canada Way , Burnaby, BC, V5G 1K5
- (2) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
- (3) This test was performed by Bureau Veritas Campobello, 6740 Campobello Road , Mississauga, ON, L5N 2L8
- (4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (5) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (6) Total PAHs in Water include: Quinoline, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Acridine, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b&j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.
- (7) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.



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(8) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
Customer Solutions, Western Canada Customer Experience Team  
Email: customersolutionswest@bureauveritas.com  
Phone# (833) 282-5227

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For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Food laboratory operations.



BUREAU VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
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### RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CBO456	CBO457		CBO458	CBO460		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30		2023/10/11 08:35	2023/10/11 08:00		
COC Number		707160-01-01	707160-01-01		707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	QC Batch	W101123-CS-05	W101123-CS-06	RDL	QC Batch
<b>ANIONS</b>								
Nitrite (N)	mg/L	<0.0050	<0.0050	B152713	<0.0050	<0.0050	0.0050	B152713
<b>Calculated Parameters</b>								
Nitrate (N)	mg/L	0.066	0.062	B149940	0.063	<0.020	0.020	B149940
<b>Misc. Inorganics</b>								
Conductivity	uS/cm	100	120	B153118	120	<2.0	2.0	B153118
pH	pH	7.46	7.58	B153117	7.69	6.31	N/A	B153117
Salinity	g/L	0.052	0.059	B153109	0.059	0.012	0.010	B153109
Total Dissolved Solids	mg/L	84	72	B151977	80	<10	10	B151977
<b>Anions</b>								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	B153121	<1.0	<1.0	1.0	B153121
Alkalinity (Total as CaCO3)	mg/L	46	56	B153121	57	1.3	1.0	B153121
Bicarbonate (HCO3)	mg/L	56	69	B153121	69	1.5	1.0	B153121
Carbonate (CO3)	mg/L	<1.0	<1.0	B153121	<1.0	<1.0	1.0	B153121
Dissolved Fluoride (F)	mg/L	<0.050	<0.050	B153055	<0.050	<0.050	0.050	B152616
Hydroxide (OH)	mg/L	<1.0	<1.0	B153121	<1.0	<1.0	1.0	B153121
Chloride (Cl)	mg/L	<1.0	<1.0	B155388	<1.0	<1.0	1.0	B155388
Sulphate (SO4)	mg/L	2.4	3.1	B155388	3.2	<1.0	1.0	B155388
<b>Nutrients</b>								
Total Ammonia (N)	mg/L	<0.015	<0.015	B155956	<0.015	<0.015	0.015	B155956
Nitrate plus Nitrite (N)	mg/L	0.066	0.062	B152709	0.063	<0.020	0.020	B152709
<b>Pesticides &amp; Herbicides</b>								
Prometon	ug/L	<0.5	<0.5	B161500	<0.5	<0.5	0.5	B161500
Simazine	ug/L	<3	<3	B161500	<3	<3	3	B161500
Atrazine	ug/L	<1	<1	B161500	<1	<1	1	B161500
Propazine	ug/L	<3	<3	B161500	<3	<3	3	B161500
Metribuzin (Sencor)	ug/L	<3	<3	B161500	<3	<3	3	B161500
Simetryn	ug/L	<0.5	<0.5	B161500	<0.5	<0.5	0.5	B161500
Ametryn	ug/L	<3	<3	B161500	<3	<3	3	B161500
Prometryn	ug/L	<3	<3	B161500	<3	<3	3	B161500
Terbutryne	ug/L	<0.5	<0.5	B161500	<0.5	<0.5	0.5	B161500
Cyanazine (Bladex)	ug/L	<3	<3	B161500	<3	<3	3	B161500
RDL = Reportable Detection Limit N/A = Not Applicable								



**RESULTS OF CHEMICAL ANALYSES OF WATER**

Bureau Veritas ID		CBO456	CBO457		CBO458	CBO460		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30		2023/10/11 08:35	2023/10/11 08:00		
COC Number		707160-01-01	707160-01-01		707160-01-01	707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-03</b>	<b>W101123-CS-04</b>	<b>QC Batch</b>	<b>W101123-CS-05</b>	<b>W101123-CS-06</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Physical Properties</b>								
Turbidity	NTU	0.24	0.24	B151852	0.18	<0.10	0.10	B151852
<b>Surrogate Recovery (%)</b>								
2-Fluorobiphenyl	%	56	53	B161500	53	53		B161500
D14-Terphenyl (FS)	%	77	79	B161500	81	82		B161500
D5-NITROBENZENE (sur.)	%	68	64	B161500	68	62		B161500
RDL = Reportable Detection Limit								



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CBO461	CBO462	CBO463		CBO464		
Sampling Date		2023/10/11 09:10	2023/10/11 09:50	2023/10/11 10:20		2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01	707160-01-01		707160-01-01		
	UNITS	W101123-CS-07	W101123-CS-08	W101123-CS-09	QC Batch	W101123-CS-10	RDL	QC Batch
<b>ANIONS</b>								
Nitrite (N)	mg/L	<0.0050	<0.0050	<0.0050	B152713	<0.0050	0.0050	B152713
<b>Calculated Parameters</b>								
Nitrate (N)	mg/L	0.065	0.031	0.068	B149940	0.059	0.020	B149940
<b>Misc. Inorganics</b>								
Conductivity	uS/cm	92	68	77	B153118	200	2.0	B153118
pH	pH	7.06	6.38	6.93	B153117	7.63	N/A	B153117
Salinity	g/L	0.047	0.036	0.040	B153109	0.096	0.010	B153109
Total Dissolved Solids	mg/L	64	50	46	B151977	110	10	B151977
<b>Anions</b>								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	<1.0	B153121	<1.0	1.0	B153121
Alkalinity (Total as CaCO3)	mg/L	42	29	37	B153121	60	1.0	B153121
Bicarbonate (HCO3)	mg/L	51	36	45	B153121	73	1.0	B153121
Carbonate (CO3)	mg/L	<1.0	<1.0	<1.0	B153121	<1.0	1.0	B153121
Dissolved Fluoride (F)	mg/L	<0.050	<0.050	<0.050	B153055	<0.050	0.050	B153055
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	B153121	<1.0	1.0	B153121
Chloride (Cl)	mg/L	<1.0	<1.0	<1.0	B155388	14	1.0	B155388
Sulphate (SO4)	mg/L	3.1	<1.0	1.6	B155388	14	1.0	B155388
<b>Nutrients</b>								
Total Ammonia (N)	mg/L	<0.015	<0.015	<0.015	B155956	0.34	0.015	B155964
Nitrate plus Nitrite (N)	mg/L	0.065	0.031	0.068	B152709	0.059	0.020	B152709
<b>Pesticides &amp; Herbicides</b>								
Prometon	ug/L	<0.5	<0.5	<0.5	B161500	<0.5	0.5	B161500
Simazine	ug/L	<3	<3	<3	B161500	<3	3	B161500
Atrazine	ug/L	<1	<1	<1	B161500	<1	1	B161500
Propazine	ug/L	<3	<3	<3	B161500	<3	3	B161500
Metribuzin (Sencor)	ug/L	<3	<3	<3	B161500	<3	3	B161500
Simetryn	ug/L	<0.5	<0.5	<0.5	B161500	<0.5	0.5	B161500
Ametryn	ug/L	<3	<3	<3	B161500	<3	3	B161500
Prometryn	ug/L	<3	<3	<3	B161500	<3	3	B161500
Terbutryne	ug/L	<0.5	<0.5	<0.5	B161500	<0.5	0.5	B161500
Cyanazine (Bladex)	ug/L	<3	<3	<3	B161500	<3	3	B161500
RDL = Reportable Detection Limit N/A = Not Applicable								



**RESULTS OF CHEMICAL ANALYSES OF WATER**

Bureau Veritas ID		CBO461	CBO462	CBO463		CBO464		
Sampling Date		2023/10/11 09:10	2023/10/11 09:50	2023/10/11 10:20		2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01	707160-01-01		707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-07</b>	<b>W101123-CS-08</b>	<b>W101123-CS-09</b>	<b>QC Batch</b>	<b>W101123-CS-10</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Physical Properties</b>								
Turbidity	NTU	<0.10	5.9	0.25	B151852	50	0.10	B151852
<b>Surrogate Recovery (%)</b>								
2-Fluorobiphenyl	%	56	51	52	B161500	50		B161500
D14-Terphenyl (FS)	%	81	79	78	B161500	79		B161500
D5-NITROBENZENE (sur.)	%	64	61	67	B161500	60		B161500
RDL = Reportable Detection Limit								



BUREAU  
VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### PESTICIDES BY GC-MS (WATER)

Bureau Veritas ID		CBO456	CBO457	CBO458	CBO460	CBO461		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	W101123-CS-06	W101123-CS-07	RDL	QC Batch

Pesticides & Herbicides								
Aldicarb	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B161243
Atrazine	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B161243
Bendiocarb	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Carbaryl	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B161243
Carbofuran	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B161243
Chlorpyrifos (Dursban)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Cyanazine (Bladex)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B161243
Demeton-S	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Diazinon	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Dichlorvos	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Dimethoate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Ethion	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B161243
Fenchlorphos (Ronnel)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Fenthion	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B161243
Fonofos	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Guthion (Azinphos-methyl)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B161243
Malathion	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Metolachlor	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B161243
Mevinphos (Phosdrin)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Parathion Ethyl	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Parathion methyl	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Phorate (Thimet)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B161243
Phosmet	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Prometryn	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B161243
Simazine	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B161243
Terbufos	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B161243
Triallate	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B161243
Trifluralin	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B161243

Surrogate Recovery (%)								
2-Fluorobiphenyl	%	81	81	77	71	84		B161243
D14-Terphenyl (FS)	%	88	89	90	90	93		B161243
D5-NITROBENZENE (sur.)	%	81	81	75	71	84		B161243

RDL = Reportable Detection Limit





BUREAU  
VERITAS

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Comox Valley Regional District  
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**PESTICIDES BY GC-MS (WATER)**

Bureau Veritas ID		CBO462	CBO463	CBO464		
Sampling Date		2023/10/11 09:50	2023/10/11 10:20	2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01	707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-08</b>	<b>W101123-CS-09</b>	<b>W101123-CS-10</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Pesticides &amp; Herbicides</b>						
Aldicarb	ug/L	<5.0	<5.0	<5.0	5.0	B161243
Atrazine	ug/L	<1.0	<1.0	<1.0	1.0	B161243
Bendiocarb	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Carbaryl	ug/L	<5.0	<5.0	<5.0	5.0	B161243
Carbofuran	ug/L	<5.0	<5.0	<5.0	5.0	B161243
Chlorpyrifos (Dursban)	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Cyanazine (Bladex)	ug/L	<5.0	<5.0	<5.0	5.0	B161243
Demeton-S	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Diazinon	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Dichlorvos	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Dimethoate	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Ethion	ug/L	<1.0	<1.0	<1.0	1.0	B161243
Fenchlorphos (Ronnel)	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Fenthion	ug/L	<1.0	<1.0	<1.0	1.0	B161243
Fonofos	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Guthion (Azinphos-methyl)	ug/L	<1.0	<1.0	<1.0	1.0	B161243
Malathion	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Metolachlor	ug/L	<5.0	<5.0	<5.0	5.0	B161243
Mevinphos (Phosdrin)	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Parathion Ethyl	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Parathion methyl	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Phorate (Thimet)	ug/L	<1.0	<1.0	<1.0	1.0	B161243
Phosmet	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Prometryn	ug/L	<1.0	<1.0	<1.0	1.0	B161243
Simazine	ug/L	<2.0	<2.0	<2.0	2.0	B161243
Terbufos	ug/L	<1.0	<1.0	<1.0	1.0	B161243
Triallate	ug/L	<5.0	<5.0	<5.0	5.0	B161243
Trifluralin	ug/L	<5.0	<5.0	<5.0	5.0	B161243
<b>Surrogate Recovery (%)</b>						
2-Fluorobiphenyl	%	84	41	83		B161243
D14-Terphenyl (FS)	%	91	45	93		B161243
D5-NITROBENZENE (sur.)	%	85	40	84		B161243
RDL = Reportable Detection Limit						



BUREAU  
VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### PHENOXYALKYL ACID PESTICIDES/HERBICIDES (WATER)

Bureau Veritas ID		CBO456	CBO457	CBO458	CBO460	CBO461		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	W101123-CS-06	W101123-CS-07	RDL	QC Batch
<b>Pesticides &amp; Herbicides</b>								
2,4-D (BEE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
Dicamba	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
MCPP	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
MCPA	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
Dichlorprop	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
2,4-D	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
2,4,5-TP	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
2,4,5-T	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
2,4-DB	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
Picloram	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B161499
<b>Surrogate Recovery (%)</b>								
2,4-Dichlorophenyl Acetic Acid	%	80	80	79	68	70		B161499
2,5-Dibromobenzoic Acid	%	89	89	81	63	56		B161499
4,4-Dibromobiphenyl	%	85	88	89	78	75		B161499
RDL = Reportable Detection Limit								

Bureau Veritas ID		CBO462	CBO463	CBO464		
Sampling Date		2023/10/11 09:50	2023/10/11 10:20	2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-08	W101123-CS-09	W101123-CS-10	RDL	QC Batch
<b>Pesticides &amp; Herbicides</b>						
2,4-D (BEE)	ug/L	<0.50	<0.50	<0.50	0.50	B161499
Dicamba	ug/L	<0.50	<0.50	<0.50	0.50	B161499
MCPP	ug/L	<0.50	<0.50	<0.50	0.50	B161499
MCPA	ug/L	<0.50	<0.50	<0.50	0.50	B161499
Dichlorprop	ug/L	<0.50	<0.50	<0.50	0.50	B161499
2,4-D	ug/L	<0.50	<0.50	<0.50	0.50	B161499
2,4,5-TP	ug/L	<0.50	<0.50	<0.50	0.50	B161499
2,4,5-T	ug/L	<0.50	<0.50	<0.50	0.50	B161499
2,4-DB	ug/L	<0.50	<0.50	<0.50	0.50	B161499
Picloram	ug/L	<0.50	<0.50	<0.50	0.50	B161499
<b>Surrogate Recovery (%)</b>						
2,4-Dichlorophenyl Acetic Acid	%	73	70	68		B161499
2,5-Dibromobenzoic Acid	%	78	53	50		B161499
4,4-Dibromobiphenyl	%	73	81	83		B161499
RDL = Reportable Detection Limit						



BUREAU VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

**ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)**

Bureau Veritas ID		CBO456	CBO457	CBO458	CBO460	CBO461		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	W101123-CS-06	W101123-CS-07	RDL	QC Batch

**Calculated Parameters**

Aldrin + Dieldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
DDT + Metabolites	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
Heptachlor + Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161502
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161502

**Pesticides & Herbicides**

a-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
a-Chlordane	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
b-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
d-BHC	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Endosulfan I	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Endosulfan II	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Endosulfan Sulfate	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Endrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Endrin Aldehyde	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Endrin ketone	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Mirex	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
o,p'-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Octachlorostyrene	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Toxaphene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	B161501
Lindane	ug/L	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	B161501
Heptachlor	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Aldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Heptachlor Epoxide	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Oxychlordane	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
g-Chlordane	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Dieldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
o,p'-DDE	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501

RDL = Reportable Detection Limit



**ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)**

Bureau Veritas ID		CBO456	CBO457	CBO458	CBO460	CBO461		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	W101123-CS-06	W101123-CS-07	RDL	QC Batch
p,p'-DDE	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
o,p'-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
p,p'-DDD	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
p,p'-DDT	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	B161501
Methoxychlor	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	B161501
Aroclor 1016	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1221	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1232	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	B161501
<b>Surrogate Recovery (%)</b>								
2,4,5,6-Tetrachloro-m-xylene	%	83	75	80	76	83		B161501
Decachlorobiphenyl	%	107	98	106	109	108		B161501
RDL = Reportable Detection Limit								



**ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)**

Bureau Veritas ID		CBO462	CBO463	CBO464		
Sampling Date		2023/10/11 09:50	2023/10/11 10:20	2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-08	W101123-CS-09	W101123-CS-10	RDL	QC Batch
<b>Calculated Parameters</b>						
Aldrin + Dieldrin	ug/L	<0.005	<0.005	<0.005	0.005	B161502
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	0.005	B161502
DDT + Metabolites	ug/L	<0.005	<0.005	<0.005	0.005	B161502
Heptachlor + Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	0.005	B161502
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	B161502
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	B161502
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	B161502
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	0.005	B161502
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	B161502
<b>Pesticides &amp; Herbicides</b>						
a-BHC	ug/L	<0.005	<0.005	<0.005	0.005	B161501
a-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	B161501
b-BHC	ug/L	<0.005	<0.005	<0.005	0.005	B161501
d-BHC	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Endosulfan I	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Endosulfan II	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Endosulfan Sulfate	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Endrin	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Endrin Aldehyde	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Endrin ketone	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Mirex	ug/L	<0.005	<0.005	<0.005	0.005	B161501
o,p'-DDT	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Octachlorostyrene	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Toxaphene	ug/L	<0.2	<0.2	<0.2	0.2	B161501
Lindane	ug/L	<0.003	<0.003	<0.003	0.003	B161501
Heptachlor	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Aldrin	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Heptachlor Epoxide	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Oxychlordane	ug/L	<0.005	<0.005	<0.005	0.005	B161501
g-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Dieldrin	ug/L	<0.005	<0.005	<0.005	0.005	B161501
o,p'-DDE	ug/L	<0.005	<0.005	<0.005	0.005	B161501
RDL = Reportable Detection Limit						



**ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)**

Bureau Veritas ID		CBO462	CBO463	CBO464		
Sampling Date		2023/10/11 09:50	2023/10/11 10:20	2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-08	W101123-CS-09	W101123-CS-10	RDL	QC Batch
p,p'-DDE	ug/L	<0.005	<0.005	<0.005	0.005	B161501
o,p'-DDD	ug/L	<0.005	<0.005	<0.005	0.005	B161501
p,p'-DDD	ug/L	<0.005	<0.005	<0.005	0.005	B161501
p,p'-DDT	ug/L	<0.005	<0.005	<0.005	0.005	B161501
Methoxychlor	ug/L	<0.01	<0.01	<0.01	0.01	B161501
Aroclor 1016	ug/L	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1221	ug/L	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1232	ug/L	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	B161501
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	B161501
<b>Surrogate Recovery (%)</b>						
2,4,5,6-Tetrachloro-m-xylene	%	63	81	71		B161501
Decachlorobiphenyl	%	87	114	105		B161501
RDL = Reportable Detection Limit						



**MICROBIOLOGY (WATER)**

<b>Bureau Veritas ID</b>		CBO456	CBO457	CBO458	CBO460	CBO461	
<b>Sampling Date</b>		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10	
<b>COC Number</b>		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01	
	<b>UNITS</b>	<b>W101123-CS-03</b>	<b>W101123-CS-04</b>	<b>W101123-CS-05</b>	<b>W101123-CS-06</b>	<b>W101123-CS-07</b>	<b>QC Batch</b>
<b>Microbiological Param.</b>							
Total Coliforms (QT)	MPN/100mL	0	0	0	0	0	B152927
E. coli (QT)	MPN/100mL	0	0	0	0	0	B152927

<b>Bureau Veritas ID</b>		CBO462	CBO463	CBO464	
<b>Sampling Date</b>		2023/10/11 09:50	2023/10/11 10:20	2023/10/11 11:10	
<b>COC Number</b>		707160-01-01	707160-01-01	707160-01-01	
	<b>UNITS</b>	<b>W101123-CS-08</b>	<b>W101123-CS-09</b>	<b>W101123-CS-10</b>	<b>QC Batch</b>
<b>Microbiological Param.</b>					
Total Coliforms (QT)	MPN/100mL	56	1.0	50	B152927
E. coli (QT)	MPN/100mL	1.0	0	0	B152927



BUREAU  
VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### RESIN AND FATTY ACIDS BY GC-MS (WATER)

Bureau Veritas ID		CBO456	CBO457	CBO458	CBO460	CBO461		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	W101123-CS-06	W101123-CS-07	RDL	QC Batch

#### Misc. Organics

Decanoic acid (C10)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Undecanoic acid (C11)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Dodecanoic acid (C12)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Tetradecanoic acid (C14)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Hexadecanoic acid (C16)	mg/L	0.0074 (1)	<0.0070 (1)	<0.0070 (1)	<0.0070 (1)	<0.0070 (1)	0.0070	B156274
Octadecanoic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Oleic acid (C18:1)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Linoleic acid (C18:2)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Linolenic acid (C18:3)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Eicosanoic acid (C20)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Docosanoic acid (C22)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Pimaric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Sandaracopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Isopimaric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Palustric acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Dehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Abietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
Neoabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
14-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
12-chlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	B156274
* Total of Resin Acids Detected	mg/L	<0.060	<0.060	<0.060	<0.060	<0.060	0.060	B156274
* Total of Fatty Acids Detected	mg/L	<0.072	<0.072	<0.072	<0.072	<0.072	0.072	B156274

#### Surrogate Recovery (%)

HEPTADECANOIC ACID (sur.)	%	89	90	86	86	90		B156274
O-METHYLPODOCARPIC ACID (sur.)	%	90	90	80	85	89		B156274

RDL = Reportable Detection Limit

(1) Detection limit raised due to interferent.





**RESIN AND FATTY ACIDS BY GC-MS (WATER)**

Bureau Veritas ID		CBO462		CBO463	CBO464		
Sampling Date		2023/10/11 09:50		2023/10/11 10:20	2023/10/11 11:10		
COC Number		707160-01-01		707160-01-01	707160-01-01		
	UNITS	W101123-CS-08	RDL	W101123-CS-09	W101123-CS-10	RDL	QC Batch
<b>Misc. Organics</b>							
Decanoic acid (C10)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Undecanoic acid (C11)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Dodecanoic acid (C12)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Tetradecanoic acid (C14)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Hexadecanoic acid (C16)	mg/L	<0.0070 (1)	0.0070	<0.0060	<0.0060	0.0060	B156274
Octadecanoic acid (C18)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Oleic acid (C18:1)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Linoleic acid (C18:2)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Linolenic acid (C18:3)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Eicosanoic acid (C20)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Docosanoic acid (C22)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
9,10-dichlorostearic acid (C18)	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Pimaric acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Sandaracopimaric acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Isopimaric acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Palustric acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Dehydroabietic acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Abietic acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
Neoabietic acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
14-chlorodehydroabietic acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
12-chlorodehydroabietic acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
12,14-dichlorodehydroabietic acid	mg/L	<0.0060	0.0060	<0.0060	<0.0060	0.0060	B156274
* Total of Resin Acids Detected	mg/L	<0.060	0.060	<0.060	<0.060	0.060	B156274
* Total of Fatty Acids Detected	mg/L	<0.072	0.072	<0.072	<0.072	0.072	B156274
<b>Surrogate Recovery (%)</b>							
HEPTADECANOIC ACID (sur.)	%	93		95	81		B156274
O-METHYLPODOCARPIC ACID (sur.)	%	96		96	85		B156274
RDL = Reportable Detection Limit							
(1) Detection limit raised due to interferent.							



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VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

<b>Bureau Veritas ID</b>		CBO456	CBO457	CBO458	CBO460	CBO461		
<b>Sampling Date</b>		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
<b>COC Number</b>		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-03</b>	<b>W101123-CS-04</b>	<b>W101123-CS-05</b>	<b>W101123-CS-06</b>	<b>W101123-CS-07</b>	<b>RDL</b>	<b>QC Batch</b>

#### Calculated Parameters

Total Hardness (CaCO3)	mg/L	44.3	55.7	54.0	<0.50	40.4	0.50	B149856
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#### Elements

Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	B154930
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#### Total Metals by ICPMS

Total Aluminum (Al)	ug/L	6.3	12.3	10.7	<3.0	<3.0	3.0	B153224
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B153224
Total Arsenic (As)	ug/L	0.30	0.28	0.28	<0.10	<0.10	0.10	B153224
Total Barium (Ba)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153224
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B153224
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153224
Total Boron (B)	ug/L	<50	<50	<50	<50	<50	50	B153224
Total Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	B153224
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153224
Total Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	B153224
Total Copper (Cu)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B153224
Total Iron (Fe)	ug/L	<10	<10	<10	<10	<10	10	B153224
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	B153224
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B153224
Total Manganese (Mn)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153224
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153224
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153224
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B153224
Total Silicon (Si)	ug/L	3180	2770	2740	<100	3530	100	B153224
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B153224
Total Strontium (Sr)	ug/L	25.1	31.1	29.5	<1.0	23.3	1.0	B153224
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	B153224
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153224
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153224
Total Uranium (U)	ug/L	<0.10	0.14	0.14	<0.10	<0.10	0.10	B153224
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153224
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153224
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B153224
Total Calcium (Ca)	mg/L	14.6	18.8	18.2	<0.050	13.1	0.050	B149858

RDL = Reportable Detection Limit



**CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)**

Bureau Veritas ID		CBO456	CBO457	CBO458	CBO460	CBO461		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	W101123-CS-06	W101123-CS-07	RDL	QC Batch
Total Magnesium (Mg)	mg/L	1.88	2.12	2.05	<0.050	1.89	0.050	B149858
Total Potassium (K)	mg/L	0.103	0.111	0.108	<0.050	0.104	0.050	B149858
Total Sodium (Na)	mg/L	1.35	1.35	1.28	<0.050	1.24	0.050	B149858
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	B149858
RDL = Reportable Detection Limit								



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Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Bureau Veritas ID		CBO462	CBO463		CBO464		
Sampling Date		2023/10/11 09:50	2023/10/11 10:20		2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01		707160-01-01		
	UNITS	W101123-CS-08	W101123-CS-09	QC Batch	W101123-CS-10	RDL	QC Batch
<b>Calculated Parameters</b>							
Total Hardness (CaCO3)	mg/L	29.0	34.0	B149856	67.6	0.50	B149856
<b>Elements</b>							
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	B154930	<0.0019	0.0019	B154937
<b>Total Metals by ICPMS</b>							
Total Aluminum (Al)	ug/L	175	16.1	B153224	24.0	3.0	B153224
Total Antimony (Sb)	ug/L	<0.50	<0.50	B153224	<0.50	0.50	B153224
Total Arsenic (As)	ug/L	<0.10	0.42	B153224	11.5	0.10	B153224
Total Barium (Ba)	ug/L	1.3	<1.0	B153224	<1.0	1.0	B153224
Total Beryllium (Be)	ug/L	<0.10	<0.10	B153224	<0.10	0.10	B153224
Total Bismuth (Bi)	ug/L	<1.0	<1.0	B153224	<1.0	1.0	B153224
Total Boron (B)	ug/L	<50	<50	B153224	<50	50	B153224
Total Cadmium (Cd)	ug/L	<0.010	<0.010	B153224	<0.010	0.010	B153224
Total Chromium (Cr)	ug/L	<1.0	<1.0	B153224	105	1.0	B153224
Total Cobalt (Co)	ug/L	1.48	<0.20	B153224	5.20	0.20	B153224
Total Copper (Cu)	ug/L	2.99	1.31	B153224	17.4	0.50	B153224
Total Iron (Fe)	ug/L	676	11	B153224	46200	10	B153224
Total Lead (Pb)	ug/L	<0.20	<0.20	B153224	0.41	0.20	B153224
Total Lithium (Li)	ug/L	<2.0	<2.0	B153224	<2.0	2.0	B153224
Total Manganese (Mn)	ug/L	123	2.3	B153224	372	1.0	B153224
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	B153224	1.1	1.0	B153224
Total Nickel (Ni)	ug/L	1.2	<1.0	B153224	7.1	1.0	B153224
Total Selenium (Se)	ug/L	<0.10	<0.10	B153224	0.13	0.10	B153224
Total Silicon (Si)	ug/L	4200	3570	B153224	8520	100	B153224
Total Silver (Ag)	ug/L	<0.020	<0.020	B153224	<0.020	0.020	B153224
Total Strontium (Sr)	ug/L	16.2	17.9	B153224	66.5	1.0	B153224
Total Thallium (Tl)	ug/L	<0.010	<0.010	B153224	<0.010	0.010	B153224
Total Tin (Sn)	ug/L	<5.0	<5.0	B153224	<5.0	5.0	B153224
Total Titanium (Ti)	ug/L	<5.0	<5.0	B153224	<5.0	5.0	B153224
Total Uranium (U)	ug/L	<0.10	<0.10	B153224	0.81	0.10	B153224
Total Vanadium (V)	ug/L	<5.0	<5.0	B153224	5.9	5.0	B153224
Total Zinc (Zn)	ug/L	<5.0	<5.0	B153224	<5.0	5.0	B153224
Total Zirconium (Zr)	ug/L	<0.10	<0.10	B153224	<0.10	0.10	B153224
Total Calcium (Ca)	mg/L	8.78	11.1	B149858	23.1	0.050	B149858
RDL = Reportable Detection Limit							



**CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)**

<b>Bureau Veritas ID</b>		CBO462	CBO463		CBO464		
<b>Sampling Date</b>		2023/10/11 09:50	2023/10/11 10:20		2023/10/11 11:10		
<b>COC Number</b>		707160-01-01	707160-01-01		707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-08</b>	<b>W101123-CS-09</b>	<b>QC Batch</b>	<b>W101123-CS-10</b>	<b>RDL</b>	<b>QC Batch</b>
Total Magnesium (Mg)	mg/L	1.72	1.55	B149858	2.40	0.050	B149858
Total Potassium (K)	mg/L	0.106	0.090	B149858	0.398	0.050	B149858
Total Sodium (Na)	mg/L	1.55	1.14	B149858	13.8	0.050	B149858
Total Sulphur (S)	mg/L	<3.0	<3.0	B149858	4.7	3.0	B149858
RDL = Reportable Detection Limit							



BUREAU VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### CSR/CCME D. METALS W/ CV HG-DISS (WATER)

<b>Bureau Veritas ID</b>		CBO456	CBO457	CBO458	CBO460	CBO461		
<b>Sampling Date</b>		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
<b>COC Number</b>		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-03</b>	<b>W101123-CS-04</b>	<b>W101123-CS-05</b>	<b>W101123-CS-06</b>	<b>W101123-CS-07</b>	<b>RDL</b>	<b>QC Batch</b>

#### Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	44.6	56.0	56.7	<0.50	41.8	0.50	B149702
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#### Elements

Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	B154921
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#### Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	4.2	7.5	7.7	10.5	<3.0	3.0	B153628
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	B153628
Dissolved Arsenic (As)	ug/L	0.29	0.27	0.27	<0.10	<0.10	0.10	B153628
Dissolved Barium (Ba)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153628
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B153628
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153628
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	B153628
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	B153628
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153628
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	B153628
Dissolved Copper (Cu)	ug/L	<0.20	<0.20	<0.20	<0.20	0.29	0.20	B153628
Dissolved Iron (Fe)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153628
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	B153628
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	B153628
Dissolved Manganese (Mn)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153628
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153628
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	B153628
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B153628
Dissolved Silicon (Si)	ug/L	3270	2960	2930	177	3700	100	B153628
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B153628
Dissolved Strontium (Sr)	ug/L	24.6	30.0	30.1	<1.0	23.4	1.0	B153628
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	B153628
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153628
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153628
Dissolved Uranium (U)	ug/L	<0.10	0.14	0.14	<0.10	<0.10	0.10	B153628
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153628
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	B153628
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B153628
Dissolved Calcium (Ca)	mg/L	14.8	18.9	19.2	0.051	13.6	0.050	B149703

RDL = Reportable Detection Limit



**CSR/CCME D. METALS W/ CV HG-DISS (WATER)**

Bureau Veritas ID		CBO456	CBO457	CBO458	CBO460	CBO461		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35	2023/10/11 08:00	2023/10/11 09:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	W101123-CS-06	W101123-CS-07	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	1.87	2.11	2.11	<0.050	1.90	0.050	B149703
Dissolved Potassium (K)	mg/L	0.102	0.107	0.109	<0.050	0.105	0.050	B149703
Dissolved Sodium (Na)	mg/L	1.35	1.36	1.37	0.284	1.36	0.050	B149703
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	B149703
RDL = Reportable Detection Limit								



**CSR/CCME D. METALS W/ CV HG-DISS (WATER)**

<b>Bureau Veritas ID</b>		CBO462	CBO463		CBO464		
<b>Sampling Date</b>		2023/10/11 09:50	2023/10/11 10:20		2023/10/11 11:10		
<b>COC Number</b>		707160-01-01	707160-01-01		707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-08</b>	<b>W101123-CS-09</b>	<b>QC Batch</b>	<b>W101123-CS-10</b>	<b>RDL</b>	<b>QC Batch</b>

**Calculated Parameters**

Dissolved Hardness (CaCO3)	mg/L	28.7	35.0	B149702	59.5	0.50	B149702
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**Elements**

Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	B154921	<0.0019	0.0019	B155227
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**Dissolved Metals by ICPMS**

Dissolved Aluminum (Al)	ug/L	109	3.9	B153628	<3.0	3.0	B153628
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	B153628	<0.50	0.50	B153628
Dissolved Arsenic (As)	ug/L	<0.10	0.41	B153628	1.41	0.10	B153628
Dissolved Barium (Ba)	ug/L	1.1	<1.0	B153628	<1.0	1.0	B153628
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	B153628	<0.10	0.10	B153628
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	B153628	<1.0	1.0	B153628
Dissolved Boron (B)	ug/L	<50	<50	B153628	<50	50	B153628
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	B153628	<0.010	0.010	B153628
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	B153628	<1.0	1.0	B153628
Dissolved Cobalt (Co)	ug/L	1.44	<0.20	B153628	0.57	0.20	B153628
Dissolved Copper (Cu)	ug/L	2.32	<0.20	B153628	<0.20	0.20	B153628
Dissolved Iron (Fe)	ug/L	374	<5.0	B153628	46.4	5.0	B153628
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	B153628	<0.20	0.20	B153628
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	B153628	<2.0	2.0	B153628
Dissolved Manganese (Mn)	ug/L	114	<1.0	B153628	22.6	1.0	B153628
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	B153628	<1.0	1.0	B153628
Dissolved Nickel (Ni)	ug/L	1.1	<1.0	B153628	<1.0	1.0	B153628
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	B153628	0.13	0.10	B153628
Dissolved Silicon (Si)	ug/L	4480	3730	B153628	3920	100	B153628
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	B153628	<0.020	0.020	B153628
Dissolved Strontium (Sr)	ug/L	15.0	17.8	B153628	59.4	1.0	B153628
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	B153628	<0.010	0.010	B153628
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	B153628	<5.0	5.0	B153628
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	B153628	<5.0	5.0	B153628
Dissolved Uranium (U)	ug/L	<0.10	<0.10	B153628	0.21	0.10	B153628
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	B153628	<5.0	5.0	B153628
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	B153628	<5.0	5.0	B153628
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	B153628	<0.10	0.10	B153628
Dissolved Calcium (Ca)	mg/L	8.72	11.5	B149703	20.0	0.050	B149703

RDL = Reportable Detection Limit





**CSR/CCME D. METALS W/ CV HG-DISS (WATER)**

Bureau Veritas ID		CBO462	CBO463		CBO464		
Sampling Date		2023/10/11 09:50	2023/10/11 10:20		2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01		707160-01-01		
	<b>UNITS</b>	<b>W101123-CS-08</b>	<b>W101123-CS-09</b>	<b>QC Batch</b>	<b>W101123-CS-10</b>	<b>RDL</b>	<b>QC Batch</b>
Dissolved Magnesium (Mg)	mg/L	1.67	1.56	B149703	2.34	0.050	B149703
Dissolved Potassium (K)	mg/L	0.098	0.089	B149703	0.406	0.050	B149703
Dissolved Sodium (Na)	mg/L	1.51	1.15	B149703	14.4	0.050	B149703
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	B149703	4.6	3.0	B149703
RDL = Reportable Detection Limit							



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Bureau Veritas Job #: C382284  
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Comox Valley Regional District  
Your P.O. #: PENDING

### CSR PAH IN WATER BY GC-MS (WATER)

Bureau Veritas ID		CBO456	CBO457	CBO458		CBO460		
Sampling Date		2023/10/11 07:35	2023/10/11 08:30	2023/10/11 08:35		2023/10/11 08:00		
COC Number		707160-01-01	707160-01-01	707160-01-01		707160-01-01		
	UNITS	W101123-CS-03	W101123-CS-04	W101123-CS-05	QC Batch	W101123-CS-06	RDL	QC Batch

#### Calculated Parameters

Low Molecular Weight PAH's	ug/L	<0.10	<0.10	<0.10	B150053	<0.10	0.10	B150053
High Molecular Weight PAH's	ug/L	<0.050	<0.050	<0.050	B150053	<0.050	0.050	B150053
Total PAH	ug/L	<0.10	<0.10	<0.10	B150053	<0.10	0.10	B150053

#### Polycyclic Aromatics

Quinoline	ug/L	<0.020	<0.020	<0.020	B156938	<0.020	0.020	B157557
Naphthalene	ug/L	<0.10	<0.10	<0.10	B156938	<0.10	0.10	B157557
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	B156938	<0.10	0.10	B157557
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
Acenaphthene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
Fluorene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
Phenanthrene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
Anthracene	ug/L	<0.010	<0.010	<0.010	B156938	<0.010	0.010	B157557
Acridine	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
Fluoranthene	ug/L	<0.020	<0.020	<0.020	B156938	<0.020	0.020	B157557
Pyrene	ug/L	<0.020	<0.020	<0.020	B156938	<0.020	0.020	B157557
Benzo(a)anthracene	ug/L	<0.010	<0.010	<0.010	B156938	<0.010	0.010	B157557
Chrysene	ug/L	<0.020	<0.020	<0.020	B156938	<0.020	0.020	B157557
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	<0.030	B156938	<0.030	0.030	B157557
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	<0.0050	B156938	<0.0050	0.0050	B157557
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	<0.0030	B156938	<0.0030	0.0030	B157557
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	B156938	<0.050	0.050	B157557

#### Surrogate Recovery (%)

D10-ANTHRACENE (sur.)	%	97	98	95	B156938	89		B157557
D8-ACENAPHTHYLENE (sur.)	%	97	97	98	B156938	86		B157557
D8-NAPHTHALENE (sur.)	%	80	81	96	B156938	73		B157557
TERPHENYL-D14 (sur.)	%	98	102	97	B156938	50		B157557

RDL = Reportable Detection Limit



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Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### CSR PAH IN WATER BY GC-MS (WATER)

Bureau Veritas ID		CBO461	CBO462	CBO463	CBO464		
Sampling Date		2023/10/11 09:10	2023/10/11 09:50	2023/10/11 10:20	2023/10/11 11:10		
COC Number		707160-01-01	707160-01-01	707160-01-01	707160-01-01		
	UNITS	W101123-CS-07	W101123-CS-08	W101123-CS-09	W101123-CS-10	RDL	QC Batch
<b>Calculated Parameters</b>							
Low Molecular Weight PAH`s	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	B150053
High Molecular Weight PAH`s	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B150053
Total PAH	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	B150053
<b>Polycyclic Aromatics</b>							
Quinoline	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	B157557
Naphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	B157557
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	B157557
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
Phenanthrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
Anthracene	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	B157557
Acridine	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
Fluoranthene	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	B157557
Pyrene	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	B157557
Benzo(a)anthracene	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	B157557
Chrysene	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	B157557
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	<0.030	<0.030	0.030	B157557
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	B157557
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0030	B157557
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	B157557
<b>Surrogate Recovery (%)</b>							
D10-ANTHRACENE (sur.)	%	87	91	89	88		B157557
D8-ACENAPHTHYLENE (sur.)	%	83	88	86	86		B157557
D8-NAPHTHALENE (sur.)	%	72	77	77	78		B157557
TERPHENYL-D14 (sur.)	%	62	52	68	56		B157557
RDL = Reportable Detection Limit							



### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.7°C
Package 2	8.0°C
Package 3	9.7°C
Package 4	7.3°C

**Results relate only to the items tested.**



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Bureau Veritas Job #: C382284

Report Date: 2023/10/24

### QUALITY ASSURANCE REPORT

Comox Valley Regional District

Your P.O. #: PENDING

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B156274	HEPTADECANOIC ACID (sur.)	2023/10/18	92	50 - 130	90	50 - 130	89	%		
B156274	O-METHYLPODOCARPIC ACID (sur.)	2023/10/18	86	50 - 130	82	50 - 130	92	%		
B156938	D10-ANTHRACENE (sur.)	2023/10/17	97	50 - 140	95	50 - 140	96	%		
B156938	D8-ACENAPHTHYLENE (sur.)	2023/10/17	95	50 - 140	95	50 - 140	98	%		
B156938	D8-NAPHTHALENE (sur.)	2023/10/17	87	50 - 140	84	50 - 140	90	%		
B156938	TERPHENYL-D14 (sur.)	2023/10/17	101	50 - 140	95	50 - 140	97	%		
B157557	D10-ANTHRACENE (sur.)	2023/10/18	84	50 - 140	85	50 - 140	87	%		
B157557	D8-ACENAPHTHYLENE (sur.)	2023/10/18	87	50 - 140	85	50 - 140	85	%		
B157557	D8-NAPHTHALENE (sur.)	2023/10/18	79	50 - 140	80	50 - 140	76	%		
B157557	TERPHENYL-D14 (sur.)	2023/10/18	70	50 - 140	74	50 - 140	71	%		
B161243	2-Fluorobiphenyl	2023/10/17	64	30 - 130	74	30 - 130	78	%		
B161243	D14-Terphenyl (FS)	2023/10/17	93	30 - 130	92	30 - 130	92	%		
B161243	D5-NITROBENZENE (sur.)	2023/10/17	64	30 - 130	80	30 - 130	82	%		
B161499	2,4-Dichlorophenyl Acetic Acid	2023/10/17	87	50 - 130	81	50 - 130	74	%		
B161499	2,5-Dibromobenzoic Acid	2023/10/17	99	10 - 130	87	10 - 130	73	%		
B161499	4,4-Dibromobiphenyl	2023/10/17	88	10 - 130	86	10 - 130	82	%		
B161500	2-Fluorobiphenyl	2023/10/17	57	30 - 130	55	30 - 130	51	%		
B161500	D14-Terphenyl (FS)	2023/10/17	76	30 - 130	79	30 - 130	79	%		
B161500	D5-NITROBENZENE (sur.)	2023/10/17	62	30 - 130	61	30 - 130	63	%		
B161501	2,4,5,6-Tetrachloro-m-xylene	2023/10/19			70	50 - 130	74	%		
B161501	Decachlorobiphenyl	2023/10/19			97	50 - 130	105	%		
B151852	Turbidity	2023/10/13			101	80 - 120	<0.10	NTU	2.0	20
B151977	Total Dissolved Solids	2023/10/16	101	80 - 120	95	80 - 120	<10	mg/L	NC	20
B152616	Dissolved Fluoride (F)	2023/10/13	NC	80 - 120	104	80 - 120	<0.050	mg/L	1.2	20
B152709	Nitrate plus Nitrite (N)	2023/10/13	108	80 - 120	107	80 - 120	<0.020	mg/L	9.3	25
B152713	Nitrite (N)	2023/10/13	103	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20
B153055	Dissolved Fluoride (F)	2023/10/13	106	80 - 120	104	80 - 120	<0.050	mg/L	NC	20
B153109	Salinity	2023/10/14					0.012, RDL=0.010	g/L		
B153117	pH	2023/10/14			100	97 - 103			2.4	N/A
B153118	Conductivity	2023/10/14			99	90 - 110	<2.0	uS/cm		
B153121	Alkalinity (PP as CaCO3)	2023/10/14					<1.0	mg/L		
B153121	Alkalinity (Total as CaCO3)	2023/10/14			103	80 - 120	<1.0	mg/L		



BUREAU VERITAS

Bureau Veritas Job #: C382284

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### QUALITY ASSURANCE REPORT(CONT'D)

Comox Valley Regional District

Your P.O. #: PENDING

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B153121	Bicarbonate (HCO3)	2023/10/14					<1.0	mg/L		
B153121	Carbonate (CO3)	2023/10/14					<1.0	mg/L		
B153121	Hydroxide (OH)	2023/10/14					<1.0	mg/L		
B153224	Total Aluminum (Al)	2023/10/17	107	80 - 120	100	80 - 120	<3.0	ug/L	NC	20
B153224	Total Antimony (Sb)	2023/10/17	NC	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
B153224	Total Arsenic (As)	2023/10/17	NC	80 - 120	101	80 - 120	<0.10	ug/L	1.5	20
B153224	Total Barium (Ba)	2023/10/17	NC	80 - 120	101	80 - 120	<1.0	ug/L	0.89	20
B153224	Total Beryllium (Be)	2023/10/17	106	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
B153224	Total Bismuth (Bi)	2023/10/17	102	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
B153224	Total Boron (B)	2023/10/17	NC	80 - 120	102	80 - 120	<50	ug/L	NC	20
B153224	Total Cadmium (Cd)	2023/10/17	98	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
B153224	Total Chromium (Cr)	2023/10/17	103	80 - 120	94	80 - 120	<1.0	ug/L	NC	20
B153224	Total Cobalt (Co)	2023/10/17	97	80 - 120	93	80 - 120	<0.20	ug/L	NC	20
B153224	Total Copper (Cu)	2023/10/17	96	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
B153224	Total Iron (Fe)	2023/10/17	87	80 - 120	101	80 - 120	<10	ug/L	NC	20
B153224	Total Lead (Pb)	2023/10/17	98	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
B153224	Total Lithium (Li)	2023/10/17	NC	80 - 120	98	80 - 120	<2.0	ug/L	1.2	20
B153224	Total Manganese (Mn)	2023/10/17	NC	80 - 120	98	80 - 120	<1.0	ug/L	5.4	20
B153224	Total Molybdenum (Mo)	2023/10/17	NC	80 - 120	103	80 - 120	<1.0	ug/L	0.039	20
B153224	Total Nickel (Ni)	2023/10/17	101	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
B153224	Total Selenium (Se)	2023/10/17	105	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
B153224	Total Silicon (Si)	2023/10/17	97	80 - 120	104	80 - 120	<100	ug/L	NC	20
B153224	Total Silver (Ag)	2023/10/17	98	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
B153224	Total Strontium (Sr)	2023/10/17	NC	80 - 120	96	80 - 120	<1.0	ug/L	0.19	20
B153224	Total Thallium (Tl)	2023/10/17	102	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
B153224	Total Tin (Sn)	2023/10/17	117	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
B153224	Total Titanium (Ti)	2023/10/17	125 (1)	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
B153224	Total Uranium (U)	2023/10/17	105	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
B153224	Total Vanadium (V)	2023/10/17	111	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
B153224	Total Zinc (Zn)	2023/10/17	101	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
B153224	Total Zirconium (Zr)	2023/10/17	92	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
B153628	Dissolved Aluminum (Al)	2023/10/16	91	80 - 120	98	80 - 120	<3.0	ug/L	0.93	20
B153628	Dissolved Antimony (Sb)	2023/10/16	98	80 - 120	99	80 - 120	<0.50	ug/L	NC	20



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B153628	Dissolved Arsenic (As)	2023/10/16	94	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
B153628	Dissolved Barium (Ba)	2023/10/16	93	80 - 120	97	80 - 120	<1.0	ug/L	0.88	20
B153628	Dissolved Beryllium (Be)	2023/10/16	95	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
B153628	Dissolved Bismuth (Bi)	2023/10/16	92	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
B153628	Dissolved Boron (B)	2023/10/16	93	80 - 120	98	80 - 120	<50	ug/L	NC	20
B153628	Dissolved Cadmium (Cd)	2023/10/16	97	80 - 120	98	80 - 120	<0.010	ug/L	NC	20
B153628	Dissolved Chromium (Cr)	2023/10/16	90	80 - 120	94	80 - 120	<1.0	ug/L	NC	20
B153628	Dissolved Cobalt (Co)	2023/10/16	92	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
B153628	Dissolved Copper (Cu)	2023/10/16	91	80 - 120	95	80 - 120	<0.20	ug/L	2.1	20
B153628	Dissolved Iron (Fe)	2023/10/16	101	80 - 120	101	80 - 120	<5.0	ug/L	5.2	20
B153628	Dissolved Lead (Pb)	2023/10/16	95	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
B153628	Dissolved Lithium (Li)	2023/10/16	89	80 - 120	96	80 - 120	<2.0	ug/L	NC	20
B153628	Dissolved Manganese (Mn)	2023/10/16	90	80 - 120	94	80 - 120	<1.0	ug/L	3.4	20
B153628	Dissolved Molybdenum (Mo)	2023/10/16	96	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
B153628	Dissolved Nickel (Ni)	2023/10/16	94	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
B153628	Dissolved Selenium (Se)	2023/10/16	99	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
B153628	Dissolved Silicon (Si)	2023/10/16	106	80 - 120	107	80 - 120	<100	ug/L	2.0	20
B153628	Dissolved Silver (Ag)	2023/10/16	95	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
B153628	Dissolved Strontium (Sr)	2023/10/16	89	80 - 120	95	80 - 120	<1.0	ug/L	1.1	20
B153628	Dissolved Thallium (Tl)	2023/10/16	94	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
B153628	Dissolved Tin (Sn)	2023/10/16	94	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
B153628	Dissolved Titanium (Ti)	2023/10/16	97	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
B153628	Dissolved Uranium (U)	2023/10/16	97	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
B153628	Dissolved Vanadium (V)	2023/10/16	92	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
B153628	Dissolved Zinc (Zn)	2023/10/16	98	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
B153628	Dissolved Zirconium (Zr)	2023/10/16	95	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
B154921	Dissolved Mercury (Hg)	2023/10/16	100	80 - 120	95	80 - 120	<0.0019	ug/L	NC	20
B154930	Total Mercury (Hg)	2023/10/16	83	80 - 120	94	80 - 120	<0.0019	ug/L	NC	20
B154937	Total Mercury (Hg)	2023/10/16	91	80 - 120	92	80 - 120	<0.0019	ug/L	NC	20
B155227	Dissolved Mercury (Hg)	2023/10/16	98	80 - 120	95	80 - 120	<0.0019	ug/L	NC	20
B155388	Chloride (Cl)	2023/10/18	NC	80 - 120	98	80 - 120	<1.0	mg/L	1.2	20
B155388	Sulphate (SO4)	2023/10/18	96	80 - 120	96	80 - 120	<1.0	mg/L	3.5	20
B155956	Total Ammonia (N)	2023/10/16	118	80 - 120	106	80 - 120	<0.015	mg/L	NC	20



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B155964	Total Ammonia (N)	2023/10/16	110	80 - 120	106	80 - 120	<0.015	mg/L	11	20
B156274	* Total of Fatty Acids Detected	2023/10/18					<0.072	mg/L	NC	30
B156274	* Total of Resin Acids Detected	2023/10/18					<0.060	mg/L	NC	30
B156274	12,14-dichlorodehydroabiatic acid	2023/10/18	115	50 - 130	105	50 - 130	<0.0060	mg/L	NC	30
B156274	12-chlorodehydroabiatic acid	2023/10/18	102	50 - 130	88	50 - 130	<0.0060	mg/L	NC	30
B156274	14-chlorodehydroabiatic acid	2023/10/18	95	50 - 130	81	50 - 130	<0.0060	mg/L	NC	30
B156274	9,10-dichlorostearic acid (C18)	2023/10/18	80	50 - 130	94	50 - 130	<0.0060	mg/L	NC	30
B156274	Abietic acid	2023/10/18	98	50 - 130	86	50 - 130	<0.0060	mg/L	NC	30
B156274	Decanoic acid (C10)	2023/10/18	94	50 - 130	86	50 - 130	<0.0060	mg/L	NC	30
B156274	Dehydroabiatic acid	2023/10/18	114	50 - 130	108	50 - 130	<0.0060	mg/L	NC	30
B156274	Docosanoic acid (C22)	2023/10/18	129	50 - 130	114	50 - 130	<0.0060	mg/L	NC	30
B156274	Dodecanoic acid (C12)	2023/10/18	99	50 - 130	90	50 - 130	<0.0060	mg/L	NC	30
B156274	Eicosanoic acid (C20)	2023/10/18	121	50 - 130	109	50 - 130	<0.0060	mg/L	NC	30
B156274	Hexadecanoic acid (C16)	2023/10/18	92	50 - 130	117	50 - 130	<0.0070 (2)	mg/L	NC	30
B156274	Isopimaric acid	2023/10/18	95	50 - 130	92	50 - 130	<0.0060	mg/L	NC	30
B156274	Linoleic acid (C18:2)	2023/10/18	109	50 - 130	102	50 - 130	<0.0060	mg/L	NC	30
B156274	Linolenic acid (C18:3)	2023/10/18	71	50 - 130	69	50 - 130	<0.0060	mg/L	NC	30
B156274	Neoabiatic acid	2023/10/18	81	50 - 130	82	50 - 130	<0.0060	mg/L	NC	30
B156274	Octadecanoic acid (C18)	2023/10/18	128	50 - 130	116	50 - 130	<0.0060	mg/L	NC	30
B156274	Oleic acid (C18:1)	2023/10/18	113	50 - 130	108	50 - 130	<0.0060	mg/L	NC	30
B156274	Palustric acid	2023/10/18	56	50 - 130	64	50 - 130	<0.0060	mg/L	NC	30
B156274	Pimaric acid	2023/10/18	92	50 - 130	95	50 - 130	<0.0060	mg/L	NC	30
B156274	Sandaracopimaric acid	2023/10/18	80	50 - 130	93	50 - 130	<0.0060	mg/L	NC	30
B156274	Tetradecanoic acid (C14)	2023/10/18	126	50 - 130	95	50 - 130	<0.0060	mg/L	NC	30
B156274	Undecanoic acid (C11)	2023/10/18	104	50 - 130	98	50 - 130	<0.0060	mg/L	NC	30
B156938	1-Methylnaphthalene	2023/10/18	104	50 - 140	95	50 - 140	<0.050	ug/L	15	40
B156938	2-Methylnaphthalene	2023/10/18	102	50 - 140	93	50 - 140	<0.10	ug/L	8.5	40
B156938	Acenaphthene	2023/10/18	104	50 - 140	93	50 - 140	<0.050	ug/L	0.67	40
B156938	Acenaphthylene	2023/10/18	106	50 - 140	96	50 - 140	<0.050	ug/L	NC	40
B156938	Acridine	2023/10/18	87	50 - 140	98	50 - 140	<0.050	ug/L	NC	40
B156938	Anthracene	2023/10/18	113	50 - 140	99	50 - 140	<0.010	ug/L	NC	40
B156938	Benzo(a)anthracene	2023/10/18	113	50 - 140	105	50 - 140	<0.010	ug/L	NC	40
B156938	Benzo(a)pyrene	2023/10/18	99	50 - 140	94	50 - 140	<0.0050	ug/L	NC	40





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B156938	Benzo(b&j)fluoranthene	2023/10/18	98	50 - 140	91	50 - 140	<0.030	ug/L	NC	40
B156938	Benzo(g,h,i)perylene	2023/10/18	78	50 - 140	82	50 - 140	<0.050	ug/L	NC	40
B156938	Benzo(k)fluoranthene	2023/10/18	106	50 - 140	95	50 - 140	<0.050	ug/L	NC	40
B156938	Chrysene	2023/10/18	114	50 - 140	105	50 - 140	<0.020	ug/L	NC	40
B156938	Dibenz(a,h)anthracene	2023/10/18	84	50 - 140	88	50 - 140	<0.0030	ug/L	NC	40
B156938	Fluoranthene	2023/10/18	103	50 - 140	93	50 - 140	<0.020	ug/L	NC	40
B156938	Fluorene	2023/10/18	100	50 - 140	91	50 - 140	<0.050	ug/L	1.3	40
B156938	Indeno(1,2,3-cd)pyrene	2023/10/18	84	50 - 140	89	50 - 140	<0.050	ug/L	NC	40
B156938	Naphthalene	2023/10/18	108	50 - 140	98	50 - 140	<0.10	ug/L	12	40
B156938	Phenanthrene	2023/10/18	107	50 - 140	97	50 - 140	<0.050	ug/L	NC	40
B156938	Pyrene	2023/10/18	105	50 - 140	94	50 - 140	<0.020	ug/L	NC	40
B156938	Quinoline	2023/10/18	113	50 - 140	105	50 - 140	<0.020	ug/L	NC	40
B157557	1-Methylnaphthalene	2023/10/18	NC	50 - 140	94	50 - 140	<0.050	ug/L	1.7	40
B157557	2-Methylnaphthalene	2023/10/18	NC	50 - 140	92	50 - 140	<0.10	ug/L	15	40
B157557	Acenaphthene	2023/10/18	91	50 - 140	96	50 - 140	<0.050	ug/L	1.1	40
B157557	Acenaphthylene	2023/10/18	89	50 - 140	94	50 - 140	<0.050	ug/L	3.7	40
B157557	Acridine	2023/10/18	102	50 - 140	106	50 - 140	<0.050	ug/L	NC	40
B157557	Anthracene	2023/10/18	95	50 - 140	100	50 - 140	<0.010	ug/L	7.8	40
B157557	Benzo(a)anthracene	2023/10/18	87	50 - 140	89	50 - 140	<0.010	ug/L	NC	40
B157557	Benzo(a)pyrene	2023/10/18	90	50 - 140	95	50 - 140	<0.0050	ug/L	NC	40
B157557	Benzo(b&j)fluoranthene	2023/10/18	85	50 - 140	90	50 - 140	<0.030	ug/L	NC	40
B157557	Benzo(g,h,i)perylene	2023/10/18	84	50 - 140	91	50 - 140	<0.050	ug/L	NC	40
B157557	Benzo(k)fluoranthene	2023/10/18	87	50 - 140	92	50 - 140	<0.050	ug/L	NC	40
B157557	Chrysene	2023/10/18	91	50 - 140	94	50 - 140	<0.020	ug/L	NC	40
B157557	Dibenz(a,h)anthracene	2023/10/18	83	50 - 140	91	50 - 140	<0.0030	ug/L	NC	40
B157557	Fluoranthene	2023/10/18	73	50 - 140	77	50 - 140	<0.020	ug/L	17	40
B157557	Fluorene	2023/10/18	91	50 - 140	96	50 - 140	<0.050	ug/L	1.2	40
B157557	Indeno(1,2,3-cd)pyrene	2023/10/18	85	50 - 140	93	50 - 140	<0.050	ug/L	NC	40
B157557	Naphthalene	2023/10/18	NC	50 - 140	94	50 - 140	<0.10	ug/L	1.2	40
B157557	Phenanthrene	2023/10/18	90	50 - 140	95	50 - 140	<0.050	ug/L	7.3	40
B157557	Pyrene	2023/10/18	73	50 - 140	77	50 - 140	<0.020	ug/L	NC	40
B157557	Quinoline	2023/10/18	114	50 - 140	108	50 - 140	<0.020	ug/L	NC	40
B161243	Aldicarb	2023/10/17	81	30 - 130	86	30 - 130	<5.0	ug/L		



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B161243	Atrazine	2023/10/17	92	30 - 130	96	30 - 130	<1.0	ug/L		
B161243	Bendiocarb	2023/10/17	87	30 - 130	87	30 - 130	<2.0	ug/L		
B161243	Carbaryl	2023/10/17	94	30 - 130	94	30 - 130	<5.0	ug/L		
B161243	Carbofuran	2023/10/17	89	30 - 130	91	30 - 130	<5.0	ug/L		
B161243	Chlorpyrifos (Dursban)	2023/10/17	84	30 - 130	85	30 - 130	<2.0	ug/L		
B161243	Cyanazine (Bladex)	2023/10/17	95	30 - 130	96	30 - 130	<5.0	ug/L		
B161243	Demeton-S	2023/10/17	74	30 - 130	79	30 - 130	<2.0	ug/L		
B161243	Diazinon	2023/10/17	87	30 - 130	90	30 - 130	<2.0	ug/L		
B161243	Dichlorvos	2023/10/17	57	30 - 130	73	30 - 130	<2.0	ug/L		
B161243	Dimethoate	2023/10/17	88	30 - 130	87	30 - 130	<2.0	ug/L		
B161243	Ethion	2023/10/17	88	30 - 130	87	30 - 130	<1.0	ug/L		
B161243	Fenchlorphos (Ronnel)	2023/10/17	86	30 - 130	87	30 - 130	<2.0	ug/L		
B161243	Fenthion	2023/10/17	86	30 - 130	87	30 - 130	<1.0	ug/L		
B161243	Fonofos	2023/10/17	80	30 - 130	84	30 - 130	<2.0	ug/L		
B161243	Guthion (Azinphos-methyl)	2023/10/17	83	30 - 130	79	30 - 130	<1.0	ug/L		
B161243	Malathion	2023/10/17	91	30 - 130	92	30 - 130	<2.0	ug/L		
B161243	Metolachlor	2023/10/17	86	30 - 130	87	30 - 130	<5.0	ug/L		
B161243	Mevinphos (Phosdrin)	2023/10/17	77	30 - 130	83	30 - 130	<2.0	ug/L		
B161243	Parathion Ethyl	2023/10/17	87	30 - 130	85	30 - 130	<2.0	ug/L		
B161243	Parathion methyl	2023/10/17	87	30 - 130	88	30 - 130	<2.0	ug/L		
B161243	Phorate (Thimet)	2023/10/17	77	30 - 130	86	30 - 130	<1.0	ug/L		
B161243	Phosmet	2023/10/17	88	30 - 130	86	30 - 130	<2.0	ug/L		
B161243	Prometryn	2023/10/17	92	30 - 130	92	30 - 130	<1.0	ug/L		
B161243	Simazine	2023/10/17	86	30 - 130	90	30 - 130	<2.0	ug/L		
B161243	Terbufos	2023/10/17	77	30 - 130	84	30 - 130	<1.0	ug/L		
B161243	Triallate	2023/10/17	80	30 - 130	85	30 - 130	<5.0	ug/L		
B161243	Trifluralin	2023/10/17	78	30 - 130	81	30 - 130	<5.0	ug/L		
B161499	2,4,5-T	2023/10/17	108	10 - 130	77	10 - 130	<0.50	ug/L		
B161499	2,4,5-TP	2023/10/17	110	10 - 130	99	10 - 130	<0.50	ug/L		
B161499	2,4-D (BEE)	2023/10/17	110	10 - 130	107	10 - 130	<0.50	ug/L		
B161499	2,4-D	2023/10/17	105	10 - 130	74	10 - 130	<0.50	ug/L		
B161499	2,4-DB	2023/10/17	104	10 - 130	101	10 - 130	<0.50	ug/L		
B161499	Dicamba	2023/10/17	103	10 - 130	86	10 - 130	<0.50	ug/L		



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B161499	Dichlorprop	2023/10/17	104	10 - 130	94	10 - 130	<0.50	ug/L		
B161499	MCPA	2023/10/17	106	10 - 130	89	10 - 130	<0.50	ug/L		
B161499	MCPD	2023/10/17	104	10 - 130	98	10 - 130	<0.50	ug/L		
B161499	Picloram	2023/10/17	75	10 - 130	43	10 - 130	<0.50	ug/L		
B161500	Ametryn	2023/10/17	94	40 - 130	97	40 - 130	<3	ug/L		
B161500	Atrazine	2023/10/17	92	40 - 130	95	40 - 130	<1	ug/L		
B161500	Cyanazine (Bladex)	2023/10/17	102	40 - 130	95	40 - 130	<3	ug/L		
B161500	Metribuzin (Sencor)	2023/10/17	91	40 - 130	88	40 - 130	<3	ug/L		
B161500	Prometon	2023/10/17	91	40 - 130	95	40 - 130	<0.5	ug/L		
B161500	Prometryn	2023/10/17	98	40 - 130	96	40 - 130	<3	ug/L		
B161500	Propazine	2023/10/17	94	40 - 130	96	40 - 130	<3	ug/L		
B161500	Simazine	2023/10/17	94	40 - 130	97	40 - 130	<3	ug/L		
B161500	Simetryn	2023/10/17	92	40 - 130	95	40 - 130	<0.5	ug/L		
B161500	Terbutryne	2023/10/17	98	40 - 130	98	40 - 130	<0.5	ug/L		
B161501	a-BHC	2023/10/19			77	30 - 130	<0.005	ug/L	6.5	40
B161501	a-Chlordane	2023/10/19			83	50 - 130	<0.005	ug/L	5.6	30
B161501	Aldrin	2023/10/19			79	50 - 130	<0.005	ug/L	4.6	30
B161501	Aroclor 1016	2023/10/19					<0.05	ug/L		
B161501	Aroclor 1221	2023/10/19					<0.05	ug/L		
B161501	Aroclor 1232	2023/10/19					<0.05	ug/L		
B161501	Aroclor 1242	2023/10/19					<0.05	ug/L		
B161501	Aroclor 1248	2023/10/19					<0.05	ug/L		
B161501	Aroclor 1254	2023/10/19					<0.05	ug/L		
B161501	Aroclor 1260	2023/10/19					<0.05	ug/L		
B161501	b-BHC	2023/10/19			70	30 - 130	<0.005	ug/L	6.8	40
B161501	d-BHC	2023/10/19			71	30 - 130	<0.005	ug/L	7.5	40
B161501	Dieldrin	2023/10/19			87	50 - 130	<0.005	ug/L	7.2	30
B161501	Endosulfan I	2023/10/19			94	50 - 130	<0.005	ug/L	1.4	30
B161501	Endosulfan II	2023/10/19			78	50 - 130	<0.005	ug/L	10	30
B161501	Endosulfan Sulfate	2023/10/19			88	30 - 130	<0.005	ug/L	7.3	40
B161501	Endrin Aldehyde	2023/10/19			63	30 - 130	<0.005	ug/L	5.6	40
B161501	Endrin ketone	2023/10/19			84	30 - 130	<0.005	ug/L	8.0	40
B161501	Endrin	2023/10/19			85	50 - 130	<0.005	ug/L	8.2	30



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Comox Valley Regional District

Your P.O. #: PENDING

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B161501	g-Chlordane	2023/10/19			83	50 - 130	<0.005	ug/L	5.8	30
B161501	Heptachlor Epoxide	2023/10/19			82	50 - 130	<0.005	ug/L	7.0	30
B161501	Heptachlor	2023/10/19			78	50 - 130	<0.005	ug/L	4.7	30
B161501	Hexachlorobenzene	2023/10/19			80	50 - 130	<0.005	ug/L	3.9	30
B161501	Lindane	2023/10/19			90	50 - 130	<0.003	ug/L	6.3	30
B161501	Methoxychlor	2023/10/19			70	50 - 130	<0.01	ug/L	13	30
B161501	Mirex	2023/10/19			88	30 - 130	<0.005	ug/L	4.7	40
B161501	o,p'-DDD	2023/10/19			90	50 - 130	<0.005	ug/L	7.0	30
B161501	o,p'-DDE	2023/10/19			100	50 - 130	<0.005	ug/L	4.6	30
B161501	o,p'-DDT	2023/10/19			82	50 - 130	<0.005	ug/L	7.7	30
B161501	Octachlorostyrene	2023/10/19			85	30 - 130	<0.005	ug/L	4.1	40
B161501	Oxychlordane	2023/10/19			81	30 - 130	<0.005	ug/L	5.5	30
B161501	p,p'-DDD	2023/10/19			85	50 - 130	<0.005	ug/L	9.5	30
B161501	p,p'-DDE	2023/10/19			85	50 - 130	<0.005	ug/L	10	30
B161501	p,p'-DDT	2023/10/19			74	50 - 130	<0.005	ug/L	11	30
B161501	Toxaphene	2023/10/19					<0.2	ug/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Detection limit raised due to interferent.



BUREAU  
VERITAS

Bureau Veritas Job #: C382284  
Report Date: 2023/10/24

Comox Valley Regional District  
Your P.O. #: PENDING

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

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Anastassia Hamanov, Scientific Specialist

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Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics



Bureau Veritas Proprietary Software  
Logiciel Propriétaire de Bureau Veritas

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Automated Statchk

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Food laboratory operations.



INVOICE TO:		Report Information		Project Information	
Company Name	#5935 Comox Valley Regional District	Company Name	#38215 Comox Valley Regional District	Quotation #	C30041
Contact Name	Crystal Stuart	Contact Name	Crystal Stuart	P.O. #	
Address	770 Harmston Avenue Courtenay BC V9N 0G8	Address	3699 Bevan Rd Cumberland BC V0R 1W0	Project #	
Phone	Fax: (250) 339-5239	Phone	Fax:	Project Name	
Email	cstuart@comoxvalleyrd.ca	Email	cstuart@comoxvalleyrd.ca	Site #	
				Sampled By	



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Bottle Order #: 707160

Project Manager

Customer Solutions

Regulatory Criteria:		Special Instructions	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:			
<input type="checkbox"/> CSR	<input type="checkbox"/> CCME	Short Hold times											Please provide advance notice for rush projects			
<input type="checkbox"/> BC Water Quality	<input type="checkbox"/> Other												Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.			
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS													Job Specific Rush TAT (if applies to entire submission)			
													1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____			
													Rush Confirmation Number: _____ (call lab for #)			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)	Village of Tahsis Groundwater									# of Bottles	Comments
1	WG-101123-CS-03	11-Oct-23	0735	Water	X											Short Hold times
2	↓ ↓ ↓ 04		0830		X											
3	↓ ↓ ↓ 05		0835		X											Samples Filtered and preservatives indicated on bottles
4	↓ ↓ ↓ 06		0800		X											
5	↓ ↓ ↓ 07		0910		X											
6	WG-101123-CS-08	11-Oct-23	0950	Water	X											
7	WG-101123-CS-09	11-Oct-23	1020	Water	X											
8	WG-101123-CS-10	11-Oct-23	1110	Water	X											
9																
10																

RELINQUISHED BY: (Signature/Print) C Stuart	Date: (YY/MM/DD) 23/10/11	Time 1300	RECEIVED BY: (Signature/Print) CST	Date: (YY/MM/DD) 23/10/11	Time 14:35	# jars used and not submitted	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt See ACTR	Lab Use Only Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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\* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

\* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.



### ADDITIONAL COOLER TEMPERATURE RECORD

#### CHAIN-OF-CUSTODY RECORD

C382284\_COC

CHAIN OF CUSTODY #		ACTIONS:		BV JOB#:				
Page <u>1</u> of <u>1</u>	707160	CUSTODY SEAL	YES	NO	COOLER ID			
		PRESENT		<input checked="" type="checkbox"/>	TEMP	9	9	8
		INTACT		<input checked="" type="checkbox"/>		1	2	3
		ICE PRESENT	<input checked="" type="checkbox"/>					
Page ___ of ___		CUSTODY SEAL	YES	NO	COOLER ID			
		PRESENT		<input checked="" type="checkbox"/>	TEMP	9	9	7
		INTACT		<input checked="" type="checkbox"/>		1	2	3
		ICE PRESENT	<input checked="" type="checkbox"/>					
Page ___ of ___		CUSTODY SEAL	YES	NO	COOLER ID			
		PRESENT		<input checked="" type="checkbox"/>	TEMP	10	11	8
		INTACT		<input checked="" type="checkbox"/>		1	2	3
		ICE PRESENT	<input checked="" type="checkbox"/>					
Page ___ of ___		CUSTODY SEAL	YES	NO	COOLER ID			
		PRESENT		<input checked="" type="checkbox"/>	TEMP	7	9	C
		INTACT		<input checked="" type="checkbox"/>		1	2	3
		ICE PRESENT	<input checked="" type="checkbox"/>					

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
CST	2023/10/11	14:40