



ALS Canada Ltd.
2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: COLIN DUNN CONSULTING INC.
8756 PENDER PARK DRIVE
NORTH SAANICH BC V8L 3Z5

Page: 1
Total # Pages: 3 (A)
Plus Appendix Pages
Finalized Date: 31-MAY-2019
Account: CODUCO

QC CERTIFICATE VA19111424

Project: Research-Collaborative w/ALS

This report is for 155 Vegetation samples submitted to our lab in Vancouver, BC, Canada on 9-MAY-2019.

The following have access to data associated with this certificate:

COLIN DUNN

DAVE HEBERLEIN

SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|----------|--------------------------------|
| WEI-21 | Received Sample Weight |
| LOG-23 | Pulp Login - Rcvd with Barcode |

ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION |
|-----------|------------------------------------|
| ME-HAL01a | Super Trace Halogens on Vegetation |

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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QC CERTIFICATE OF ANALYSIS VA19111424

| Sample Description | Method Analyte Units LOD | ME-HAL01a | ME-HAL01a | ME-HAL01a | ME-HAL01a |
|----------------------------|-----------------------------------|-----------|-----------|-----------|-----------|
| | | I | Br | F | Cl |
| | | ppm | ppm | ppm | ppm |
| | | 0.002 | 0.02 | 0.05 | 0.1 |
| STANDARDS | | | | | |
| OREAS-25a | | 0.169 | 10.65 | 0.26 | 30.0 |
| OREAS-25a | | 0.121 | 10.70 | <0.05 | 33.3 |
| OREAS-25a | | 0.133 | 11.05 | <0.05 | 31.3 |
| OREAS-25a | | 0.121 | 11.40 | 0.16 | 31.0 |
| OREAS-25a | | 0.156 | 12.50 | <0.05 | 33.3 |
| OREAS-25a | | 0.122 | 10.55 | 0.18 | 31.6 |
| Target Range - Lower Bound | | 0.129 | 10.45 | <0.05 | 27.3 |
| Upper Bound | | 0.163 | 12.80 | 0.10 | 33.5 |
| VEG4a | | 4.19 | 55.5 | 17.65 | 5500 |
| Target Range - Lower Bound | | 3.61 | 45.5 | 16.55 | 4980 |
| Upper Bound | | 4.42 | 55.7 | 20.3 | 6090 |
| VEG8a | | 0.141 | 53.2 | 13.35 | 3690 |
| VEG8a | | 0.135 | 52.0 | 12.30 | 3580 |
| VEG8a | | 0.147 | 56.7 | 12.55 | 3900 |
| VEG8a | | 0.125 | 52.3 | 12.60 | 3380 |
| VEG8a | | 0.128 | 52.0 | 13.80 | 3450 |
| VEG8a | | 0.136 | 51.4 | 12.65 | 3800 |
| Target Range - Lower Bound | | 0.112 | 42.8 | 12.05 | 3330 |
| Upper Bound | | 0.142 | 52.4 | 14.85 | 4070 |
| BLANKS | | | | | |
| BLANK | | 0.002 | 0.03 | <0.05 | <0.1 |
| BLANK | | 0.004 | 0.04 | <0.05 | <0.1 |
| BLANK | | 0.004 | 0.03 | <0.05 | <0.1 |
| BLANK | | 0.005 | 0.02 | <0.05 | <0.1 |
| BLANK | | 0.003 | 0.02 | <0.05 | <0.1 |
| BLANK | | 0.004 | 0.02 | <0.05 | <0.1 |
| Target Range - Lower Bound | | <0.002 | <0.02 | <0.05 | <0.1 |
| Upper Bound | | 0.004 | 0.04 | 0.10 | 0.2 |



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QC CERTIFICATE OF ANALYSIS VA19111424

| Sample Description | Method Analyte Units LOD | ME-HAL01a I ppm 0.002 | ME-HAL01a Br ppm 0.02 | ME-HAL01a F ppm 0.05 | ME-HAL01a Cl ppm 0.1 |
|----------------------------|-----------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|
| DUPLICATES | | | | | |
| 1298 | | 0.056 | 1.55 | 58.5 | 801 |
| DUP | | 0.047 | 1.58 | 51.9 | 800 |
| Target Range - Lower Bound | | 0.047 | 1.47 | 52.4 | 760 |
| Upper Bound | | 0.056 | 1.66 | 58.0 | 841 |
| 1334 | | 0.036 | 1.82 | 58.9 | 1115 |
| DUP | | 0.046 | 1.73 | 47.8 | 1010 |
| Target Range - Lower Bound | | 0.037 | 1.67 | 50.6 | 1010 |
| Upper Bound | | 0.045 | 1.88 | 56.1 | 1115 |
| 1370 | | 0.111 | 96.0 | 3.19 | 402 |
| DUP | | 0.108 | 92.8 | 3.33 | 401 |
| Target Range - Lower Bound | | 0.102 | 89.7 | 3.05 | 381 |
| Upper Bound | | 0.117 | 99.1 | 3.47 | 422 |
| 1406 | | 0.015 | 0.31 | 94.5 | 18.6 |
| DUP | | 0.012 | 0.39 | 88.9 | 14.4 |
| Target Range - Lower Bound | | 0.011 | 0.31 | 87.1 | 15.6 |
| Upper Bound | | 0.016 | 0.39 | 96.3 | 17.4 |
| 1442 | | 0.065 | 1.02 | 112.0 | 598 |
| DUP | | 0.068 | 1.07 | 110.5 | 554 |
| Target Range - Lower Bound | | 0.061 | 0.97 | 105.5 | 547 |
| Upper Bound | | 0.072 | 1.12 | 117.0 | 605 |
| 1469 | | 0.143 | 96.1 | 13.45 | 304 |
| DUP | | 0.126 | 98.5 | 12.20 | 304 |
| Target Range - Lower Bound | | 0.126 | 92.4 | 12.15 | 289 |
| Upper Bound | | 0.143 | 102.0 | 13.50 | 319 |
| | | | | | |



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-23 ME-HAL01a WEI-21