Your Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Your C.O.C. #: 1 of 1

**Attention: LINCOLN WELLER**

STANTEC CONSULTING LTD
#200, 325- 25TH ST. SE
CALGARY, AB
CANADA T2A 7H8

**Report Date: 2023/09/06**
Report #: R3391104
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C367277**
**Received: 2023/08/29, 11:52**

Sample Matrix: Water
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Alkalinity @25C (pp, total), CO3,HCO3,OH | 1 | N/A | 2023/09/02 | AB SOP-00005 | SM 24 2320 B m |
| BTEX/F1 in Water by HS GC/MS/FID | 1 | N/A | 2023/09/03 | AB SOP-00039 | CCME CWS/EPA 8260d m |
| F1-BTEX | 1 | N/A | 2023/09/04 | | Auto Calc |
| Cadmium - low level CCME - Dissolved | 1 | N/A | 2023/09/06 | | Auto Calc |
| Chloride/Sulphate by Auto Colourimetry | 1 | N/A | 2023/08/31 | AB SOP-00020 | SM24-4500-Cl/SO4-E m |
| Cyanide (total) | 1 | N/A | 2023/08/31 | CAL SOP-00270 | SM 23 4500-CN m |
| True Colour | 1 | N/A | 2023/08/31 | CAL SOP-00049 | SM 24 2120 C m |
| Conductivity @25C | 1 | N/A | 2023/09/02 | AB SOP-00005 | SM 24 2510 B m |
| Fluoride | 1 | N/A | 2023/09/02 | AB SOP-00005 | SM 24 4500-F C m |
| CCME Hydrocarbons in Water (F2; C10-C16) (1) | 1 | 2023/09/02 | 2023/09/02 | AB SOP-00037<br>AB SOP-00040 | CCME PHC-CWS m |
| Hardness | 1 | N/A | 2023/09/02 | | Auto Calc |
| Mercury (Dissolved) by CV (2) | 1 | 2023/09/01 | 2023/09/01 | AB SOP-00084 | BCMOE BCLM Oct2013 m |
| Elements by ICP - Dissolved (2) | 1 | N/A | 2023/09/01 | AB SOP-00042 | EPA 6010d R5 m |
| Elements by ICPMS - Dissolved (2) | 1 | N/A | 2023/09/01 | AB SOP-00043 | EPA 6020b R2 m |
| Elements by ICPMS - Dissolved (Ext List) | 1 | N/A | 2023/09/06 | AB SOP-00043 | EPA 6020b R2 m |
| Ion Balance | 1 | N/A | 2023/09/03 | | Auto Calc |
| Sum of cations, anions | 1 | N/A | 2023/09/02 | | Auto Calc |
| Nitrate and Nitrite | 1 | N/A | 2023/09/01 | | Auto Calc |
| NO2 (N); NO2 (N) + NO3 (N) in Water | 1 | N/A | 2023/08/31 | AB SOP-00091 | SM 24 4500 NO3m |
| Nitrate (as N) | 1 | 2023/08/30 | 2023/09/01 | | Auto Calc |
| Benzo[a]pyrene Equivalency (3) | 1 | N/A | 2023/09/05 | | Auto Calc |
| PAH in Water by GC/MS | 1 | 2023/09/02 | 2023/09/03 | AB SOP-00037 / AB SOP-00003 | EPA 3510C/8270E m |
| pH @25°C (4) | 1 | N/A | 2023/09/02 | AB SOP-00005 | SM 24 4500-H+B m |
| Total Dissolved Solids (Calculated) | 1 | N/A | 2023/09/03 | | Auto Calc |
| Total Kjeldahl Nitrogen (Total) | 1 | N/A | 2023/09/01 | BBY WI-00033 | Auto Calc |
| Nitrogen (Total) | 1 | 2023/08/31 | 2023/08/31 | AB SOP-00093 | SM 24 4500-N C m |
| Carbon (Total Organic) (5) | 1 | N/A | 2023/08/31 | AB SOP-00087 | MMCW 119 1996 m |
| Turbidity | 1 | N/A | 2023/08/29 | CAL SOP-00081 | SM 24 2130 B m |

**Remarks:**



Bureau Veritas Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone (403) 291-3077 Fax (403) 291-9468

Your Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Your C.O.C. #: 1 of 1

**Attention: LINCOLN WELLER**

STANTEC CONSULTING LTD
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CALGARY, AB
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**Report Date: 2023/09/06**
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Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C367277**
**Received: 2023/08/29, 11:52**

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.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
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) Silica gel clean up employed.
(2) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) B[a]P TPE is calculated using 1/2 of the RDL for non detect results as per Alberta Environment instructions. This protocol may not apply in other jurisdictions.
(4) 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.
(5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
06 Sep 2023 17:27:38

Please direct all questions regarding this Certificate of Analysis to:
Geraldlyn Gouthro, Key Account Specialist
Email: geraldlyn.gouthro@bureauveritas.com
Phone# (780)577-7173
==========
This report has been generated and distributed using a secure automated process.
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 Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.



Bureau Veritas Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone (403) 291-3077 Fax (403) 291-9468

Bureau Veritas Job #: C367277
Report Date: 2023/09/06

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

## RESULTS OF CHEMICAL ANALYSES OF WATER

| **Bureau Veritas ID** | | BXT488 | BXT488 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2023/08/29 | 2023/08/29 | | |
| **COC Number** | | 1 of 1 | 1 of 1 | | |
| | **UNITS** | **PSBLEND** | **PSBLEND Lab-Dup** | **RDL** | **QC Batch** |
| **Calculated Parameters** | | | | | |
| Anion Sum | meq/L | 5.2 | N/A | N/A | B087680 |
| Cation Sum | meq/L | 4.7 | N/A | N/A | B087680 |
| Hardness (CaCO3) | mg/L | 220 | N/A | 0.50 | B087678 |
| Ion Balance (% Difference) | % | 5.8 | N/A | N/A | B087679 |
| Nitrate (N) | mg/L | <0.010 | N/A | 0.010 | B089420 |
| Nitrate (NO3) | mg/L | <0.044 | N/A | 0.044 | B087681 |
| Nitrite (NO2) | mg/L | <0.033 | N/A | 0.033 | B087681 |
| Calculated Total Dissolved Solids | mg/L | 270 | N/A | 10 | B087684 |
| Total Total Kjeldahl Nitrogen (Calc) | mg/L | 0.118 | N/A | 0.020 | B087686 |
| **Elements** | | | | | |
| Dissolved Cadmium (Cd) | ug/L | <0.020 | N/A | 0.020 | B087676 |
| **Misc. Inorganics** | | | | | |
| Conductivity | uS/cm | 430 | 440 | 2.0 | B091808 |
| Strong Acid Dissoc. Cyanide (CN) | mg/L | <0.00050 | N/A | 0.00050 | B091225 |
| pH | pH | 7.70 (1) | 7.96 | N/A | B091807 |
| Total Organic Carbon (C) | mg/L | 1.3 | N/A | 0.50 | B091254 |
| **Anions** | | | | | |
| Alkalinity (PP as CaCO3) | mg/L | <1.0 | <1.0 | 1.0 | B091796 |
| Alkalinity (Total as CaCO3) | mg/L | 170 | 170 | 1.0 | B091796 |
| Bicarbonate (HCO3) | mg/L | 200 | 210 | 1.0 | B091796 |
| Carbonate (CO3) | mg/L | <1.0 | <1.0 | 1.0 | B091796 |
| Dissolved Fluoride (F) | mg/L | 0.23 | 0.21 | 0.050 | B091809 |
| Hydroxide (OH) | mg/L | <1.0 | <1.0 | 1.0 | B091796 |
| Chloride (Cl) | mg/L | 3.0 | N/A | 1.0 | B091609 |
| Sulphate (SO4) | mg/L | 86 | N/A | 1.0 | B091609 |
| **Nutrients** | | | | | |
| Nitrite (N) | mg/L | <0.010 | N/A | 0.010 | B090722 |
| Nitrate plus Nitrite (N) | mg/L | <0.010 | N/A | 0.010 | B090722 |
| Total Nitrogen (N) | mg/L | 0.12 | N/A | 0.020 | B091177 |

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Duplicate exceeds acceptance criteria due to sample matrix. Reanalysis yields similar results.



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Bureau Veritas Job #: C367277
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STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

## RESULTS OF CHEMICAL ANALYSES OF WATER

| **Bureau Veritas ID** | | BXT488 | BXT488 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2023/08/29 | 2023/08/29 | | |
| **COC Number** | | 1 of 1 | 1 of 1 | | |
| | **UNITS** | **PSBLEND** | **PSBLEND Lab-Dup** | **RDL** | **QC Batch** |
| **Physical Properties** | | | | | |
| True Colour | PtCo units | <2.0 | N/A | 2.0 | B091957 |
| **Physical Properties** | | | | | |
| Turbidity | NTU | <0.10 | N/A | 0.10 | B088471 |

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## PETROLEUM HYDROCARBONS (CCME)

| **Bureau Veritas ID** | | BXT488 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/08/29 | | |
| **COC Number** | | 1 of 1 | | |
| | **UNITS** | **PSBLEND** | **RDL** | **QC Batch** |
| **Ext. Pet. Hydrocarbon** | | | | |
| F2 (C10-C16 Hydrocarbons) | mg/L | <0.10 | 0.10 | B090897 |
| **Surrogate Recovery (%)** | | | | |
| O-TERPHENYL (sur.) | % | 91 | N/A | B090897 |

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## SEMIVOLATILE ORGANICS BY GC-MS (WATER)

| **Bureau Veritas ID** | | BXT488 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/08/29 | | |
| **COC Number** | | 1 of 1 | | |
| | **UNITS** | **PSBLEND** | **RDL** | **QC Batch** |
| **Polycyclic Aromatics** | | | | |
| B[a]P TPE Total Potency Equivalents | mg/L | <0.000010 | 0.000010 | B087682 |
| Acenaphthene | mg/L | <0.00010 | 0.00010 | B090888 |
| Acenaphthylene | mg/L | <0.00010 | 0.00010 | B090888 |
| Acridine | mg/L | <0.000040 | 0.000040 | B090888 |
| Anthracene | mg/L | <0.000010 | 0.000010 | B090888 |
| Benzo(a)anthracene | mg/L | <0.0000085 | 0.0000085 | B090888 |
| Benzo(b&j)fluoranthene | mg/L | <0.0000085 | 0.0000085 | B090888 |
| Benzo(k)fluoranthene | mg/L | <0.0000085 | 0.0000085 | B090888 |
| Benzo(g,h,i)perylene | mg/L | <0.0000085 | 0.0000085 | B090888 |
| Benzo(c)phenanthrene | mg/L | <0.000050 | 0.000050 | B090888 |
| Benzo(a)pyrene | mg/L | <0.0000075 | 0.0000075 | B090888 |
| Benzo(e)pyrene | mg/L | <0.000050 | 0.000050 | B090888 |
| Chrysene | mg/L | <0.0000085 | 0.0000085 | B090888 |
| Dibenz(a,h)anthracene | mg/L | <0.0000075 | 0.0000075 | B090888 |
| Fluoranthene | mg/L | <0.000010 | 0.000010 | B090888 |
| Fluorene | mg/L | <0.000050 | 0.000050 | B090888 |
| Indeno(1,2,3-cd)pyrene | mg/L | <0.0000085 | 0.0000085 | B090888 |
| 1-Methylnaphthalene | mg/L | <0.00010 | 0.00010 | B090888 |
| 2-Methylnaphthalene | mg/L | <0.00010 | 0.00010 | B090888 |
| Naphthalene | mg/L | <0.00010 | 0.00010 | B090888 |
| Phenanthrene | mg/L | <0.000050 | 0.000050 | B090888 |
| Perylene | mg/L | <0.000050 | 0.000050 | B090888 |
| Pyrene | mg/L | <0.000020 | 0.000020 | B090888 |
| Quinoline | mg/L | <0.00020 | 0.00020 | B090888 |
| **Surrogate Recovery (%)** | | | | |
| D10-ANTHRACENE (sur.) | % | 88 | N/A | B090888 |
| D8-ACENAPHTHYLENE (sur.) | % | 83 | N/A | B090888 |
| D8-NAPHTHALENE (sur.) | % | 75 | N/A | B090888 |
| TERPHENYL-D14 (sur.) | % | 99 | N/A | B090888 |

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## MERCURY BY COLD VAPOR (WATER)

| **Bureau Veritas ID** | | BXT488 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/08/29 | | |
| **COC Number** | | 1 of 1 | | |
| | **UNITS** | **PSBLEND** | **RDL** | **QC Batch** |
| **Elements** | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.0019 | 0.0019 | B092503 |
| RDL = Reportable Detection Limit | | | | |



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STANTEC CONSULTING LTD
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Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| Bureau Veritas ID | | BXT488 | BXT488 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2023/08/29 | 2023/08/29 | | |
| COC Number | | 1 of 1 | 1 of 1 | | |
| | UNITS | PSBLEND | PSBLEND Lab-Dup | RDL | QC Batch |
| **Elements** | | | | | |
| Dissolved Aluminum (Al) | mg/L | <0.0030 | N/A | 0.0030 | B092565 |
| Dissolved Antimony (Sb) | mg/L | <0.00060 | N/A | 0.00060 | B092565 |
| Dissolved Arsenic (As) | mg/L | <0.00020 | N/A | 0.00020 | B092565 |
| Dissolved Barium (Ba) | mg/L | 0.059 | N/A | 0.010 | B092566 |
| Dissolved Beryllium (Be) | mg/L | <0.0010 | N/A | 0.0010 | B092565 |
| Dissolved Bismuth (Bi) | mg/L | <0.0050 | <0.0050 | 0.0050 | B097132 |
| Dissolved Boron (B) | mg/L | 0.021 | N/A | 0.020 | B092566 |
| Dissolved Calcium (Ca) | mg/L | 58 | N/A | 0.30 | B092566 |
| Dissolved Chromium (Cr) | mg/L | <0.0010 | N/A | 0.0010 | B092565 |
| Dissolved Cobalt (Co) | mg/L | <0.00030 | N/A | 0.00030 | B092565 |
| Dissolved Copper (Cu) | mg/L | <0.0010 | N/A | 0.0010 | B092565 |
| Dissolved Iron (Fe) | mg/L | <0.060 | N/A | 0.060 | B092566 |
| Dissolved Lead (Pb) | mg/L | 0.00026 | N/A | 0.00020 | B092565 |
| Dissolved Lithium (Li) | mg/L | <0.020 | N/A | 0.020 | B092566 |
| Dissolved Magnesium (Mg) | mg/L | 18 | N/A | 0.20 | B092566 |
| Dissolved Manganese (Mn) | mg/L | <0.0040 | N/A | 0.0040 | B092566 |
| Dissolved Molybdenum (Mo) | mg/L | 0.00069 | N/A | 0.00020 | B092565 |
| Dissolved Nickel (Ni) | mg/L | <0.00050 | N/A | 0.00050 | B092565 |
| Dissolved Phosphorus (P) | mg/L | <0.10 | N/A | 0.10 | B092566 |
| Dissolved Potassium (K) | mg/L | 0.81 | N/A | 0.30 | B092566 |
| Dissolved Selenium (Se) | mg/L | 0.00058 | N/A | 0.00020 | B092565 |
| Dissolved Silicon (Si) | mg/L | 2.2 | N/A | 0.50 | B092566 |
| Dissolved Silver (Ag) | mg/L | <0.00010 | N/A | 0.00010 | B092565 |
| Dissolved Sodium (Na) | mg/L | 6.8 | N/A | 0.50 | B092566 |
| Dissolved Strontium (Sr) | mg/L | 0.28 | N/A | 0.020 | B092566 |
| Dissolved Sulphur (S) | mg/L | 26 | N/A | 0.20 | B092566 |
| Dissolved Thallium (Tl) | mg/L | <0.00020 | N/A | 0.00020 | B092565 |
| Dissolved Tin (Sn) | mg/L | <0.0010 | N/A | 0.0010 | B092565 |
| Dissolved Titanium (Ti) | mg/L | <0.0010 | N/A | 0.0010 | B092565 |
| Dissolved Uranium (U) | mg/L | 0.00058 | N/A | 0.00010 | B092565 |
| Dissolved Vanadium (V) | mg/L | <0.0010 | N/A | 0.0010 | B092565 |

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Bureau Veritas Job #: C367277
Report Date: 2023/09/06

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

## ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

| **Bureau Veritas ID** | | BXT488 | BXT488 | | |
|---|---|---|---|---|---|
| **Sampling Date** | | 2023/08/29 | 2023/08/29 | | |
| **COC Number** | | 1 of 1 | 1 of 1 | | |
| | **UNITS** | **PSBLEND** | **PSBLEND Lab-Dup** | **RDL** | **QC Batch** |
| Dissolved Zinc (Zn) | mg/L | <0.0030 | N/A | 0.0030 | B092565 |

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Sampler Initials: CL

## VOLATILE ORGANICS BY GC-MS (WATER)

| **Bureau Veritas ID** | | BXT488 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2023/08/29 | | |
| **COC Number** | | 1 of 1 | | |
| | **UNITS** | **PSBLEND** | **RDL** | **QC Batch** |
| **Volatiles** | | | | |
| Benzene | mg/L | <0.00040 | 0.00040 | B091294 |
| Toluene | mg/L | <0.00040 | 0.00040 | B091294 |
| Ethylbenzene | mg/L | <0.00040 | 0.00040 | B091294 |
| m & p-Xylene | mg/L | <0.00080 | 0.00080 | B091294 |
| o-Xylene | mg/L | <0.00040 | 0.00040 | B091294 |
| Xylenes (Total) | mg/L | <0.00089 | 0.00089 | B087675 |
| F1 (C6-C10) - BTEX | mg/L | <0.10 | 0.10 | B087675 |
| F1 (C6-C10) | mg/L | <0.10 | 0.10 | B091294 |
| **Surrogate Recovery (%)** | | | | |
| 1,4-Difluorobenzene (sur.) | % | 100 | N/A | B091294 |
| 4-Bromofluorobenzene (sur.) | % | 98 | N/A | B091294 |
| D4-1,2-Dichloroethane (sur.) | % | 101 | N/A | B091294 |

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## GENERAL COMMENTS

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

| | |
|---|---|
| Package 1 | 7.0°C |

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



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# QUALITY ASSURANCE REPORT

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

| | | | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| B090888 | D10-ANTHRACENE (sur.) | 2023/09/03 | 87 | 50 - 130 | 90 | 50 - 130 | 84 | % | | | | |
| B090888 | D8-ACENAPHTHYLENE (sur.) | 2023/09/03 | 75 | 50 - 130 | 79 | 50 - 130 | 65 | % | | | | |
| B090888 | D8-NAPHTHALENE (sur.) | 2023/09/03 | 47 (1) | 50 - 130 | 62 | 50 - 130 | 48 (1) | % | | | | |
| B090888 | TERPHENYL-D14 (sur.) | 2023/09/03 | 100 | 50 - 130 | 102 | 50 - 130 | 100 | % | | | | |
| B090897 | O-TERPHENYL (sur.) | 2023/09/02 | 94 | 60 - 140 | 91 | 60 - 140 | 91 | % | | | | |
| B091294 | 1,4-Difluorobenzene (sur.) | 2023/09/03 | 97 | 50 - 140 | 98 | 50 - 140 | 101 | % | | | | |
| B091294 | 4-Bromofluorobenzene (sur.) | 2023/09/03 | 102 | 50 - 140 | 100 | 50 - 140 | 100 | % | | | | |
| B091294 | D4-1,2-Dichloroethane (sur.) | 2023/09/03 | 101 | 50 - 140 | 100 | 50 - 140 | 102 | % | | | | |
| B088471 | Turbidity | 2023/08/29 | | | 99 | 80 - 120 | <0.10 | NTU | 6.2 | 20 | | |
| B090722 | Nitrate plus Nitrite (N) | 2023/08/31 | 122 (1) | 80 - 120 | 98 | 80 - 120 | <0.010 | mg/L | NC | 20 | | |
| B090722 | Nitrite (N) | 2023/08/31 | 95 | 80 - 120 | 99 | 80 - 120 | <0.010 | mg/L | NC | 20 | | |
| B090888 | 1-Methylnaphthalene | 2023/09/03 | 63 | 50 - 130 | 61 | 50 - 130 | <0.00010 | mg/L | NC | 30 | | |
| B090888 | 2-Methylnaphthalene | 2023/09/03 | 78 | 50 - 130 | 74 | 50 - 130 | <0.00010 | mg/L | NC | 30 | | |
| B090888 | Acenaphthene | 2023/09/03 | 82 | 50 - 130 | 84 | 50 - 130 | <0.00010 | mg/L | NC | 30 | | |
| B090888 | Acenaphthylene | 2023/09/03 | 81 | 50 - 130 | 83 | 50 - 130 | <0.00010 | mg/L | NC | 30 | | |
| B090888 | Acridine | 2023/09/03 | 75 | 50 - 130 | 85 | 50 - 130 | <0.000040 | mg/L | NC | 30 | | |
| B090888 | Anthracene | 2023/09/03 | 68 | 50 - 130 | 74 | 50 - 130 | <0.000010 | mg/L | NC | 30 | | |
| B090888 | Benzo(a)anthracene | 2023/09/03 | 88 | 50 - 130 | 93 | 50 - 130 | <0.0000085 | mg/L | NC | 30 | | |
| B090888 | Benzo(a)pyrene | 2023/09/03 | 88 | 50 - 130 | 96 | 50 - 130 | <0.0000075 | mg/L | NC | 30 | | |
| B090888 | Benzo(b&j)fluoranthene | 2023/09/03 | 87 | 50 - 130 | 92 | 50 - 130 | <0.0000085 | mg/L | NC | 30 | | |
| B090888 | Benzo(c)phenanthrene | 2023/09/03 | 97 | 50 - 130 | 104 | 50 - 130 | <0.000050 | mg/L | NC | 30 | | |
| B090888 | Benzo(e)pyrene | 2023/09/03 | 76 | 50 - 130 | 85 | 50 - 130 | <0.000050 | mg/L | NC | 30 | | |
| B090888 | Benzo(g,h,i)perylene | 2023/09/03 | 79 | 50 - 130 | 86 | 50 - 130 | <0.0000085 | mg/L | NC | 30 | | |
| B090888 | Benzo(k)fluoranthene | 2023/09/03 | 97 | 50 - 130 | 104 | 50 - 130 | <0.0000085 | mg/L | NC | 30 | | |
| B090888 | Chrysene | 2023/09/03 | 91 | 50 - 130 | 100 | 50 - 130 | <0.0000085 | mg/L | NC | 30 | | |
| B090888 | Dibenz(a,h)anthracene | 2023/09/03 | 79 | 50 - 130 | 85 | 50 - 130 | <0.0000075 | mg/L | NC | 30 | | |
| B090888 | Fluoranthene | 2023/09/03 | 91 | 50 - 130 | 101 | 50 - 130 | <0.000010 | mg/L | NC | 30 | | |
| B090888 | Fluorene | 2023/09/03 | 84 | 50 - 130 | 89 | 50 - 130 | <0.000050 | mg/L | NC | 30 | | |
| B090888 | Indeno(1,2,3-cd)pyrene | 2023/09/03 | 79 | 50 - 130 | 83 | 50 - 130 | <0.0000085 | mg/L | NC | 30 | | |
| B090888 | Naphthalene | 2023/09/03 | 76 | 50 - 130 | 76 | 50 - 130 | <0.00010 | mg/L | NC | 30 | | |
| B090888 | Perylene | 2023/09/03 | 78 | 50 - 130 | 87 | 50 - 130 | <0.000050 | mg/L | NC | 30 | | |
| B090888 | Phenanthrene | 2023/09/03 | 95 | 50 - 130 | 103 | 50 - 130 | <0.000050 | mg/L | NC | 30 | | |



Bureau Veritas Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone (403) 291-3077 Fax (403) 291-9468

Bureau Veritas Job #: C367277
Report Date: 2023/09/06

# QUALITY ASSURANCE REPORT(CONT'D)

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

| | | | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| B090888 | Pyrene | 2023/09/03 | 91 | 50 - 130 | 101 | 50 - 130 | <0.000020 | mg/L | NC | 30 | | |
| B090888 | Quinoline | 2023/09/03 | 84 | 50 - 130 | 88 | 50 - 130 | <0.00020 | mg/L | NC | 30 | | |
| B090897 | F2 (C10-C16 Hydrocarbons) | 2023/09/02 | 92 | 60 - 140 | 89 | 60 - 140 | <0.10 | mg/L | NC | 30 | | |
| B091177 | Total Nitrogen (N) | 2023/08/31 | 103 | 80 - 120 | 104 | 80 - 120 | <0.020 | mg/L | NC | 20 | 93 | 80 - 120 |
| B091225 | Strong Acid Dissoc. Cyanide (CN) | 2023/08/31 | NC | 80 - 120 | 102 | 80 - 120 | <0.00050 | mg/L | 0.67 | 20 | | |
| B091254 | Total Organic Carbon (C) | 2023/08/31 | 85 | 80 - 120 | 110 | 80 - 120 | <0.50 | mg/L | 5.5 | 20 | | |
| B091294 | Benzene | 2023/09/03 | 94 | 50 - 140 | 103 | 60 - 130 | <0.00040 | mg/L | NC | 30 | | |
| B091294 | Ethylbenzene | 2023/09/03 | 98 | 50 - 140 | 106 | 60 - 130 | <0.00040 | mg/L | NC | 30 | | |
| B091294 | F1 (C6-C10) | 2023/09/03 | 98 | 60 - 140 | 108 | 60 - 140 | <0.10 | mg/L | NC | 30 | | |
| B091294 | m & p-Xylene | 2023/09/03 | 99 | 50 - 140 | 107 | 60 - 130 | <0.00080 | mg/L | NC | 30 | | |
| B091294 | o-Xylene | 2023/09/03 | 100 | 50 - 140 | 106 | 60 - 130 | <0.00040 | mg/L | NC | 30 | | |
| B091294 | Toluene | 2023/09/03 | 95 | 50 - 140 | 104 | 60 - 130 | <0.00040 | mg/L | NC | 30 | | |
| B091609 | Chloride (Cl) | 2023/08/31 | NC | 80 - 120 | 97 | 80 - 120 | <1.0 | mg/L | 0.78 | 20 | | |
| B091609 | Sulphate (SO4) | 2023/08/31 | 90 | 80 - 120 | 103 | 80 - 120 | <1.0 | mg/L | 12 | 20 | | |
| B091796 | Alkalinity (PP as CaCO3) | 2023/09/02 | | | | | <1.0 | mg/L | NC | 20 | | |
| B091796 | Alkalinity (Total as CaCO3) | 2023/09/02 | | | 103 | 80 - 120 | <1.0 | mg/L | 2.9 | 20 | | |
| B091796 | Bicarbonate (HCO3) | 2023/09/02 | | | | | <1.0 | mg/L | 2.9 | 20 | | |
| B091796 | Carbonate (CO3) | 2023/09/02 | | | | | <1.0 | mg/L | NC | 20 | | |
| B091796 | Hydroxide (OH) | 2023/09/02 | | | | | <1.0 | mg/L | NC | 20 | | |
| B091807 | pH | 2023/09/02 | | | 100 | 97 - 103 | | | 3.3 | N/A | | |
| B091808 | Conductivity | 2023/09/02 | | | 99 | 90 - 110 | <2.0 | uS/cm | 0.92 | 10 | | |
| B091809 | Dissolved Fluoride (F) | 2023/09/02 | 87 | 80 - 120 | 86 | 80 - 120 | <0.050 | mg/L | 7.4 | 20 | | |
| B091957 | True Colour | 2023/08/31 | NC | 80 - 120 | 98 | 80 - 120 | <2.0 | PtCo units | 1.9 | 20 | | |
| B092503 | Dissolved Mercury (Hg) | 2023/09/01 | 90 | 80 - 120 | 104 | 80 - 120 | <0.0019 | ug/L | 1.9 | 20 | | |
| B092565 | Dissolved Aluminum (Al) | 2023/09/01 | 114 | 80 - 120 | 112 | 80 - 120 | <0.0030 | mg/L | NC | 20 | | |
| B092565 | Dissolved Antimony (Sb) | 2023/09/01 | 104 | 80 - 120 | 102 | 80 - 120 | <0.00060 | mg/L | NC | 20 | | |
| B092565 | Dissolved Arsenic (As) | 2023/09/01 | 98 | 80 - 120 | 96 | 80 - 120 | <0.00020 | mg/L | NC | 20 | | |
| B092565 | Dissolved Beryllium (Be) | 2023/09/01 | 94 | 80 - 120 | 94 | 80 - 120 | <0.0010 | mg/L | NC | 20 | | |
| B092565 | Dissolved Chromium (Cr) | 2023/09/01 | 99 | 80 - 120 | 97 | 80 - 120 | <0.0010 | mg/L | NC | 20 | | |
| B092565 | Dissolved Cobalt (Co) | 2023/09/01 | 99 | 80 - 120 | 99 | 80 - 120 | <0.00030 | mg/L | NC | 20 | | |
| B092565 | Dissolved Copper (Cu) | 2023/09/01 | 98 | 80 - 120 | 100 | 80 - 120 | <0.0010 | mg/L | NC | 20 | | |



Bureau Veritas Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone (403) 291-3077 Fax (403) 291-9468

Bureau Veritas Job #: C367277
Report Date: 2023/09/06

# QUALITY ASSURANCE REPORT(CONT'D)

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

| | | | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| B092565 | Dissolved Lead (Pb) | 2023/09/01 | 99 | 80 - 120 | 101 | 80 - 120 | <0.00020 | mg/L | 10 | 20 | | |
| B092565 | Dissolved Molybdenum (Mo) | 2023/09/01 | 106 | 80 - 120 | 101 | 80 - 120 | <0.00020 | mg/L | NC | 20 | | |
| B092565 | Dissolved Nickel (Ni) | 2023/09/01 | 98 | 80 - 120 | 97 | 80 - 120 | <0.00050 | mg/L | NC | 20 | | |
| B092565 | Dissolved Selenium (Se) | 2023/09/01 | 105 | 80 - 120 | 104 | 80 - 120 | <0.00020 | mg/L | NC | 20 | | |
| B092565 | Dissolved Silver (Ag) | 2023/09/01 | 100 | 80 - 120 | 102 | 80 - 120 | <0.00010 | mg/L | NC | 20 | | |
| B092565 | Dissolved Thallium (Tl) | 2023/09/01 | 100 | 80 - 120 | 101 | 80 - 120 | <0.00020 | mg/L | NC | 20 | | |
| B092565 | Dissolved Tin (Sn) | 2023/09/01 | 101 | 80 - 120 | 99 | 80 - 120 | <0.0010 | mg/L | NC | 20 | | |
| B092565 | Dissolved Titanium (Ti) | 2023/09/01 | 99 | 80 - 120 | 97 | 80 - 120 | <0.0010 | mg/L | NC | 20 | | |
| B092565 | Dissolved Uranium (U) | 2023/09/01 | 101 | 80 - 120 | 100 | 80 - 120 | <0.00010 | mg/L | NC | 20 | | |
| B092565 | Dissolved Vanadium (V) | 2023/09/01 | 102 | 80 - 120 | 100 | 80 - 120 | <0.0010 | mg/L | NC | 20 | | |
| B092565 | Dissolved Zinc (Zn) | 2023/09/01 | NC | 80 - 120 | 100 | 80 - 120 | <0.0030 | mg/L | 3.3 | 20 | | |
| B092566 | Dissolved Barium (Ba) | 2023/09/01 | 95 | 80 - 120 | 99 | 80 - 120 | <0.010 | mg/L | | | | |
| B092566 | Dissolved Boron (B) | 2023/09/01 | 98 | 80 - 120 | 100 | 80 - 120 | <0.020 | mg/L | | | | |
| B092566 | Dissolved Calcium (Ca) | 2023/09/01 | NC | 80 - 120 | 100 | 80 - 120 | <0.30 | mg/L | | | | |
| B092566 | Dissolved Iron (Fe) | 2023/09/01 | NC | 80 - 120 | 103 | 80 - 120 | <0.060 | mg/L | | | | |
| B092566 | Dissolved Lithium (Li) | 2023/09/01 | 101 | 80 - 120 | 102 | 80 - 120 | <0.020 | mg/L | | | | |
| B092566 | Dissolved Magnesium (Mg) | 2023/09/01 | 99 | 80 - 120 | 101 | 80 - 120 | <0.20 | mg/L | | | | |
| B092566 | Dissolved Manganese (Mn) | 2023/09/01 | 97 | 80 - 120 | 106 | 80 - 120 | <0.0040 | mg/L | | | | |
| B092566 | Dissolved Phosphorus (P) | 2023/09/01 | 95 | 80 - 120 | 99 | 80 - 120 | <0.10 | mg/L | | | | |
| B092566 | Dissolved Potassium (K) | 2023/09/01 | 101 | 80 - 120 | 101 | 80 - 120 | <0.30 | mg/L | | | | |
| B092566 | Dissolved Silicon (Si) | 2023/09/01 | NC | 80 - 120 | 98 | 80 - 120 | <0.50 | mg/L | | | | |
| B092566 | Dissolved Sodium (Na) | 2023/09/01 | 101 | 80 - 120 | 101 | 80 - 120 | <0.50 | mg/L | | | | |
| B092566 | Dissolved Strontium (Sr) | 2023/09/01 | 92 | 80 - 120 | 95 | 80 - 120 | <0.020 | mg/L | | | | |
| B092566 | Dissolved Sulphur (S) | 2023/09/01 | 96 | 80 - 120 | 98 | 80 - 120 | <0.20 | mg/L | | | | |



Bureau Veritas Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone (403) 291-3077 Fax (403) 291-9468

Bureau Veritas Job #: C367277
Report Date: 2023/09/06

# QUALITY ASSURANCE REPORT(CONT'D)

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

| | | | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| B097132 | Dissolved Bismuth (Bi) | 2023/09/06 | 96 | 80 - 120 | 108 | 80 - 120 | <0.0050 | mg/L | NC | 20 | | |

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.



Bureau Veritas Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone (403) 291-3077 Fax (403) 291-9468

Bureau Veritas Job #: C367277
Report Date: 2023/09/06

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Location: DIAMOND VALLEY RESERVOIR PROJECT
Sampler Initials: CL

## VALIDATION SIGNATURE PAGE

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

Jared Wiseman, B.Sc., P.Chem., QP, Senior Analyst, Organics

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

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

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Bureau Veritas Calgary: 2021 - 41st Avenue N.E. T2E 6P2 Telephone (403) 291-3077 Fax (403) 291-9468

Maxxam
A Bureau Veritas Group Company

Calgary: 4000 19th St. NE, T2E 6P8. Toll Free (800) 386-7247
Edmonton: 9331-48 St. T6B 2R4. Toll Free (800) 386-7247
maxxam.ca

# CHAIN OF CUSTODY RECORD

Page ____ of ____

| Invoice Information | | Report Information (if differs from invoice) | | Project Information | | Turnaround Time (TAT) Required |
|---|---|---|---|---|---|---|
| Company : | SRRUC C/O Jill Hardy (MPE) | Company: | Stantec Consulting Ltd. | Quotation #: | C22038 | ☐ 5 - 7 Days Regular (Most analyses) |
| Contact Name: | Christine Hummel | Contact Name: | Lincoln Weller | P.O. #/ AFE#: | | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS |
| Address: | 309 Macleod Trail | Address: | 200-325 25 Street SE | | | Rush TAT (Surcharges will be applied) |
| | PO Box 5605, High River, AB T1V 1M7 | | Calgary, AB T2A 7H8 | Project #: | 123513703 | ☐ Same Day ☐ 2 Days |
| Phone: | (403) 603-6233 | Phone: | (403) 451-4416 | Site Location: | Diamond Valley Reservoir Project | ☐ 1 Day ☐ 3-4 Days |
| Email: | christine.hummel@FoothillsCountyAB.ca | Email: | lincoln.weller@stantec.com | Site #: | | Date Required: |
| Copies: | jhardy@mpe.ca | Copies: | cory.lyons@FoothillsCountyAB.ca, hrc@mdfoothills.com, jhardy@mpe.ca | Sampled By: | Cory Lyons | Rush Confirmation #: |

**Laboratory Use Only**

| | YES | NO | Cooler ID | | | |
|---|---|---|---|---|---|---|
| Seal Present | ✓ | | Temp | 7 | 7 | 7 |
| Seal Intact | ✓ | | | | | |
| Cooling Media | ✓ | | | | | |
| | YES | NO | Cooler ID | | | |
| Seal Present | | | Temp | | | |
| Seal Intact | | | | | | |
| Cooling Media | | | | | | |
| | YES | NO | Cooler ID | | | |
| Seal Present | | | Temp | | | |
| Seal Intact | | | | | | |
| Cooling Media | | | | | | |

**Depot Reception**

**Analysis Requested**

| | Sample Identification | Depth (Unit) | Date Sampled (YYYY/MM/DD) | Time Sampled (HH:MM) | Matrix | # of containers | Stored Water | Town Wells | GW - Groundwater | IN - Interceptor Water | HOLD - DO NOT ANALYZE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PSBlend | | 2023-08-29 | | W | | X | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
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| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |

mcal-08-5069

*Please indicate Filtered, Preserved or Both (F, P, F/P)*

**Regulatory Criteria**

- ☐ AT1
- ☐ CCME
- ☐ Drinking Water
- ☐ D50 (Drilling Waste)
- ☐ Saskatchewan
- ☒ Other: Site Specific TVR

**Special Instructions**

| Relinquished by: (Signature/ Print) | DATE (YYYY/MM/DD) | Time (HH:MM) | Received by: (Signature/ Print) | DATE (YYYY/MM/DD) | Time (HH:MM) | Maxxam Job # |
|---|---|---|---|---|---|---|
| Cory Lyons / Cory Lyons | 2023/08/29 | 11:30am | Nirkamal Sani | 2023/08/29 | 11:52 | C367277 |
| | | | | | | |

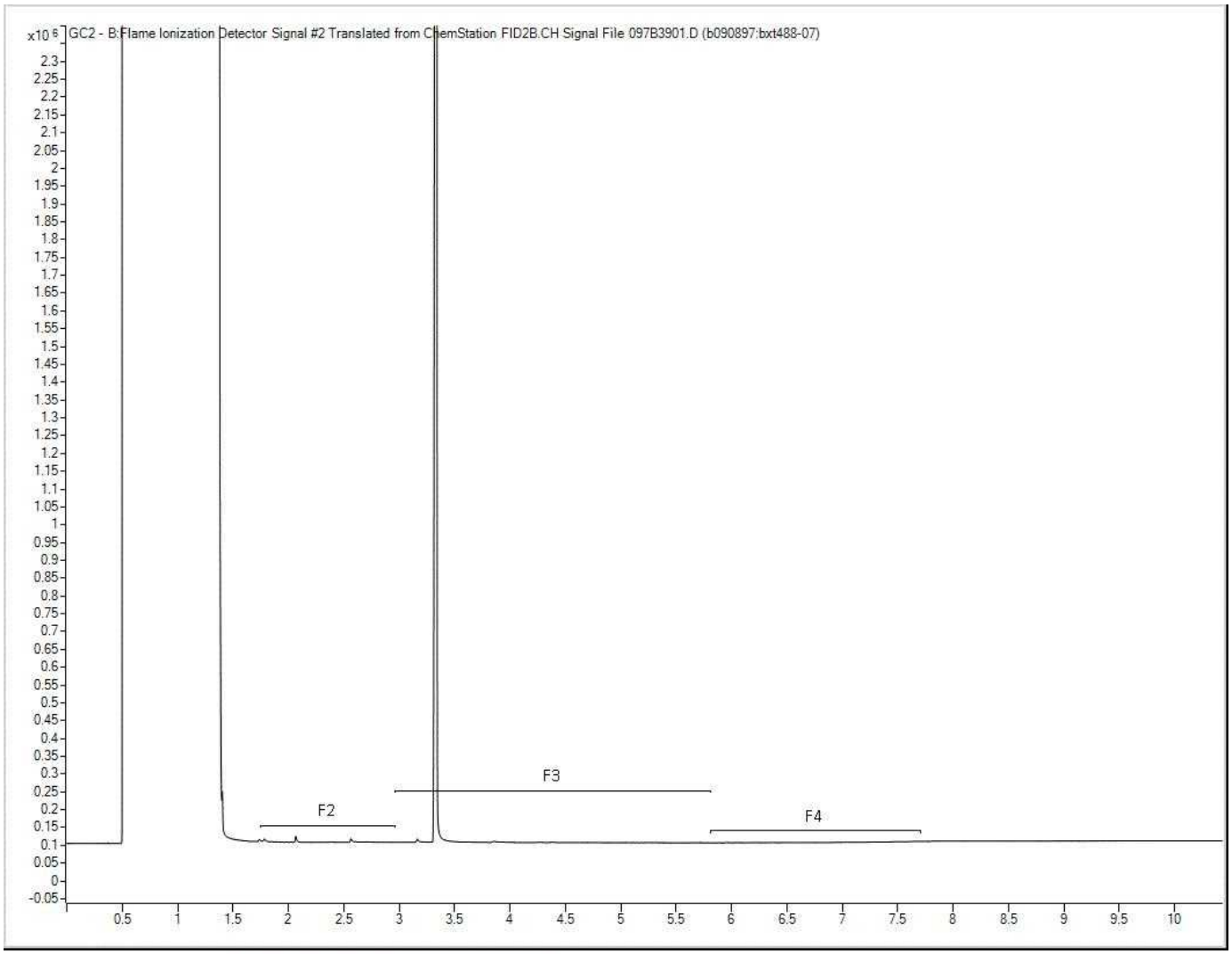
Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.maxxam.ca/terms

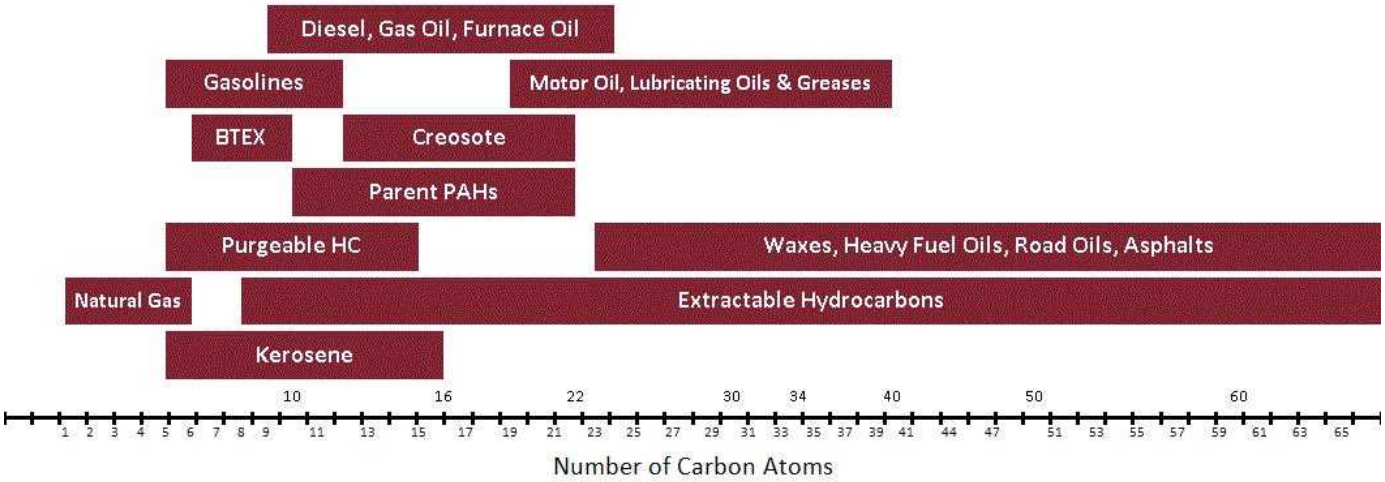
AB FCD-00331/7

Bureau Veritas Job #: C367277
Report Date: 2023/09/06
Bureau Veritas Sample: BXT488

STANTEC CONSULTING LTD
Client Project #: 123513703
Site Reference: DIAMOND VALLEY RESERVOIR PROJECT
Client ID: PSBLEND

**CCME Hydrocarbons in Water (F2; C10-C16) Chromatogram**




hpchem12\HPchem\1\DATA\2023\09\RUN0902

**Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.**