

**CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT  
5031 MOUNTAIN VIEW ROAD  
BOWSER, BC V0R1G0  
(250) 757-9312**

**ATTENTION TO: Leslie carter**

**PROJECT: YEAR 3**

**AGAT WORK ORDER: 21V845050**

**MICROBIOLOGY ANALYSIS REVIEWED BY: Vicky Tsui, Vicky Tsui, Laboratory Supervisor**

**TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Lab Manager**

**WATER ANALYSIS REVIEWED BY: Vicky Tsui, Vicky Tsui, Laboratory Supervisor**

**DATE REPORTED: Jan 14, 2022**

**PAGES (INCLUDING COVER): 22**

**VERSION\*: 1**

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

**\*Notes**

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- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.



## Certificate of Analysis

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PROJECT: YEAR 3

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SAMPLING SITE:

SAMPLED BY:

### Heterotrophic Plate Count

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

		SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45
Parameter	Unit	G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960
Heterotrophic Plate Count (HPC)	CFU/mL		1	<1	<1	<1	<1	<1	<1	<1

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard  
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### Total Coliforms and E.Coli by Enzyme Substrate

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8		
SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water		
DATE SAMPLED:		2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45		
Parameter	Unit	G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960
Total Coliforms	MPN/100mL	1	<1.8	<1.8	<1.8	2	<1.8	<1.8	<1.8	<1.8
Escherichia Coli (E.coli)	MPN/100mL	1	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

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### THMs in Water (µg/L)

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

Parameter	Unit	SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:		2021-12-14		2021-12-14	2021-12-14	2021-12-14	2021-12-14	2021-12-14	2021-12-14	2021-12-14
		08:00		08:00	08:15	08:30	08:45	09:00	09:30	09:45
Surrogate		Acceptable Limits		3345533	3345955	3345956	3345957	3345958	3345959	3345960
Chloroform	µg/L	100	1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	100	1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/L	100	1	<1	<1	<1	<1	<1	<1	<1
Bromoform	µg/L	100	1	<1	<1	<1	<1	<1	<1	<1
Total Trihalomethanes	µg/L	100	2	<2	<2	<2	<2	<2	<2	<2
Bromofluorobenzene	%	70-130		90.0	80.0	79.8	80.2	79.8	77.7	80.8
Dibromofluoromethane	%	70-130		107.8	103.1	105.7	109.7	112.1	109.1	111.8
Toluene - d8	%	70-130		105.1	95.6	95.9	99.1	97.9	97.2	97.7

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR Schedule 3.2 - Drinking Water in ug/L  
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

**3345533-3345960** Total Trihalomethanes is a calculated parameter. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.  
Upon receipt, THM sample contained significant headspace.

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### Anion Scan in Water (mg/L)

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

Parameter	Unit	SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45
		G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960
Chloride	mg/L	250	0.05	1.30	1.50	1.20	1.31	2.91	1.19	2.04
Nitrate-N	mg/L	10	0.005	0.032	0.006	0.040	0.066	0.140	0.112	0.129
Nitrite-N	mg/L	1	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate	mg/L	500	0.5	0.7	<0.5	1.0	1.0	0.7	0.7	0.6
Fluoride	mg/L	1.5	0.02	<0.02	<0.02	<0.02	<0.02	0.07	0.07	0.07
Bromide	mg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR Schedule 3.2 - Drinking Water in mg/L  
 Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

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### B.C. PCT Analysis

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

Parameter	Unit	SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45
		G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960
pH	pH Units	NA	7.39	7.11	7.36	7.36	7.58	7.62	7.56	
p - Alkalinity (as CaCO3)	mg/L CaCO3/L	1	<1	<1	<1	<1	<1	<1	<1	
Alkalinity (pH 4.5)	mg CaCO3/L	1	33	21	41	33	42	46	41	
Alkalinity, Bicarbonate	mg CaCO3/L	1	40	26	50	40	51	57	50	
Alkalinity, Carbonate	mg CaCO3/L	1	<1	<1	<1	<1	<1	<1	<1	
Alkalinity, Hydroxide	mg CaCO3/L	1	<1	<1	<1	<1	<1	<1	<1	
Electrical Conductivity	uS/cm	1	72	44	79	76	100	103	90	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3345533-3345960 < - Values refer to Report Detection Limits.

If sodium results in mg/L are less than detection, SAR is non-calculable and is reported as 0.

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CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

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### BC CSR Omnibus Dissolved Metals in Water (mg/L)

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

Parameter	Unit	SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
				DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:
				2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45
				3345533	3345955	3345956	3345957	3345958	3345959	3345960
Aluminum Dissolved	mg/L	9.5	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony Dissolved	mg/L	0.006	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic Dissolved	mg/L	0.01	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001
Barium Dissolved	mg/L	1	0.0002	0.0008	<0.0002	0.0007	0.0005	0.0016	0.0015	0.0014
Beryllium Dissolved	mg/L	0.008	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Boron Dissolved	mg/L	5	0.002	0.002	<0.002	0.002	0.003	0.003	0.003	0.003
Cadmium Dissolved	mg/L	0.005	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Calcium Dissolved	mg/L		0.05	8.66	4.99	9.61	8.98	11.2	11.9	10.3
Chromium Dissolved	mg/L		0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	0.0007	0.0008
Cobalt Dissolved	mg/L	0.001	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Copper Dissolved	mg/L	1.5	0.0002	0.0011	0.0061	0.0011	0.0003	0.0002	0.0004	0.0008
Iron Dissolved	mg/L	6.5	0.01	0.05	0.42	0.04	<0.01	0.04	0.02	<0.01
Lead Dissolved	mg/L	0.01	0.00005	0.00039	0.00239	0.00033	<0.00005	<0.00005	<0.00005	<0.00005
Lithium Dissolved	mg/L	0.008	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Magnesium Dissolved	mg/L		0.05	2.03	0.98	2.30	2.28	3.67	3.84	3.20
Manganese Dissolved	mg/L	1.5	0.001	<0.001	0.003	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum Dissolved	mg/L	0.25	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00009	0.00009	0.00006
Nickel Dissolved	mg/L	0.08	0.0002	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002
Potassium Dissolved	mg/L		0.05	0.30	0.20	0.23	0.28	0.42	0.41	0.43
Selenium Dissolved	mg/L	0.01	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silver Dissolved	mg/L	0.02	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Sodium Dissolved	mg/L	200	0.05	2.47	2.12	2.92	3.03	2.91	2.91	2.85
Strontium Dissolved	mg/L	2.5	0.0001	0.0215	0.0256	0.0271	0.0266	0.0261	0.0285	0.0251
Thallium Dissolved	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Tin Dissolved	mg/L	2.5	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Titanium Dissolved	mg/L		0.0005	0.0018	0.0008	0.0016	0.0013	0.0011	0.0011	0.0011
Tungsten Dissolved	mg/L	0.003	0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Uranium Dissolved	mg/L	0.02	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	0.00001	0.00001
Vanadium Dissolved	mg/L	0.02	0.0005	0.0012	0.0009	0.0014	0.0011	0.0022	0.0025	0.0019

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ATTENTION TO: Leslie carter

SAMPLING SITE:

SAMPLED BY:

### BC CSR Omnibus Dissolved Metals in Water (mg/L)

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

Parameter	Unit	SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
				2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45
				3345533	3345955	3345956	3345957	3345958	3345959	3345960
Zinc Dissolved	mg/L	3	0.002	0.037	0.013	0.012	<0.002	0.002	<0.002	0.003
Filter for Dissolved Metals(Van)				field	field	field	field	field	field	field
Hardness (calc)	mg CaCO3/L		0.5	30.0	16.5	33.5	31.8	43.1	45.5	38.9

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR Schedule 3.2 - Drinking Water in mg/L  
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### Nitrogen, Total (mg/L)

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8		
SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water		
DATE SAMPLED:		2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45		
Parameter	Unit	G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960
Nitrogen - Total	mg/L	0.05	<0.05	<0.05	<0.05	0.06	0.13	0.12	0.12	

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR Schedule 3.2 - Drinking Water in mg/L  
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### Physical Tests Package

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

		SAMPLE DESCRIPTION:		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45
Parameter	Unit	G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960
Turbidity	NTU		0.1	1.0	5.8	1.2	0.2	0.7	0.4	<0.1

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3345533-3345960 Literature holding time exceeded for pH analysis.

Analysis performed at AGAT Vancouver (unless marked by \*)

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### Tannins and Lignins in Water (mg/L)

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

		SAMPLE DESCRIPTION:								
		Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8		
		Water	Water	Water	Water	Water	Water	Water	Water	
		2021-12-14	2021-12-14	2021-12-14	2021-12-14	2021-12-14	2021-12-14	2021-12-14	2021-12-14	
		08:00	08:15	08:30	08:45	09:00	09:30	09:45		
Parameter	Unit	G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960
Tannin & Lignin as Tannic Acid	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Vancouver (unless marked by \*)

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### Water Analysis - TDS, NH3, T-P

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

Parameter	Unit	SAMPLE DESCRIPTION:								
				Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30	2021-12-14 09:45
G / S	RDL	3345533	3345955	3345956	3345957	3345958	3345959	3345960		
TDS	mg/L	5	75	15	85	<5	45	60	60	
Ammonia, Total (as N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Total Phosphorus	mg/L	0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Edmonton (unless marked by \*)

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Unit 120, 8600 Glenlyon Parkway  
 Burnaby, British Columbia  
 CANADA V5J 0B6  
 TEL (778)452-4000  
 FAX (778)452-4074  
<http://www.agatlabs.com>

CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: Leslie carter

SAMPLING SITE:

SAMPLED BY:

### Water Analysis - TOC, DOC, Sulphide

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2022-01-14

Parameter	Unit	SAMPLE DESCRIPTION:								
		G / S	RDL	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #8
				Water	Water	Water	Water	Water	Water	Water
				DATE SAMPLED:	2021-12-14 08:00	2021-12-14 08:15	2021-12-14 08:30	2021-12-14 08:45	2021-12-14 09:00	2021-12-14 09:30
		3345533	3345955	3345956	3345957	3345958	3345959	3345960		
Total Organic Carbon	mg/L	5	704	672	685	711	661	762	696	
Dissolved Organic Carbon (DOC)	mg/L	5	658	701	782	725	642	739	663	
Sulfide	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Calgary (unless marked by \*)

Certified By:

## Quality Assurance

**CLIENT NAME:** DEEP BAY IMPROVEMENT DISTRICT  
**PROJECT:** YEAR 3  
**SAMPLING SITE:**

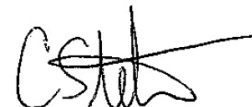
**AGAT WORK ORDER:** 21V845050  
**ATTENTION TO:** Leslie carter  
**SAMPLED BY:**

### Trace Organics Analysis

RPT Date: Jan 14, 2022			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
<b>THMs in Water (µg/L)</b>																
Chloroform	76322	3371856	<1	<1	NA	< 1	100%	80%	120%	101%	70%	130%	111%	70%	130%	
Bromodichloromethane	76322	3371856	<1	<1	NA	< 1	100%	80%	120%	102%	70%	130%	114%	70%	130%	
Dibromochloromethane	76322	3371856	<1	<1	NA	< 1	100%	80%	120%	100%	70%	130%	118%	70%	130%	
Bromoform	76322	3371856	<1	<1	NA	< 1	100%	80%	120%	97%	70%	130%	118%	70%	130%	
Bromofluorobenzene	76322	3371856	82.2	75.2	9.0%		108%	70%	130%	102%	70%	130%	119%	70%	130%	
Dibromofluoromethane	76322	3371856	99.2	98.8	0.5%		97%	70%	130%	99%	70%	130%	108%	70%	130%	
Toluene - d8	76322	3371856	96.2	92.4	4.0%		101%	70%	130%	97%	70%	130%	105%	70%	130%	

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

**Certified By:** \_\_\_\_\_



## Quality Assurance

**CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT**
**AGAT WORK ORDER: 21V845050**
**PROJECT: YEAR 3**
**ATTENTION TO: Leslie carter**
**SAMPLING SITE:**
**SAMPLED BY:**

Water Analysis															
RPT Date: Jan 14, 2022			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Anion Scan in Water (mg/L)**

Chloride	3345955		1.50	1.37	8.8%	< 0.05	101%	90%	110%	98%	90%	110%
Nitrate-N	3345955		0.006	<0.005	NA	< 0.005	96%	90%	110%	100%	90%	110%
Nitrite-N	3345955		<0.005	<0.005	NA	< 0.005				109%	90%	110%
Sulphate	3345955		<0.5	<0.5	NA	< 0.5	92%	90%	110%	99%	90%	110%
Fluoride	3345955		<0.02	<0.02	NA	< 0.02	91%	85%	115%	109%	90%	110%
Bromide	3345955		<0.05	<0.05	NA	< 0.05	105%	85%	115%	107%	90%	110%

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

**Physical Tests Package**

Turbidity	3345533		1.0	1.1	1.9%	< 0.1	96%	85%	115%	99%	85%	115%
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Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

**Nitrogen, Total (mg/L)**

Nitrogen - Total	3370280		13.1	12.8	2.2%	< 0.05	100%	85%	115%	110%	90%	110%
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**BC CSR Omnibus Dissolved Metals in Water (mg/L)**

Aluminum Dissolved	3345533		<0.002	<0.002	NA	< 0.002	102%	70%	130%	95%	85%	115%
Antimony Dissolved	3345533		<0.0002	<0.0002	NA	< 0.0002	112%	70%	130%	107%	85%	115%
Arsenic Dissolved	3345533		<0.0001	0.0003	NA	< 0.0001	103%	70%	130%	95%	85%	115%
Barium Dissolved	3345533		0.0008	0.0008	NA	< 0.0002	104%	70%	130%	100%	85%	115%
Beryllium Dissolved	3345533		<0.00001	<0.00001	NA	< 0.00001	110%	70%	130%	109%	85%	115%
Boron Dissolved	3345533		0.002	0.002	NA	< 0.002	87%	70%	130%	109%	85%	115%
Cadmium Dissolved	3345533		<0.00001	<0.00001	NA	< 0.00001	106%	70%	130%	100%	85%	115%
Calcium Dissolved	3345533		8.66	8.70	0.4%	< 0.05	99%	70%	130%	102%	85%	115%
Chromium Dissolved	3345533		0.0006	<0.0005	NA	< 0.0005	106%	70%	130%	106%	85%	115%
Cobalt Dissolved	3345533		<0.00005	<0.00005	NA	< 0.00005	110%	70%	130%	104%	85%	115%
Copper Dissolved	3345533		0.0011	0.0010	7.4%	< 0.0002	110%	70%	130%	105%	85%	115%
Iron Dissolved	3345533		0.05	0.05	4.4%	< 0.01	108%	70%	130%	103%	85%	115%
Lead Dissolved	3345533		0.00039	0.00036	7.3%	< 0.00005	107%	70%	130%	104%	85%	115%
Lithium Dissolved	3345533		<0.0005	<0.0005	NA	< 0.0005				102%	85%	115%
Magnesium Dissolved	3345533		2.03	2.04	0.5%	< 0.05	109%	70%	130%	101%	85%	115%
Manganese Dissolved	3345533		<0.001	<0.001	NA	< 0.001	103%	70%	130%	102%	85%	115%
Molybdenum Dissolved	3345533		<0.00005	<0.00005	NA	< 0.00005	106%	70%	130%	103%	85%	115%
Nickel Dissolved	3345533		<0.0002	<0.0002	NA	< 0.0002	110%	70%	130%	105%	85%	115%
Potassium Dissolved	3345533		0.30	0.28	6.4%	< 0.05	103%	70%	130%	101%	85%	115%
Selenium Dissolved	3345533		<0.0005	<0.0005	NA	< 0.0005	114%	70%	130%	105%	85%	115%
Silver Dissolved	3345533		<0.00002	<0.00002	NA	< 0.00002				96%	85%	115%
Sodium Dissolved	3345533		2.47	2.47	0.4%	< 0.05	102%	70%	130%	102%	85%	115%
Strontium Dissolved	3345533		0.0215	0.0216	0.1%	< 0.0001	102%	70%	130%	106%	85%	115%
Thallium Dissolved	3345533		<0.00001	<0.00001	NA	< 0.00001	110%	70%	130%	102%	85%	115%

## Quality Assurance

**CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT**
**AGAT WORK ORDER: 21V845050**
**PROJECT: YEAR 3**
**ATTENTION TO: Leslie carter**
**SAMPLING SITE:**
**SAMPLED BY:**

### Water Analysis (Continued)

RPT Date: Jan 14, 2022			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Tin Dissolved	3345533		<0.00005	<0.00005	NA	< 0.00005				105%	85%	115%				
Titanium Dissolved	3345533		0.0018	0.0014	NA	< 0.0005				99%	85%	115%				
Tungsten Dissolved	3345533		0.00001	< 0.00001	NA	< 0.00001				103%	85%	115%				
Uranium Dissolved	3345533		<0.00001	<0.00001	NA	< 0.00001	105%	70%	130%	106%	85%	115%				
Vanadium Dissolved	3345533		0.0012	0.0012	NA	< 0.0005	104%	70%	130%	102%	85%	115%				
Zinc Dissolved	3345533		0.037	0.037	0.4%	< 0.002	104%	70%	130%	106%	85%	115%				

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

**Tannins and Lignins in Water (mg/L)**

Tannin & Lignin as Tannic Acid	3345533		<0.1	<0.1	NA	< 0.1	85%	85%	115%	91%	90%	110%			
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**Water Analysis - TOC, DOC, Sulphide**

Total Organic Carbon	3345533	3345533	704	699	0.8%	< 1	93%	80%	120%	85%	80%	120%	NA	80%	120%
Dissolved Organic Carbon (DOC)	3345533	3345533	658	663	0.7%	< 1	93%	80%	120%	85%	80%	120%	NA	80%	120%
Sulfide	3345533	3345533	<0.02	<0.02	NA	< 0.02	99%	80%	120%	113%	80%	120%	106%	80%	120%

Comments: Matrix spike NA: Spike level &lt; native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Duplicate NA: results are less than 5X the RDL and RDP will not be calculated.

**Water Analysis - TDS, NH3, T-P**

TDS	352	3345533	75	80	6.5%	< 5	86%	80%	120%						
Ammonia, Total (as N)	351	3357255	0.63	0.63	1.0%	< 0.05	80%	70%	130%	114%	80%	120%	88%	70%	130%
Total Phosphorus	354	3345533	<0.08	<0.08	NA	< 0.08	86%	70%	130%	95%	80%	120%	82%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**B.C. PCT Analysis**

pH	355	3374687	7.84	7.85	0.1%		99%	90%	110%						
p - Alkalinity (as CaCO3)	355	3374687	<1	<1	NA	< 1									
Alkalinity (pH 4.5)	355	3374687	141	142	0.7%	< 1									
Alkalinity, Bicarbonate	355	3374687	172	173	0.6%	< 1									
Alkalinity, Carbonate	355	3374687	<1	<1	NA	< 1									
Alkalinity, Hydroxide	355	3374687	<1	<1	NA	< 1									
Electrical Conductivity	355	3374687	889	887	0.2%	< 1	106%	90%	110%						

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.

pH has been analyzed past the recommended holding time of 15 minutes from sampling (field measurement ideal if more accurate data required)

Nitrate and Nitrite: The regulatory hold time for the analysis of nitrate and/or nitrite in water is 72 hours.



## Quality Assurance

**CLIENT NAME:** DEEP BAY IMPROVEMENT DISTRICT  
**PROJECT:** YEAR 3  
**SAMPLING SITE:**

**AGAT WORK ORDER:** 21V845050  
**ATTENTION TO:** Leslie carter  
**SAMPLED BY:**

### Water Analysis (Continued)

RPT Date: Jan 14, 2022			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Certified By:** \_\_\_\_\_



## Method Summary

**CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT**
**AGAT WORK ORDER: 21V845050**
**PROJECT: YEAR 3**
**ATTENTION TO: Leslie carter**
**SAMPLING SITE:**
**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Microbiology Analysis</b>			
Heterotrophic Plate Count (HPC)	MIC-181-7002	SM 9125 E (IDEXX SimPlate®)	INCUBATOR
Total Coliforms	MIC-181-7004	SM 9223B	INCUBATOR
Escherichia Coli (E.coli)	MIC-181-7004	SM 9223B	INCUBATOR
<b>Trace Organics Analysis</b>			
Chloroform	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromodichloromethane	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromochloromethane	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromoform	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromofluorobenzene	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromofluoromethane	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene - d8	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Total Trihalomethanes	ORG-180-5131	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS

## Method Summary

**CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT**
**AGAT WORK ORDER: 21V845050**
**PROJECT: YEAR 3**
**ATTENTION TO: Leslie carter**
**SAMPLING SITE:**
**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Water Analysis</b>			
Chloride	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Nitrate-N	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Nitrite-N	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Fluoride	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Bromide	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
pH	INOR-171-6205	SM 4500 H+	PH METER
p - Alkalinity (as CaCO <sub>3</sub> )	INOR-171-6205	SM 2320 B	TITRATION
Alkalinity (pH 4.5)	INOR-171-6205	SM 2320 B	PC TITRATE
Alkalinity, Bicarbonate	INOR-171-6205	SM 2320 B	PC TITRATE
Alkalinity, Carbonate	INOR-171-6205	SM 2320 B	PC TITRATE
Alkalinity, Hydroxide	INOR-171-6205	SM 2320 B	TITRATION
Electrical Conductivity	INOR-171-6205	SM 2510 B	CONDUCTIVITY METER
Aluminum Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Antimony Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Arsenic Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Barium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Beryllium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Boron Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Cadmium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Calcium Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Chromium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Cobalt Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Copper Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Iron Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Lead Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Lithium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Magnesium Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Manganese Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Molybdenum Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Nickel Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Potassium Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Selenium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS



## Method Summary

**CLIENT NAME:** DEEP BAY IMPROVEMENT DISTRICT

**AGAT WORK ORDER:** 21V845050

**PROJECT:** YEAR 3

**ATTENTION TO:** Leslie carter

**SAMPLING SITE:**

**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Silver Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Sodium Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Strontium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Thallium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Tin Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Titanium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Tungsten Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Uranium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Vanadium Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Zinc Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Filter for Dissolved Metals(Van)			
Nitrogen - Total	INOR-181-6006	Modified from SM 4500-N	COMBUSTION
Turbidity	INOR-181-6008	SM 2130 B	NEPHELOMETER
Tannin & Lignin as Tannic Acid	INOR-181-6018	Modified from SM 5550 B	SPECTROPHOTOMETER
TDS	INOR-171-6104	SM 2540 C	GRAVIMETRIC
Ammonia, Total (as N)	INOR-171-6211	SM 4500-NH3 G	CONTINUOUS FLOW ANALYZER
Total Phosphorus	INOR-171-6100, 171-6201	SM 3030 E; SM 3120 B	ICP/OES
Total Organic Carbon	INST 0170	SM 5310 B	COMBUSTION
Dissolved Organic Carbon (DOC)	INST 0170	SM 5310 B	COMBUSTION
Sulfide	WATR 0100	SM 4500 S2- D	SPECTROPHOTOMETER



# AGAT Laboratories

120 - 8600 Glenlyon Parkway  
Burnaby, BC  
V5J 0B6

P: 778.452.4000 • F: 778.452.4074

## Laboratory Use Only

Arrival Temperature: 5°C

AGAT Job Number: 21V84505T

Notes: 15 DEC 21

## Chain of Custody Record

### Report Information

Company: Deep Bay Improvement District  
Contact: LESLIE CARTER  
Address: 5031 MOUNTAINVIEW RD  
BOWSER, BC V0R 1G0  
Phone: 250 757 9312 Fax: 757-9312  
AGAT Quote #: \_\_\_\_\_  
Client Project #: YEAR 3

### Report Information

1. Name: LESLIE CARTER  
Email: admin@dbid.ca  
2. Name: DON BUCHNER  
Email: donshome@shaw.ca

### Report Format

Single  
 Sample per Page  
 Multiple  
 Samples per Page  
 Excel Format Included

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 working days  
Rush TAT  Same Business Day - 200%  
 1 Business Day - 100%  
 2 Business Days - 50%  
 3 Business Days - 25%

Date Required: \_\_\_\_\_

PLEASE CONTACT LABORATORY IF RUSH REQUIRED SAMPLE SUBMISSION CUT OFF FOR EFFECTIVE DATE BY 3 PM

### Invoice To

Same as above Yes  No

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
PO/AFE#: \_\_\_\_\_

### Requirements (Please Check)

BC CSR Soil  BC CSR - Water  
 AL  DW  
 IL  AW  
 PL  IW  
 CL  LW  
 RL-LD  RL-HD  
 WL-N  WL-R

Schedule 3.3 (Please Specify) \_\_\_\_\_

CCME (Please Specify) \_\_\_\_\_

Other (Please Specify) metals in mg/L

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	Alk, Ammonia, pH, EC, Colour	Turbidity	TDS	Ammonia, Total Phosphorus	TAC / Total Nitrogen	Total Calcium, E. Coli + HPC	Diss Organic Carbon	Dissolved Metals (As, Ni, Cd, Pb, Cu, Zn)	Corrosiveness (calc)	Sulphide	Tannins + lignins	Trihalomethanes	Iron Related Products	Synthetic Peptides	Isotopes	NUMBER OF CONTAINERS	PRESERVED (Y/N)	HAZARDOUS (Y/N)
<u>8845533</u>	<u>WELL #1</u>	<u>WATER</u>	<u>Dec 14/21 8 AM</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<u>5955</u>	<u>WELL #2</u>	<u>WATER</u>	<u>Dec 14/21 8:15 AM</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<u>56</u>	<u>WELL #3</u>	<u>WATER</u>	<u>Dec 14/21 8:30 AM</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<u>57</u>	<u>WELL #4</u>	<u>WATER</u>	<u>Dec 14/21 8:45 AM</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<u>58</u>	<u>WELL #5</u>	<u>WATER</u>	<u>Dec 14/21 9 AM</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<u>59</u>	<u>WELL #6</u>	<u>WATER</u>	<u>Dec 14/21 9:30 AM</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
<u>60</u>	<u>WELL #8</u>	<u>WATER</u>	<u>Dec 14/21 9:45 AM</u>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

Samples Relinquished By (Print Name and Sign): <u>Don Buchner</u>	Date/Time: <u>10 AM Dec 14/21</u>	Samples Received By (Print Name and Sign):	Date/Time:	Page _____ of _____
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	No: <b>048496</b>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	



# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 21V845050

RECEIVING BASICS: Acc courier  
Received From: Deep Bay District Waybill #: \_\_\_\_\_

SAMPLE QUANTITIES:  
Coolers: 1 Containers: \_\_\_\_\_

TIME SENSITIVE ISSUES:  
Earliest Date Sampled: \_\_\_\_\_ ALREADY EXCEEDED? Yes No  
\_\_\_\_\_  
\_\_\_\_\_

NON-CONFORMANCES:  
3 temperatures of samples\* and average of each cooler: (record differing temperatures on the CoC next to sample ID's) \*use jars when available

(1) 4 + 7 + 5 = 5 °C (2) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C (3) \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C (4) \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C

Was ice or ice pack present:  Yes  No  
Integrity Issues: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No  
Whom spoken to: \_\_\_\_\_ Date and Time: \_\_\_\_\_

ADDITIONAL NOTES:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_