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SALT IN ROADSIDE SOILS SAMPLING PROGRAM — CUMULATIVE EFFECT STUDIES — BRITISH COLUMBIA HIGHWAYS

MINISTRY OF TRANSPORTATION

PROJECT NO. BCV61843

Jacques Whitford

An Environment of Exceptional Solutions

PROJECT NO. BCV61843

REPORT TO **Ministry of Transportation**
PO Box 9850 Stn. Prov Govt.
Victoria BC V8W 9T5

ON **Salt in Roadside Soils Sampling Program —**
Cumulative Effect Studies —
British Columbia Highways

December 1, 2005

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Executive Summary

Jacques Whitford Limited was retained by the Ministry of Transportation (MOT) to conduct a Roadside Soil and Water Sampling Program for selected locations across the Highways of British Columbia.

The Salt Sampling Program was completed over a period of one year where seasonal sampling was design as a field based program suited to monitor roadside soil and water for a period of one year in order to characterize background salinity as well as seasonal changes in the accumulation of salt in the soil and water in selected highway locations in the province of British Columbia.

The main objectives of this Soil Sampling Program were:

- Carry out specific soil and water sampling and laboratory analysis in selected locations of the province of British Columbia to determine background conditions before the winter season (pre deicing application) and salinity levels subsequent to deicer applications.
- Assess the impacts and mobility of sodium chloride (salt) used as a highway deicing agents during the winter season on the highway shoulders for selected locations in the province of British Columbia;
- Determine the accumulation of salt in the highway soil and water and potential environmental impacts;
- Identify primary mechanisms of contaminant transport from the road surface to the roadside area and the factors affecting the distribution of contamination such as first flush, and expansion of roads and ditches; and,
- Conduct a statistical analysis for the distribution of sodium cations and chloride ions for the highways in the province of British Columbia.

Twenty seven areas along the British Columbia Highway system were sampled. The areas were determined using road maps based on MOT's regions of interest. previously specified, which included the Lower Mainland, the Kootenay region, the Cariboo region and the Kamloops region.

The specific locations where the samples were collected were decided on a case to case basis, based on road conditions and access to a pullout on the highway. When possible, samples were collected where a ditch was present on the highway shoulder, or where a difference in slope on the shoulder was observed. The soil samples at each location were collected at three different depths and three distances from the highway. Where possible, water samples were collected from ditches along the highway.

Soil and water samples collected were submitted for analysis of sodium and chloride.

Based on the analytical results obtained and the statistical analysis conducted, it appears that sodium and chloride ion quantities exhibit a cyclic pattern, presenting the lowest concentrations in Summer and the highest in Winter and after Spring runoff. It is also evident that the migration of sodium ions was less than of chloride ions.

There were specific locations that presented an overall higher concentration of sodium and/or chloride over the four sampling events or for a specific period of time. These results can be due to different factors such as severe weather conditions for that location, wind velocity, excessive snow over a short period of time or deicer application techniques in that location. Close monitoring is recommended to assess any potential risk associated with deicer application in those locations.

There were no major areas of distressed vegetation along the roadside areas sampled which are indicative of the application of deicers during the period investigated. However, it should be noted that some locations present sodium concentrations above the applicable CSR CL draft standard, but the locations were not consistent for each sampling event.

Surface water sample concentrations for chloride were also inconsistent for the locations where water was sampled. This can be related to temporal effects of deicing application and sampling.

While the results of this study indicate the potential for a cumulative effect of sodium and chloride in the soil, Jacques Whitford recommends that further field monitoring is necessary to examine long term trends under different deicing scenarios and weather conditions.

The statements made in this Executive Summary are subject to the same limitations included in the Closure section of this report, and are to be read in conjunction with the remainder of this report.

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1.0 INTRODUCTION

Jacques Whitford Limited was retained by the Ministry of Transportation (MOT) to conduct a Roadside Soil and Water Sampling Program for selected locations across the Highways of British Columbia. A highway plan showing the selected sampled locations is presented as Drawing No. 1 in Appendix A.

The program was completed over a period of one year where seasonal sampling was undertaken to characterize the salinity changes within the year. This provides a baseline to gauge cumulative impacts in response to the application of salt as a deicing agent on the highways of British Columbia.

The Salt Management Program provides background scientific information for application of the Ministry of Environment Code of Practice for the Environmental Management of Road Salts.

1.1 Objectives

The Salt Sampling Program was design as a field based program suited to monitor roadside soil and water for a period of one year in order to characterize background salinity as well as seasonal changes in the accumulation of salt in the soil and water in selected highway locations in the province of British Columbia.

The main objectives of this Soil Sampling Program were:

- Carry out specific soil and water sampling and laboratory analysis in selected locations of the province of British Columbia to determine background conditions before the winter season (pre deicing application) and salinity levels subsequent to deicer applications.
- Assess the impacts and mobility of sodium chloride (salt) used as a highway deicing agents during the winter season on the highway shoulders for selected locations in the province of British Columbia;
- Determine the accumulation of salt in the highway soil and water and potential environmental impacts;
- Identify primary mechanisms of contaminant transport from the road surface to the roadside area and the factors affecting the distribution of contamination such as first flush, and expansion of roads and ditches; and,
- Conduct a statistical analysis for the distribution of sodium cations and chloride ions for the highways in the province of British Columbia.

2.0 BACKGROUND

2.1 Legislative Context

The use of salts on roadways and its impacts on the environment continue to be an issue for various jurisdictional levels across Canada (*i.e.,* municipal, provincial and federal). Salt loadings released in the environment can produce negative impacts on various environmental media including fish, lake and stream ecosystems, plants, animals and birds (Environment Canada, 2001). Governments are beginning to address the management of road salts by adopting new technologies to optimize salt use, improve procedures (*e.g.,* better storage) and developing overall management plans. Salt Management Plans have become the favoured approach to minimize the daily impact of salts on local environments.

In 1995, road salts were added for consideration under to the Priority Substances List of the *Canadian Environmental Protection Act* (CEPA) and Environment Canada was designated as the department responsible to conduct a comprehensive science assessment on the substance (Environment Canada, 2001). The results of their work produced the *Code of Practice for the Environmental Management of Road Salts,* which was released in 2004.

In addition, there have been efforts to improve road salt use at the industry-level. The Transportation Association of Canada (TAC), which is a national industry association of stakeholders in the transportation field, have developed a framework to assist jurisdictions develop salt management plans. In 2003, they released a *Synthesis of Best Practices – Road Salt Management* to provide advice to road maintenance organizations for consideration when developing Salt Management Plans.

Salt is still considered one of the most efficient ways to provide winter maintenance for roads because of its cost, effectiveness, and ease of handling (TAC, 2003).

2.2 Previous Information

MOT implemented a Salt Management Plan to comply with the Environment Canada *Code of Practice for the Environmental Management of Road Salts*. This Plan is scheduled to be revised in 2006 to identify changes in operating procedures and to formulate plans for dealing with any problem sites identified.

Additionally, the MOT has conducted intrusive investigations involving the collection of soil and water samples from all their salt storage facilities across the Province. The results of this assessment were presented in a separate report prepared by Seacor Environmental Inc.

2.3 Areas of Study – Site Selection

Selected areas of study were based on Highway maps provided by the MOT and the areas of interest previously specified by the MOT, which included the Lower Mainland, the Kootenay region, the Cariboo region and the Kamloops region.

2.4 Applied Deicer Quantities

Based on the information provided by the Ministry of Transportation, the total length of road on which salt was applied from September 1st, 2004 to May 31st, 2005 was 21,864 km.

The total quantity and concentration of road salts applied for road maintenance for the period of September 1st to May 31st is presented in Table 2-1 below:[1]

Table 2-1 Quantity of Salt Usage for 2004-2005

Material	Solids (tones)	Liquids (litres)
NaCl	141,354	3,177,000
$CaCl_2$		1,483,240
$MgCl_2$	n/a	731,000
Other Cl^- materials (sand/salt mix)	1,088,608	n/a

The usage of chloride base materials for the 2004-2005 winter program was approximately 20% higher than the previous program. However, the excess of salt was applied over a short period of time in December and part of January. The remainder of the winter saw less than average use due to heavy rains and warmer temperatures.

2.5 Climatic Data

Climatic data collected consisted of Environment Canada data from 1971 to 2000 and average temperatures and precipitation for 2004 and 2005.

Graphical comparisons between data from 1971 to 2000 for temperatures and precipitation compared to 2004-2005 data for each sample location are provided in Appendix B.

Comparing climatic data gathered by Environment Canada from 1971 to 2000 with the past year indicates below “normal” winter severity conditions for the region.

[1] Salt Usage Report for British Columbia, Winter 2004/2005, prepared by Engineering Branch, Geotechnical, Materials and Pavement Engineering, June 30, 2005.

As presented in the graphs, the temperature over the past year was approximately 1.2°C higher than average, except during January where the temperature across the sampled locations in BC was approximately 1.07 °C lower than average.

s presented in the graphs, the precipitation over the past year was approximately 4.5 mm lower than average, except during the months of November and January where the precipitation for those months was approximately 13.6 mm higher than average during 2005.

2.6 Background Concentrations

The British Columbia Ministry of Environment (MOE) has over several years, collected background soil quality data for selected metals from all of its regions. This data has been used in the adjustment of contaminated soil quality standards in the Contaminated Sites Regulation (CSR), and in the calculation of regional background soil quality estimates for use under the Regulation.

The CSR provides a "release" from being deemed contaminated site when the concentrations of substances at a site do not exceed local background levels. A site is not a contaminated site with respect to a substance in the soil, surface water or groundwater if the site does not contain any substance with a concentration greater than the local background concentration of that substance in the soil, surface water or groundwater respectively.

Protocol 4 of the CSR summarizes available regional background soil quality estimates for specified inorganic substances in British Columbia and provides procedures to establish background soil quality on a site-specific basis for use under the CSR.

Soil background concentrations for metals by region are provided in Appendix C.

2.7 Deicer Transport Mechanisms

Deicing transport mechanisms depend mainly on atmospheric and pavement conditions. According to a Faculty of Engineering from the University of Regina study[2] three primary processes occur. The first process involves wind as a transport mechanism. If a deicer is applied when wind conditions are sufficient to influence the application or transport of the deicing agent, a large portion might be transported beyond the road.

The second mechanism involves the dissociation of the deicer into its ionic compounds. This can be initiated by the interaction of vehicle tires on the pavement surface, which if wind is present causes spraying of the deicer beyond the road.

[2] A study on the Environmental Impacts Generated by Road Deicing Practices on a Saskatchewan Highway,, by The Faculty of Engineering – University of Regina, dated December 22, 2002.

The third transport mechanism involves surface flow in response to the pavement slope. This mechanism results in the transport of the deicer as far as the pavement edge where the solute seeps into the highway shoulder.

An additional influence for the transport of deicing agents beyond the roads is generated by the application method and the amount of deicer applied to a specific area.

3.0 APPLICABLE STANDARDS

3.1 Soil

CSR Standards

Contaminated site issues in BC are governed by the *Contaminated Sites Regulation* (CSR, BC Reg. 375/96) under the *Environment Management Act* (E.B.C.) and administered by the BC Ministry of Environment (MOE). The CSR soil and groundwater standards are risk-based and are considered to be protective of human health and the environment.

The CSR provides generic (Schedules 4 and 10 of the CSR) and matrix (Schedule 5 of the CSR) standards for soils. Generic standards are intended to protect human health at any site without consideration of site-specific factors other than land use. Matrix numerical standards consider both land use and site-specific factors, such as intake of contaminated soil, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by aquatic life. Based on current land use, the soil standards for Commercial Land Use (CL) are applicable for comparison of soil sample results for this project.

As the main deicing chemical used is road salt, sodium and chloride are being used as chemical indicators. There are no current CL applicable standards for sodium or chloride. Schedule 10 indicated that a PQL based standard should applied for both parameters, but have not been calculated to date.

The CSR has issued a proposed standard for sodium for toxicity to soil invertebrates and plants of 1,200 μg/g and 2,500 μg/g for chloride. As this report is for research rather than determining whether the sites are contaminated or not, the proposed standards are being used as a reference.

3.2 Water

British Columbia Water Quality Guidelines (Criteria)

Water quality guidelines were developed in order for water quality data to be assessed and site-specific water quality objectives could be prepared. They provide

the benchmarks for the assessment of water quality and setting water quality objectives. In general, water quality problems are non-existent if the substance concentration is lower than the guideline(s). However, if the substance concentration exceeds its guideline, an assessment of the water quality is desirable.

Water quality guidelines apply province-wide and are safe levels of substances for the protection of a given water use, including Drinking Water, Aquatic Life (Freshwater and Marine), Recreation and Aesthetics, Agricultural uses (Irrigation and Livestock Watering), and Industrial. In aquatic environments, water quality includes the physical, chemical and biological quality of the water, sediment and biota.

Schedule 10 indicated that a PQL based standard should applied for chloride in water, but have not been calculated to date. As the there are no Water Quality Guidelines for Aquatic Life for chloride, or CSR AW standards, the Drinking Water Guideline has been used for comparison purposes.

4.0 SCOPE OF WORK

The scope of work for the Salt Sampling Program was focused on 27 different sampling locations covering the Lower Mainland, Kootenay region, Cariboo region and the Kamloops region as presented in Section 2.3.

The scope of work was divided into the following tasks:

1. Gathering of background information:
    - Results of the survey submitted by the MOT to the salt contractors at different locations, which include information regarding quantity of salt employed, number of passes per season, and areas of major salt use; and,
    - Collect and study any additional documentation that was provided by the MOT to Jacques Whitford.
    - Collect and study the survey results to determine the areas that provided a general overview of the Province conditions; and,
    - Collected climatic data such as precipitation, catchment areas and average wind for the selected areas.
2. Determining the areas of study:
    - Selected areas of study were based on Highway maps provided by the MOT and the areas of interest previously specified by the MOT, which included the Lower Mainland, the Kootenay region, the Cariboo region and the Kamloops region.

3. Sample Collection and laboratory analyses:
    - Collected three soil samples from each selected location at different depths and distances from the highway shoulder each season over a period of one year;
    - Collected one soil sample from a location outside the impacted area previously determined by the conductivity survey to compare and verify background concentrations;
    - Recorded soil conditions at each sampling location including soil colour, type and relative moisture level;
    - Where possible, collected ditch water samples from the highway shoulders (not completed during first sampling event);
    - Recorded any additional observations and field findings, including stressed vegetation and predominant ground slope;
    - Surveyed each sample location with a GPS to have approximate coordinates for repetitive sampling purposes; and,
    - Submitted collected soil samples for laboratory analyses of chloride anions and metals cations.
4. Conductivity Survey
    - Conducted a conductivity survey for 25 selected areas to cross-reference laboratory analytical data with field conductivity result for each location.
5. Data Compilation and Analysis
    - Reduced analytical data and compare it to the applicable CSR standards as well as to soil background concentrations from the BC Technical Guidance for Contaminated Sites (Guidance 17 – Background Soil Quality Database);
    - Determine different areas of potential environmental concern based on different soil types, depths and distances from the highway, in correlation with applicable background information previously obtained; and,
    - Obtain general conditions for the highways in British Columbia based on statistical analysis.
6. Report and Recommendations
    - A description of all investigation field and analytical methods;
    - A description of the nature and distribution of contaminated soils, if any;
    - General conditions of the highways of British Columbia;
    - Site specific areas of potential environmental concern, if any; and,
    - Recommendations to determine if further assessment is necessary or unnecessary.

5.0 METHODOLOGY

5.1 Determination of Area of Study Methodology

The areas sampled were determined using road maps provided by MOT based on MOT's regions of interest.

The specific locations where the samples were collected were decided on a case to case basis, based on road conditions and access to a pullout on the highway. When possible, samples were collected where a ditch was present on the highway shoulder, or where a difference in slope on the shoulder was observed.

The sample location logs including sample distances from the highway, site topography and stratigraphy for the 27 Sites are included in Appendix D.

5.2 Field Methodology

The design of the field-based sampling program involved four rounds of soil and water sampling along the BC Highways for a period of one year in order to characterize the background salinity as well as seasonal changes.

Soil samples were collected at three different depths and three distances from the highway shoulder from 27 locations using a shovel. The depths sampled were from 0-0.2 mbg, 0.2-0.4 mbg and 0.4-0.6 mbg. The three different distances from the highway sampled ranged from 0.5 to 2 m (short distance or highway shoulder), 2 to 4 m (medium distance or bottom of ditch when encountered) and 4 to 5 m (long distance or opposite side of ditch when encountered).

Each sampling location was surveyed with a GPS to have approximate coordinates for repetitive sampling purposes. Additionally, Jacques Whitford recorded any additional observations and field findings, including stressed vegetation and predominant ground slope for each location.

Each sample was placed into a clean, laboratory supplied glass container and were submitted for laboratory analyses of chloride anions and metals cations.

All samples collected were submitted for laboratory chemical analysis, using standard chain-of-custody procedures.

5.2.1 Field QA/QC Procedures

- A new pair of latex/nitrile gloves was used for the collection of each soil and dwater sample;
- Precautions were taken to ensure that samples were handled in an appropriate manner. These included packing the samples properly so that

minimal air space remained in sample containers, and keeping all samples at temperatures below 4°C until delivery to the project laboratory;

- Soil and water samples were collected as duplicate samples and compared to their surrogate to ensure laboratory integrity, and;
- Shovel was decontaminated between sampling locations with methanol and distilled water.

5.3 Conductivity Survey

The electromagnetic terrain conductivity survey was conducted by Frontier Geosciences Inc. of North Vancouver (Frontier).

Each selected location was surveyed a hundred meters in length in order to obtain a conductivity profile of the area. Details of the methodology and results are presented in Section 7.6 below.

5.4 Limitations of the Study

The field investigation was conducted after several years of deicing application. The data presented in this study is for one year only. No effort was made to determine the actual effects on the environment by previous salt applications. Additionally, this is just a statistic analysis of 27 selected locations and for limited parameters. No effort was made to determine if other contaminant exits or to determine lateral extent of contamination along the highway system.

6.0 QA/QC

The following sections outline the quality assurance and quality controls in place for the report, field and laboratory programs.

6.1 Report QA/QC

All the data presented in this report has been checked against original records.

6.2 Field QA/QC

Details on the field QA/QC methodologies are provided in Section 5.2.1. The QA/QC summary and associated tables are presented in Appendix E.

6.3 Laboratory QA/QC

The internal QA/QC program utilized by Maxxam consists of replicate samples, matrix spikes and surrogate recoveries.

6.4 QA/QC Summary

In addition to the internal laboratory QA/QC program, Jacques Whitford submitted blind field duplicates for both soil and surface water samples.

Based on review of the soil and surface water data set, it is Jacques Whitford opinion that the data may be relied upon for the purposes of this study.

7.0 ANALYTICAL RESULTS

The analytical results section is presented by sampling event. A Site plan indicating the location of the sampling locations is provided as Drawing No. 1 in Appendix A.

Analytical results are included in Appendix E and Laboratory Certificates of Analysis are present in Appendix F.

7.1 General Stratigraphy

The stratigraphy identified for all the sampled locations consists generally of top soil and sand and gravel to the maximum depths investigated of 0.6 mbg.

7.2 Summer Monitoring Event – June 2004

The summer investigation was conducted to provide background information to detected changes and cumulative impacts in response to the application of deicing agents on the highways during the winter months. The investigation involved sampling twenty-five locations along the British Columbia Highways. Three samples were collected from each location at different depths and distances from the highway shoulder.

No ditch water samples were collected during the Summer event as the MOT requested expressed interest in collecting these samples at a later monitoring event.

7.2.1 Soil Results

A total of seventy-five soils samples were collected and analysed for metals and dissolved chloride.

7.2.1.1 Chloride Results

As shown on Table 1, Appendix E, four of the soil samples analysed for dissolved chloride reported detected concentrations but were less than the applicable CSR CL standard, the remaining of the samples analysed were less than the laboratory detection limit.

A summary of the detected sample concentrations is presented below in Table 7-1:

Table 7-1 Summary of Chloride Concentrations in Soil — Spring Event

Service Area	Site ID	Depth (mbg)	Chloride* (2500 [a])
11	8	0-0.2	64
15	11	0.2-0.4	170
17	14	0-0.2	480
14	24	0.2-0.4	150

Notes:
Bold - Exceeds applicable standard
mbg - meters below grade
( ) - CSR CL draft standard
a - Toxicity to soil invertebrates and plants
* - soil concentrations are in μg/g
Sites not identified in this table did not present detectable chloride concentrations

7.2.1.2 Metals Results

As shown on Table 1, Appendix E, six of the analysed samples for metals reported concentrations exceeding the applicable draft standards for chromium and sodium. However, chromium concentrations are less than the reported background levels for the applicable regions.

The remaining of the analysed samples contained concentrations less than the applicable standards.

A summary of the analytical results for the soil samples exceeding the applicable CSR CL standards is presented in Table 7-2 (below).

Table 7-2 Summary of Soil Metal Exceedances — Spring Event

Service Area	Site ID	Depth (mbg)	Chromium* (60 [a])	Sodium* (1200 [b])
8	3	0.2-0.4	**60** [150]	451
16	13	0-0.2	23	**1820**
17	14	0.2-0.4	34	**1270**
		0-0.2	42	**1450**
		0.4-0.6	**65** [150]	439

(Please see notes on following page)

Notes:
Bold - Exceeds applicable standard
mbg - meters below grade
( ) - CSR CL standard
a - Hexavalent chromium referenced for conservative purposes
b- Toxicity to soil invertebrates and plants
* - soil concentrations are in μg/g
[ ] – CSR Protocol 4 background concentration

7.2.2 Summary of Results

The results of the Summer Monitoring Event indicate the presence of sodium and chromium exceeding the applicable standard in the soil. Chromium concentrations are less than the background concentration for the applicable regions, and as such, chromium is not considered to be above standards.

No background concentrations above the applicable standard were identified for dissolved chloride in the soil.

7.3 Fall Monitoring Event – November 2004

The Fall Monitoring Event involved re-sampling the previously investigated twenty-five locations plus two additional locations along the British Columbia Highways.

Soil and ditch water samples were collected were submitted to the project laboratory for analyses of metals and dissolved chloride.

This monitoring event also included conducting an electromagnetic terrain conductivity survey to detect elevated soil conductivities that might indicate the presence of increased dissolved salts on the highways after the first application of deicing agents.

7.3.1 Soil

Seventy-seven soils samples were collected and analysed for metals and dissolved chloride.

7.3.1.1 Chloride Results

As indicated in Table 1, Appendix E, twenty-four of the soil samples analysed for dissolved chloride reported detected concentrations but were less than the applicable CSR CL standard, the remaining of the samples analysed were less than the laboratory detection limit.

A summary of the detected sample concentrations is presented below in Table 7-3:

Table 7-3 Summary of Chloride Concentrations in Soil — Fall Event

Site ID	Service Area	Depth (mbg)	Chloride* (2500 [a])
5	9	0-0.2	82
		0.4-0.6	81
6	10	0-0.2	81
8	11	0-0.2	100
9	4	0-0.2	150
		0.2-0.4	50
		0.4-0.6	55
10	16	0-0.2	64
		0.2-0.4	130
12	15	0.4-0.6	130
13	15	0.2-0.4	63
15	17	0.2-0.4	56
17	18	0-0.2	190
18	19	0.2-0.4	80
20	12	0-0.2	260
		0.2-0.4	400
		0.4-0.6	340
22	13	0-0.2	84
		0.4-0.6	100
23	8	0-0.2	400
24	14	0-0.2	92
		0.2-0.4	65
26	15	0-0.2	630
27	20	0-0.2	280

Notes:
mbg - meters below grade
( ) - CSR CL standard
a - Toxicity to soil invertebrates and plants – proposed standard
* - soil concentrations are in μg/g
Sites not identified in this table did not present detectable chloride concentrations

7.3.1.2 Metals Results

As indicated in Table 1, Appendix E, six of the analysed samples for metals reported concentrations exceeding the applicable standards for arsenic, chromium and sodium. The remaining of the analysed samples contained concentrations less than the applicable standards. Chromium concentrations are less than the background concentration for the applicable regions, and as such, chromium is not considered to be above standards.

A summary of the analytical results for the soil samples exceeding the applicable CSR CL standards is presented in Table 7-4 (below).

Table 7-4 Summary of Soil Metals Exceedances — Fall Event

Site ID	Service Area	Depth (mbg)	Arsenic* (20[a])	Chromium* (60 [b])	Sodium* (1200 [c])
8	11	0-0.2	**22.6** [15]	15	249
10	16	0-0.2	5.3	**75** [150]	**1400**
		0.2-0.4	4.9	**69** [150]	1070
		0.4-0.6	4.9	**67** [150]	386
11	15	0.2-0.4	6.7	37	**1330**
26	15	0-0.2	9.8	38	**1940**

Notes:

Bold - Exceeds applicable standard

mbg - meters below grade

( ) - CSR CL standard

a - Groundwater flow to surface water used by aquatic life

b- Hexavalent chromium referenced for conservative purposes

c- Toxicity to soil invertebrates and plants

* - soil concentrations are in μg/g

[ ] – CSR Protocol 4 background concentration

7.3.2 Water

Four ditch water samples were collected from different Site locations and analysed for dissolved chloride.

As indicated in Table 2 in Appendix E, three of the ditch water samples reported detected concentrations of dissolved chloride with one of them exceeding the Drinking Water Quality Guideline is used for reference purposes only. The remaining sample analysed was less than the laboratory detection limit.

A summary of the detected sample concentrations is presented below in Table 7-5:

Table 7-5 Summary of Dissolved Chloride Concentrations in Water — Fall Event

Site ID	Service Area	Chloride* (250 mg/L)**
4	9	3.5
8	11	8.3
26	15	**583**

Notes:

Bold Exceeds DW Quality Guideline

* water concentrations are in mg/L

** DW Quality Guideline use for reference purposes

7.3.3 Summary of Results

Twenty four of the soil samples analyzed reported concentrations of dissolved chloride compared to four soil samples with detected concentrations during the Summer program; however all of the samples reported concentrations less than the proposed standard.

Ditch water samples were collected from four different locations, three of the samples analyzed reported concentrations of chloride with one of them exceeding the DW Guideline use for comparison purposes.

7.4 Winter Monitoring Event – February 2005

The investigation involved re-sampling the 27 previously investigated locations. Where possible, three samples were collected from each location at the same depths and distances from the highway shoulder as the previous investigations. Two of the three required soil samples from Site 26 were not collected due to high snow accumulation and frozen soil.

Ditch water samples were collected where possible from ten (10) locations and submitted for laboratory analyses of dissolved chloride.

7.4.1 Soil

A total of eighty-six (86) soil samples (eighty samples plus 6 duplicates) were collected and analysed for metals and chloride.

7.4.1.1 Chloride Results

As indicated in Table 1, Appendix E, fifty-one (51) of the soil samples analysed for chloride reported detected concentrations but were less than the applicable CSR CL standard, the remaining of the samples analysed were less than the laboratory detection limit.

A summary of the detected sample concentrations is presented below in Table 7-6:

Table 7-6 Summary of Chloride Concentrations in Soil — Winter Event

Site ID	Service Area	Depth (mbg)	Chloride* (2500 [a])
2	8	0-0.2	316
		0.2-0.4	375
		0.4-0.6	705
3	8	0-0.2	79
4	9	0.2-0.4	96
5	9	0-0.2	545
		0.2-0.4	434
		0.4-0.6	372
6	10	0-0.2	119
7	11	0-0.2	265
		0.4-0.6	171
8	11	0-0.2	98
		0-0.2	121
		0-0.2	101

Site ID	Service Area	Depth (mbg)	Chloride* (2500 [a])
9	4	0.4-0.6	61
10	16	0.4-0.6	109
11	15	0-0.2	57
		0-0.2 (dup)	88
		0.4-0.6	256
12	15	0-0.2	299
13	16	0-0.2	97
14	17	0-0.2	89
		0.2-0.4	187
16	18	0-0.2	59
		0.2-0.4	82
		0.4-0.6	51
		0.4-0.6 (dup)	50
17	18	0.4-0.6	114
18	19	0-0.2	74
		0.2-0.4	376
		0.4-0.6	220
19	13	0-0.2	269
		0-0.2 (dup)	258
		0.2-0.4	201
		0.4-0.6	200
20	12	0-0.2	206
		0.2-0.4	83
		0.4-0.6	152
21	11	0.4-0.6	69
22	13	0.4-0.6	96
		0.4-0.6 (dup)	93
23	8	0-0.2	265
		0-0.2 (dup)	233
		0.2-0.4	98
		0.4-0.6	233
24	14	0.2-0.4	142
		0.2-0.4	70
27	19	0-0.2	76
		0-0.2 (dup)	79
		0.2-0.4	88
		0.4-0.6	80

Notes:

mbg - meters below grade

( ) - CSR CL standard

a - Toxicity to soil invertebrates and plants – proposed standard

* - soil concentrations are in μg/g

Sites not identified in this table did not present detectable chloride concentrations

7.4.1.2 Metals Results

Metal analytical results are presented in Table 1 in Appendix E. As indicated, twelve of the analysed samples for metals reported concentrations exceeding the applicable standards for arsenic, chromium and/or sodium. The remaining of the analysed samples contained concentrations less than the applicable standards. However, chromium and arsenic exceedances identified are within the CSR Protocol 4 background concentrations for the studied regions.

A summary of the analytical results for the soil samples exceeding the applicable CSR CL standards is presented in Table 7-7 (below).

Table 7-7 Summary of Soil Metal Exceedances — Winter Event

Site ID	Service Area	Depth (mbg)	Arsenic* (20[a])	Chromium* (60 [b])	Sodium* (1200 [c])
2	8	0-0.2	8.5	47.1	**1720**
5	9	0-0.2	3.9	26	**1270**
10	16	0.4-0.6	3.7	**70** [150]	309
11	15	0.4-0.6	6.2	30.9	**1510**
13	16	0-0.2	2.8	27.3	**1490**
		0.2-0.4	0.6	25.9	**1790**
14	17	0-0.2	1.9	**68.1** [150]	757
		0.2-0.4	1.5	27.9	**1390**
		0.4-0.6	2.0	**61.6** [150]	548
20	12	0.4-0.6	**21** [10]	8	209
26	15	0.2-0.4	**22.2** [10]	43.4	876
		0.2-0.4 (dup)	**26** [10]	38.6	958

Notes:
Bold - Exceeds applicable standard
mbg - meters below grade
( ) - CSR CL standard
a - Groundwater flow to surface water used by aquatic life
b- Hexavalent chromium referenced for conservative purposes
c- Toxicity to soil invertebrates and plants
* - soil concentrations are in μg/g
[ ] – CSR Protocol 4 background concentration

7.4.2 Water

Nine ditch water samples were collected from different Site locations and analysed for dissolved chloride. Analytical results are presented in Table 2 in Appendix E.

Eight of the ditch water samples analysed for dissolved chloride reported detected concentrations. One of them exceeded the Drinking Water Quality Guideline for chloride used for reference purposes.

The remaining sample analysed was less than the laboratory detection limit.

A summary of the detected sample concentrations is presented below in Table 7-8:

Table 7-8 Summary of Dissolved Chloride Concentrations in Water — Winter Event

Site ID	Service Area	Chloride* (250 mg/L)**
1	7	0.6
3	8	4.6
4	9	4.1
6	10	24.8
8	11	11.1
9	4	1.1
18	19	151
26	15	**337**

Notes:

Bold Exceeds DW Quality guideline

* water concentrations are in mg/L

** DW Quality guideline use for reference purposes

7.4.3 Summary of Results

Fifty one of the soil samples analyzed reported concentrations of chloride compared to twenty four soil samples with detected concentrations during the Fall program; however all of the samples reported concentrations less than the proposed standard. Based on these results, the number of chloride detections in the soil increased 106% from the last sampling event.

Six soil samples reported concentrations of sodium exceeding the applicable CSR standard compared to three soil samples that exceeded during the previous program. Based on these results, the number of soil samples exceeding the CSR standard for sodium increased 100% from the last sampling event.

Ditch water samples were collected from nine different locations, eight of the samples analyzed reported concentrations of chloride with one of them exceeding the Drinking Water Quality Guideline use for comparison purposes.

7.5 Spring Monitoring Event – April 2005

The investigation involved re-sampling the previously investigated twenty-seven locations along the British Columbia Highways. Three samples were collected from each location at the same depths and distances from the highway shoulder as the previous investigations. Additionally, 10 ditch water samples were collected.

The objective of this last sampling program was to detect salt runoffs and presence or absence of salt accumulation after the winter season's first thaw.

7.5.1 Soil

A total of eighty-seven (87) soil samples (81 samples plus 6 duplicates) were collected and analysed for metals and chloride.

Analytical results are presented in Table 1 in Appendix E.

7.5.1.1 Chloride Results

As indicated, in Table 1(Appendix E), forty (40) of the soil samples analysed for chloride had detectable concentrations but were less than the applicable CSR CL standard. The remaining samples analysed were less than the laboratory detection limit.

A summary of the detected sample concentrations is presented below in Table 7-9:

Table 7-9 Summary of Chloride Concentrations in Soil – Spring Event

Site ID	Service Area	Depth (mbg)	Chloride* (2500 [a])
7	11	0-0.2	52
		0.2-0.4	125
8	11	0-0.2	51
9	4	0-0.2	65
		0.2-0.4	56
11	15	0.2-0.4	98
12	15	0.4-0.6	61
13	16	0-0.2	93
		0.2-0.4	54
14	17	0-0.2	188
		0-0.2 (dup)	134
		0.2-0.4	350
		0.4-0.6	87
15	17	0-0.2	81
		0.2-0.4	96
		0.4-0.6	86
16	18	0.2-0.4	115
17	18	0-0.2	73
		0.2-0.4	78
		0.4-0.6	123
18	19	0-0.2	239
		0.2-0.4	181
		0.4-0.6	205
19	13	0-0.2	119
		0.2-0.4	103
20	12	0-0.2	358
		0.2-0.4	265
		0.2-0.4 (dup)	192
21	11	0-0.2	198

Site ID	Service Area	Depth (mbg)	Chloride* (2500 [a])
7	11	0-0.2	52
		0.2-0.4	125
8	11	0-0.2	51
9	4	0-0.2	65
		0.2-0.4	56
11	15	0.2-0.4	98
12	15	0.4-0.6	61
		0.2-0.4	295
		0.4-0.6	1560
24	14	0-0.2	184
		0.2-0.4	281
		0.4-0.6	53
26	15	0-0.2	152
		0.2-0.4	105
		0.4-0.6	57
27	19	0-0.2	84
		0.2-0.4	65
		0.4-0.6	309

Notes:

mbg - meters below grade

( ) - CSR CL standard

a - Toxicity to soil invertebrates and plants – proposed standard

* - soil concentrations are in μg/g

Sites not identified in this table did not present detectable chloride concentrations

7.5.1.2 Metals Results

As indicted in Table 1 (Appendix E), twelve of the analysed samples for metals had concentrations exceeding the applicable standards for arsenic, chromium and/or sodium. However, chromium and arsenic exceedances identified are within the CSR Protocol 4 background concentrations for the studied regions. The remaining samples contained concentrations less than the applicable standards.

A summary of the analytical results for the soil samples exceeding the applicable CSR CL standards is presented in Table 7-10 (please see following page).

Table 7-10 Summary of Soil Metal Exceedances — Spring Event

Site ID	Service Area	Depth (mbg)	Arsenic* (20[a])	Chromium* (60 [b])	Sodium* (1200 [c])
10	16	0.4-0.6	4.8	**62.1** [150]	525
12	15	0.4-0.6	6.8	32.3	**1690**
13	16	0-0.2	0.9	35	**2820**
		0.2-0.4	1.7	32.3	**1690**
		0.4-0.6	2.3	**68.7** [150]	871
14	17	0-0.2	2.3	57.1	**1310**
		0-0.2 (dup)	2.6	51.7	**1390**
		0.2-0.4	2.0	32.6	**1800**
		0.4-0.6	2.4	57.7	**1350**
26	15	0-0.2	**32.1** [10]	55.7	**1240**
		0.2-0.4	18.9	45.4	**1370**
		0.4-0.6	**57.1** [10]	**63.3** [150]	755

Notes:

Bold - Exceeds applicable standard

mbg - meters below grade

( ) - CSR CL standard

a - Groundwater flow to surface water used by aquatic life

b- Hexavalent chromium referenced for conservative purposes

c- Toxicity to soil invertebrates and plants

* - soil concentrations are in µg/g

[ ] – CSR Protocol 4 background concentration

7.5.2 Water

Ten ditch water samples were collected from different Site locations and analysed for dissolved chloride. Analytical results are presented in Table 2 (Appendix E).

Eight of the ditch water samples analysed for dissolved chloride reported detected concentrations; one exceeded the Drinking Water Quality Guideline for chloride used for reference purposes. The remaining samples analysed were less than the laboratory detection limit.

A summary of the detected sample concentrations is presented on the following page in Table 7-11:

Table 7-11 Summary of Dissolved Chloride Concentrations in Water — Spring Event

Site ID	Service Area	Chloride* (250 mg/L)**
3	8	4.0
4	9	1.9
6	10	36.7
8	11	17.1
18	19	**366**
21	11	0.6
22	13	10.4
26	15	77.8

Notes:

Bold Exceeds DW guideline

* water concentrations are in mg/L

** DW guideline use for reference purposes

Samples collected from Sites 1 and 9 were less than laboratory detection limit

7.5.3 Summary of Results

Forty of the soil samples analyzed reported concentrations of chloride compared to fifty one soil samples with detected concentrations during the Winter program; however, all of the samples reported concentrations less than the proposed standard. Based on these results, the number of chloride detections in the soil has decreased from the last sampling event, after the first thaw.

Two samples reported concentrations of arsenic exceeding the applicable CSR standard.

Nine soil samples reported concentrations of sodium exceeding the applicable CSR standard compared to six soil samples that exceeded during the Winter program.

Based on these results, the number of soil samples exceeding the CSR standard for sodium increased 50% from the Winter sampling event.

Ditch water samples were collected from ten different locations, eight of the samples analyzed reported concentrations of chloride with one exceeding the Drinking Water Quality Guideline use for comparison purposes. To date there are no current guidelines for Freshwater applicable to use for comparison.

7.6 Electromagnetic Survey

An electromagnetic terrain conductivity survey was conducted during the period of November 10 to 18, 2004 by Frontier Geosciences Inc. (Frontier) at 25 selected locations along the BC Highways. The locations were identified by GPS positioning and landmarks. Each location was surveyed a hundred meters in length in order to obtain a conductivity profile of the area.

The conductivity for the soils is reported in miliSiemens/meter (mS/m) and the results ranged from 0 mS/m to 1000 mS/m. The Frontier survey report is included in Appendix G.

The results of the survey indicated a number of conductivity responses, however they might be due to cultural features (such as culverts, signs, buried metal objects and driveways) or elevated concentrations of dissolved salt in the soils.

A direct correlation can be established between the locations where chloride concentrations were reported in the soil samples analyzed and the electromagnetic terrain survey. It can be observed that elevated conductivities were identified in areas where concentrations of chloride were reported.

8.0 STATISTICAL ANALYSIS

Graphs 1 through 22 in Appendix H illustrate the distribution of sodium and chloride ion concentrations for all the sampled locations.

Box Plots were used to provide a concise graphical comparison among the data collected and provide essential data characteristics.

The graphical results are discussed in the following sections:

8.1 Sodium Results

8.1.1 Concentration Distribution

Average sodium concentration distributions were plotted by sampling location for the four different sampling events. Results are presented in Graph 1 in Appendix H.

This graph shows specific locations that have higher concentrations during all the sampling events compared to the other locations. The locations with overall higher concentrations are Manning Park (Site ID 2), Roseland (Site ID 5), Kamloops (Site ID 11), Lone Butte (Side ID 13), Williams Lake (Site ID 14) and Bridge Lake (Site ID 26). These variances can be due to different factors affecting each one of these locations, such as different deicing application mechanisms or a difference in climatic conditions at those sites at the time of sampling.

Graph 2 in Appendix H illustrates the average distribution trends of sodium based on the three different sampling distances from the highway during the four sampling events by location. As it can be observed, there is a decreasing tendency in the concentration of sodium ions the further from the highway the samples were collected for all the sampling events.

Individual graphs per location for the four sampling events and for the three different distances from the highway are presented in Appendix H.

8.1.2 Box Plots Distribution - Sodium

To provide additional information, box plot graphs were constructed to view the data and provide a better understanding of the distribution of sodium ions in the soil.

Box plot graphs are presented as Graphs No. 3 through 11 in Appendix H.

Graph No. 3 represents all the samples collected during the four sampling events. As it can be observed, during the month of July, the first sampling event, the lowest concentrations of sodium were reported. The months of November and February present an increase with respect to July, but very little variation with respect to each other in the accumulation of sodium in the soil. One possible reason for this is that during those periods, the soil was frozen in most of the locations sampled and, based on the mobility of the sodium cations, they had not yet been able to percolate into the soil.

During the month of April, a slight increase in the concentration of sodium in the soil can be observed, which is consistent with the spring runoff, which allows for the sodium cations to infiltrate into the soil.

Plots for the samples collected at each of the three different distances from the highway for all the sampling events are presented as Graphs No. 4 through 6 in Appendix H.

Graph No. 4 represents samples collected closest to the highway (S1). It can be observed that during the month of July, the sodium is at its lowest concentration. At this distance, the month of November presents the highest average concentration of sodium in the soil, and these concentrations decrease in February and present and increase during the April sampling event.

Graphs No. 5 and 6 represent samples from the two other distances: mid-distance (S2) and furthermost from the highway (S3). These two graphs follow the same increasing tendency as Graph No. 3 previously discussed.

The different tendency in Graph No. 4 (S1) could be related to external factors such as wind speed and direction during the month of November, which allowed for the salt to stay closest to the highway. Another factor could be a rapid salt placement during November in some specific locations that allowed for a larger quantity of salt to remain closest to the highway.

Box plots were also drawn for the samples collected based on the three distances from the highway for all the events and are shown as Graph No. 7 in Appendix H.

A decreasing tendency in the concentration of sodium ions can be observed the further away from the highway the samples were collected.

Graphs No. 8 through 11 represent the samples collected at S1, S2 and S3 for each sampling event. These graphs indicate the same decreasing tendency based on distance from the highway.

8.2 Chloride Results

Average chloride concentration distributions were plotted by sampling location for the four different sampling events. Results are presented in Graph 12 in Appendix H.

Data interpretation is difficult as most of the samples having a concentration below the laboratory method detection limit of 50 ppm, and as such, it presents the difficulty of analyzing any specific trends in the data. However, it can be observed in this graph that some locations present an elevated concentration at different sampling events. Revelstoke (Site ID 20) presented a higher concentration of chloride during the month of November than the remaining of the sampled locations. Manning Park (Site ID 2) and Rossland (Site ID 5) presented elevated concentrations of chloride during the month of February, and Radium/Brisco (Site ID 21) had the highest concentration of chloride during the month of April.

These variances can be due to different deicing applying methods at the locations and climatic variations such as winter severity of elevated precipitation.

Graph 13 in Appendix H illustrates the average distribution of chloride concentrations based on the three different sampling distances from the highway for all the sampling events. There is generally a decreasing tendency in the concentration the further from the highway the samples were collected, with the exception of sample S3 collected at Radium/Brisco which had a concentration of chloride greater than the two other samples collected closer to the highway. This may be due to numerous conditions particular to that location during the application of deicing agents, such as wind speed.

Individual graphs for chloride concentration per location for the four sampling events and for the three different distances from the highway are presented in Appendix H.

8.2.1 Box Plots Distribution – Chloride

Box Plot graphs were generated to provide a better a better understanding of the distribution of chloride ions in the soil.

Box plot graphs for chloride are presented as Graphs No. 14 through 22 in Appendix H.

Graph No. 14 represents all the samples collected during the four sampling events. During the month of July, the first sampling event, the lowest concentrations of chloride were reported. The month of November presents a slight increase in the concentration of chloride ions, which coincides with the first application of deicing agents on the highways. February presents the highest concentration of chloride ions. This may be related to a high mobility of the chloride ions and an increase in the application of deicing agents. During the month of April, a slight decrease in the concentration of chloride in the soil can be observed, this coincides with the first thaw of the year and an elevated precipitation during that period compared to the other sampling events. These two factors might have contributed to the dilution of chloride ions from the soil.

Plots for the samples collected at each of the three different distances from the highway for all the sampling events are presented as Graphs No. 15 through 17 in Appendix H.

Graph No. 15 represents samples collected closest to the highway (S1), while Graph No.16 represents the mid-distance sample (S2) and Graph No. 17 represents the furthermost sampling location (S3).

Box plots were also drawn for the samples collected based on the three distances from the highway for all the events and are shown as Graph No. 18 in Appendix H. A decreasing tendency in the concentration of chloride ions can be observed the further away from the highway the samples were collected.

Graphs No. 19 through 22 represent the samples collected at S1, S2 and S3 for each sampling event. These graphs indicate the same decreasing tendency based on distance from the highway. The only exception is S3 for the month of February, which presents a higher concentration than S2, but this might be due to climatic factors such as wind speed and wind direction at the time of the application of the deicing agent.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical results obtained and the statistical analysis conducted, it appears that sodium and chloride ion quantities exhibit a cyclic pattern, presenting the lowest concentrations in Summer and the highest in Winter and after Spring runoff. It is also evident that the migration of sodium ions was less than of chloride ions.

There were specific locations that presented an overall higher concentration of sodium and/or chloride over the four sampling events or for a specific period of time. These results can be due to different factors such as severe weather conditions for that location, wind velocity, excessive snow over a short period of time or deicer application techniques in that location. Close monitoring is recommended to assess any potential risk associated with deicer application in those locations.

There were no major areas of distressed vegetation along the roadside areas sampled which are indicative of the application of deicers during the period investigated. However, it should be noted that some locations present sodium concentrations above the applicable CSR CL draft standard, but the locations were not consistent for each sampling event.

Surface water sample concentrations for chloride were also inconsistent for the locations where water was sampled. This can be related to temporal effects of deicing application and sampling.

While the results of this study indicate the potential for a cumulative effect of sodium and chloride in the soil, Jacques Whitford recommends that further field monitoring is necessary to examine long term trends under different deicing scenarios and weather conditions.

10.0 STATEMENT OF LIMITATIONS

This report has been prepared for the sole benefit of The Ministry of Transportation (MOT). The report may not be used by any other person or entity, with the exception of the British Columbia Ministry of Environment, without the express written consent of Jacques Whitford Limited (Jacques Whitford) or the MOT.

Any use which a third party makes of this report, or any reliance on decisions made based on it, are the responsibility of such third parties. Jacques Whitford accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted engineering and scientific practices current at the time the work was performed. Conclusions presented in this report should not be construed as legal advice.

The conclusions presented in this report represent the best technical judgment of Jacques Whitford based on the data obtained from the work. The conclusions are based on the Site conditions encountered by Jacques Whitford at the time the work was performed at specific testing and/or sampling locations, and can only be extrapolated to an undefined limited area around these locations. The extent of the limited area depends on the soil and groundwater conditions, as well as the history of the Site reflecting natural, construction and other activities. In addition, analysis has been carried out for a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Jacques Whitford cannot warrant against undiscovered environmental liabilities.

If any conditions become apparent that differ significantly from our understanding of conditions as presented in this report, we request that we be notified immediately to

reassess the conclusions provided herein. This report was prepared by Ms. Liliana Jerade and reviewed by Mr. Peter T. Reid.

Respectfully submitted,

JACQUES WHITFORD LIMITED

Original signed by:

Liliana Jerade, M.Eng. P.Eng.
Project Manager

Original signed by:

Peter T. Reid, M.Eng. P.Eng.
Service Director ESAR
(Western)

LJ/PR/jc

[File Ref: P:\60000 EE\BCV 61800\Bcv6184_\BCV61843 - Salt Management Plan\Reports\Final report\BCV61843_final Report.doc]

11.0 REFERENCES

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APPENDIX A
Drawings

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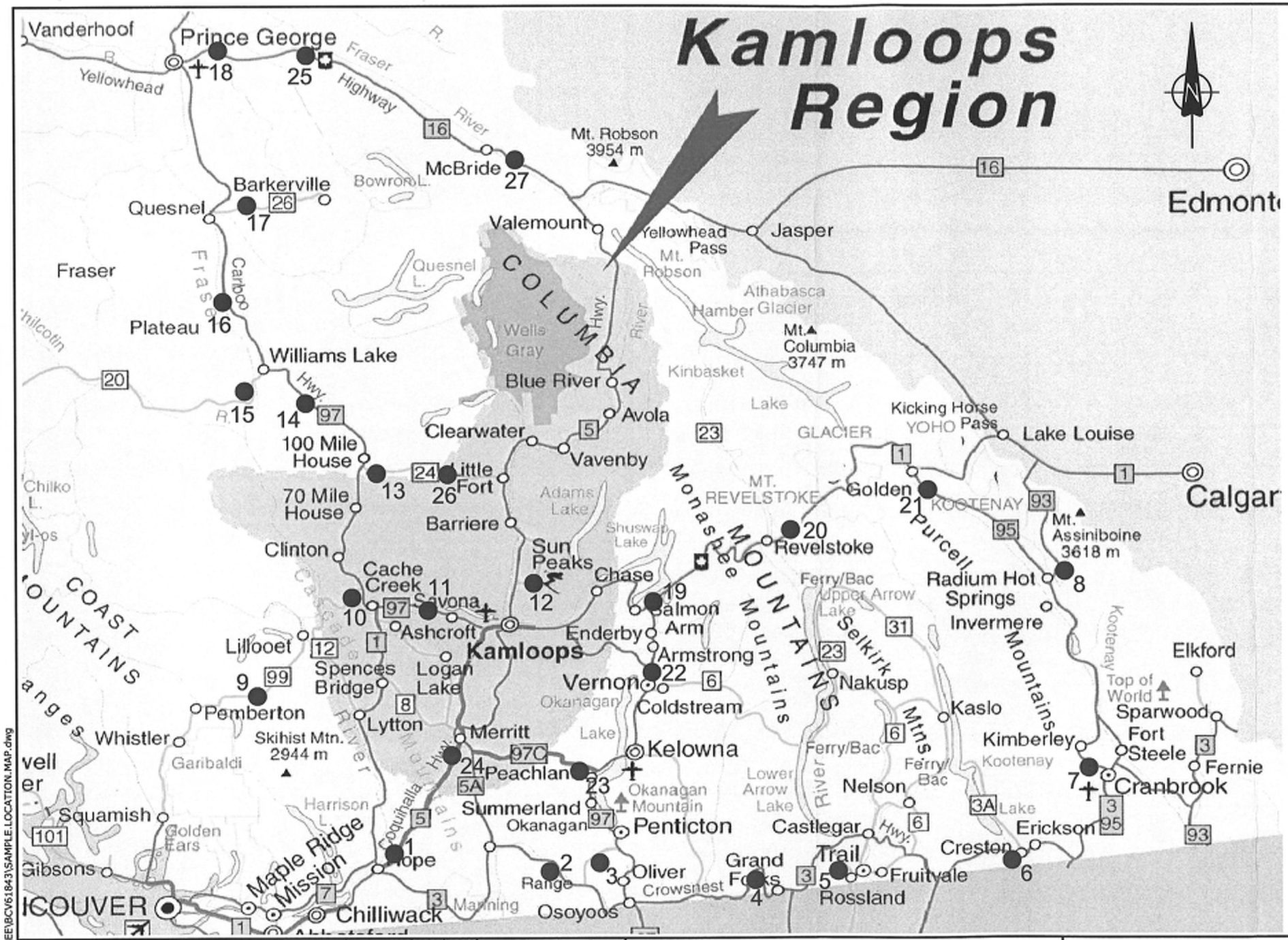
Kamloops Region



LEGEND

9 SAMPLING LOCATION *& SAMPLE LOCATION ID NUMBER

1 HOPE
2 MANNING PARK
3 PENTICTON
4 GREENWOOD
5 ROSSLAND
6 CRESTON
7 CRANBROOK
8 RADIUM
9 LILOOET
10 CACHE CREEK
11 KAMLOOPS
12 SUN PEAKS ROAD
13 LONE BUTTE
14 WILLIAMS LAKE
15 RISKE CREEK
16 QUESNEL
17 QUESNEL (HIGHWAY 26)
18 PRINCE GEORGE
19 SALMON ARM
20 REVELSTOKE
21 RADIUM / BRISCO
22 ARMSTRONG
23 KELOWNA
24 MERRITT
25 PRUDEN LAKE PROV. PARK
26 BRIDGE LAKE
27 McBRIDE
(*Approximate sample location)

This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

REV	DESCRIPTION	DATE	BY	CHK'D
0	ORIGINAL ISSUE	16-Nov-05	.	

Jacques Whitford

CLIENT: MINISTRY OF TRANSPORTATION

SITE: PROVINCE OF BRITISH COLUMBIA

PROJECT No: BCV61843

SAMPLING LOCATION SITE PLAN

SALT IN ROADSIDE SOILS SAMPLING PROGRAM

DWG No: 1

FILENAME: 2004\EE\BCV61843\SAMPLE.LOCATION.MAP.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR

APPENDIX B
Climatic Data

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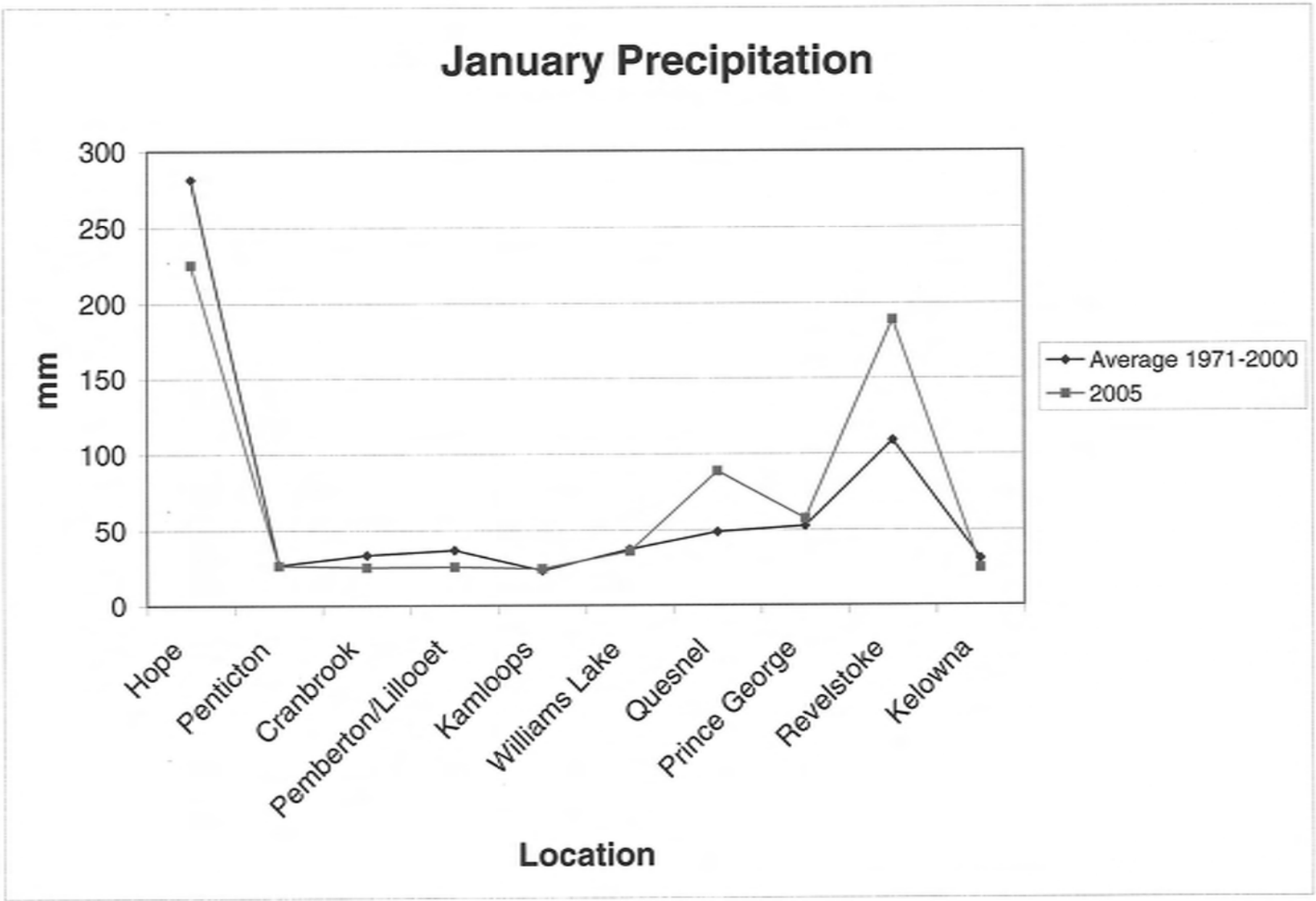
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200
150
100
50
0
mm
Average 1971-2000
2005
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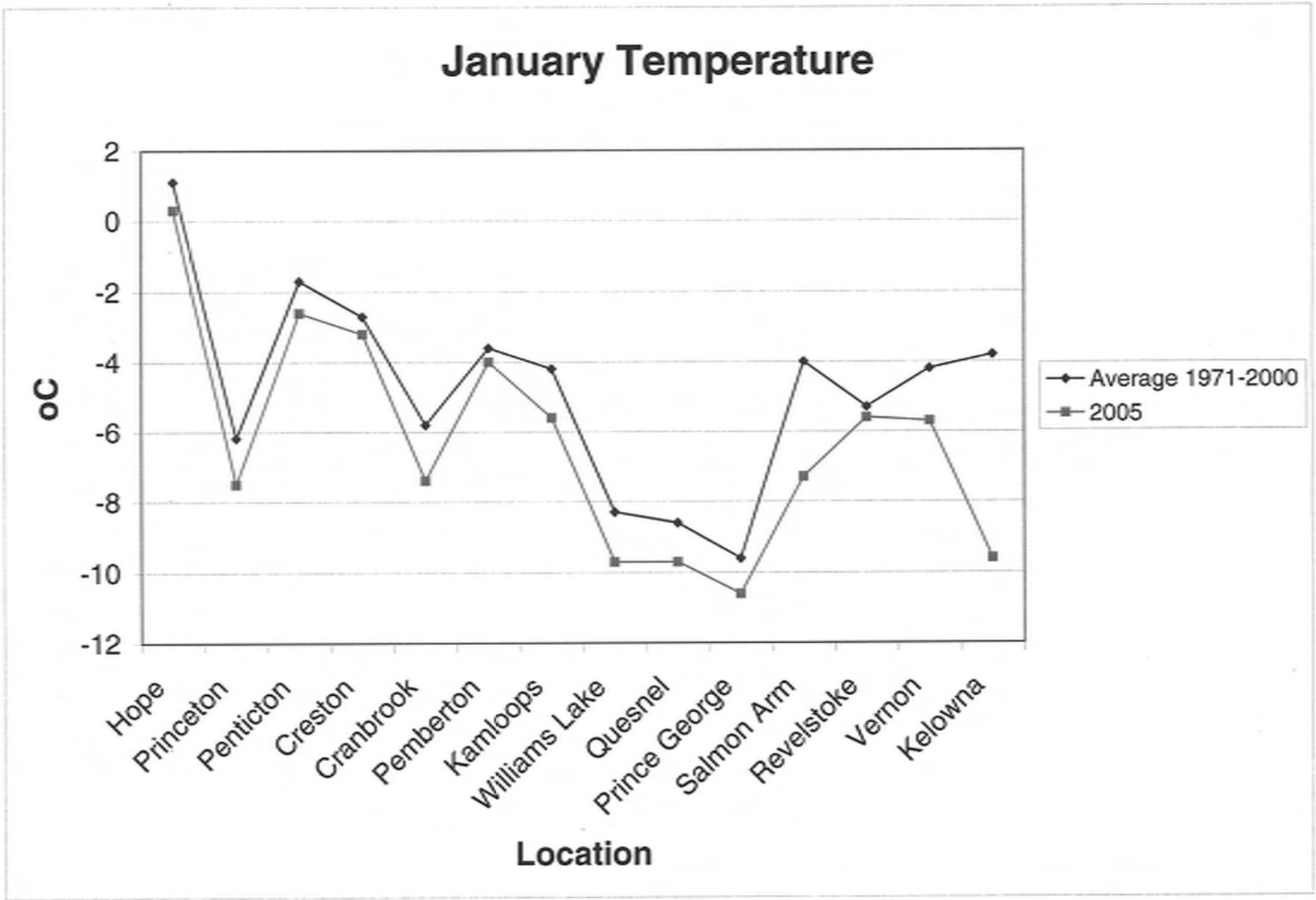
Penticton
Cranbrook
Pemberton/Lillooet
Kamloops
Williams Lake
Quesnel
Prince George
Revelstoke
Kelowna
Location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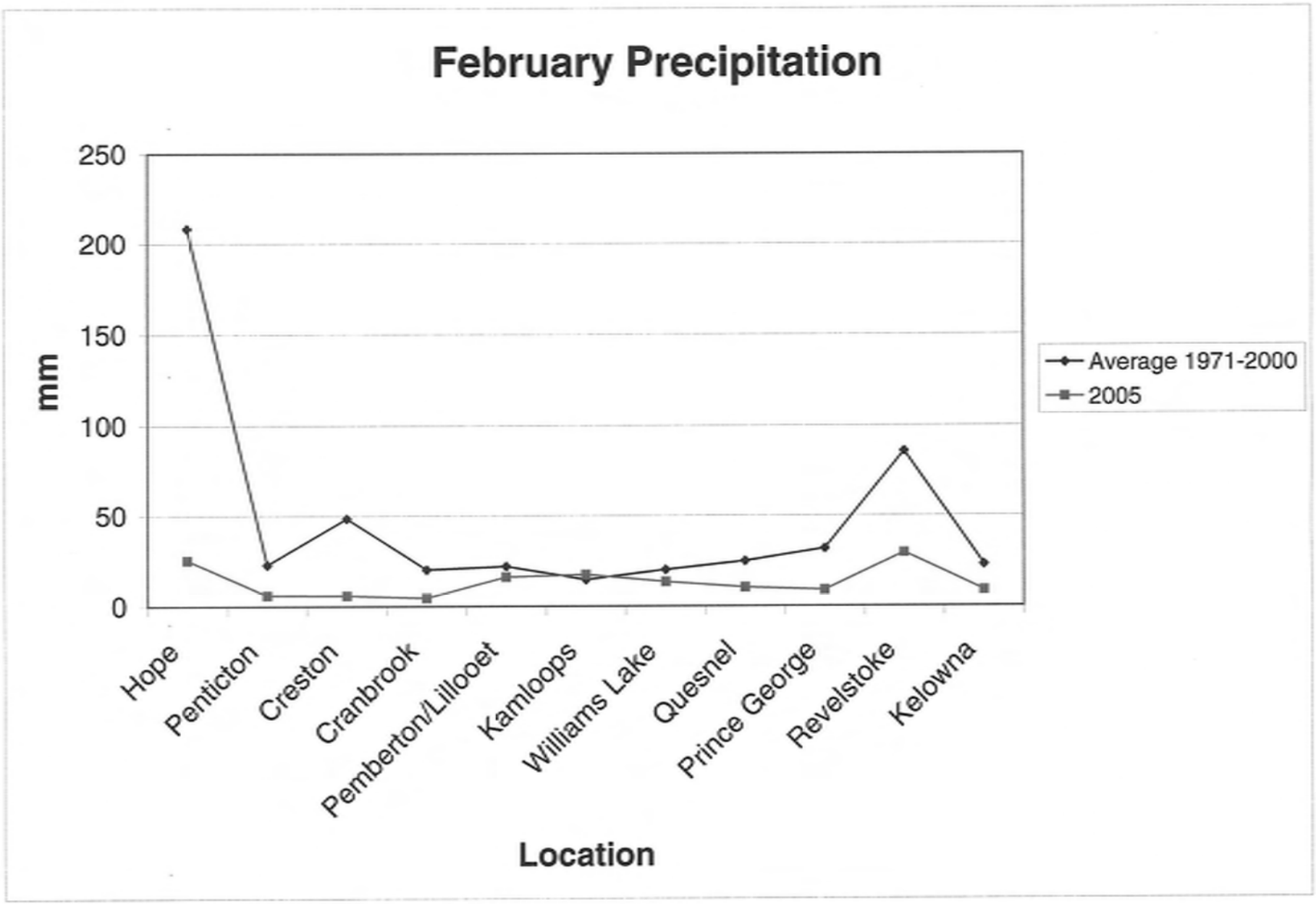
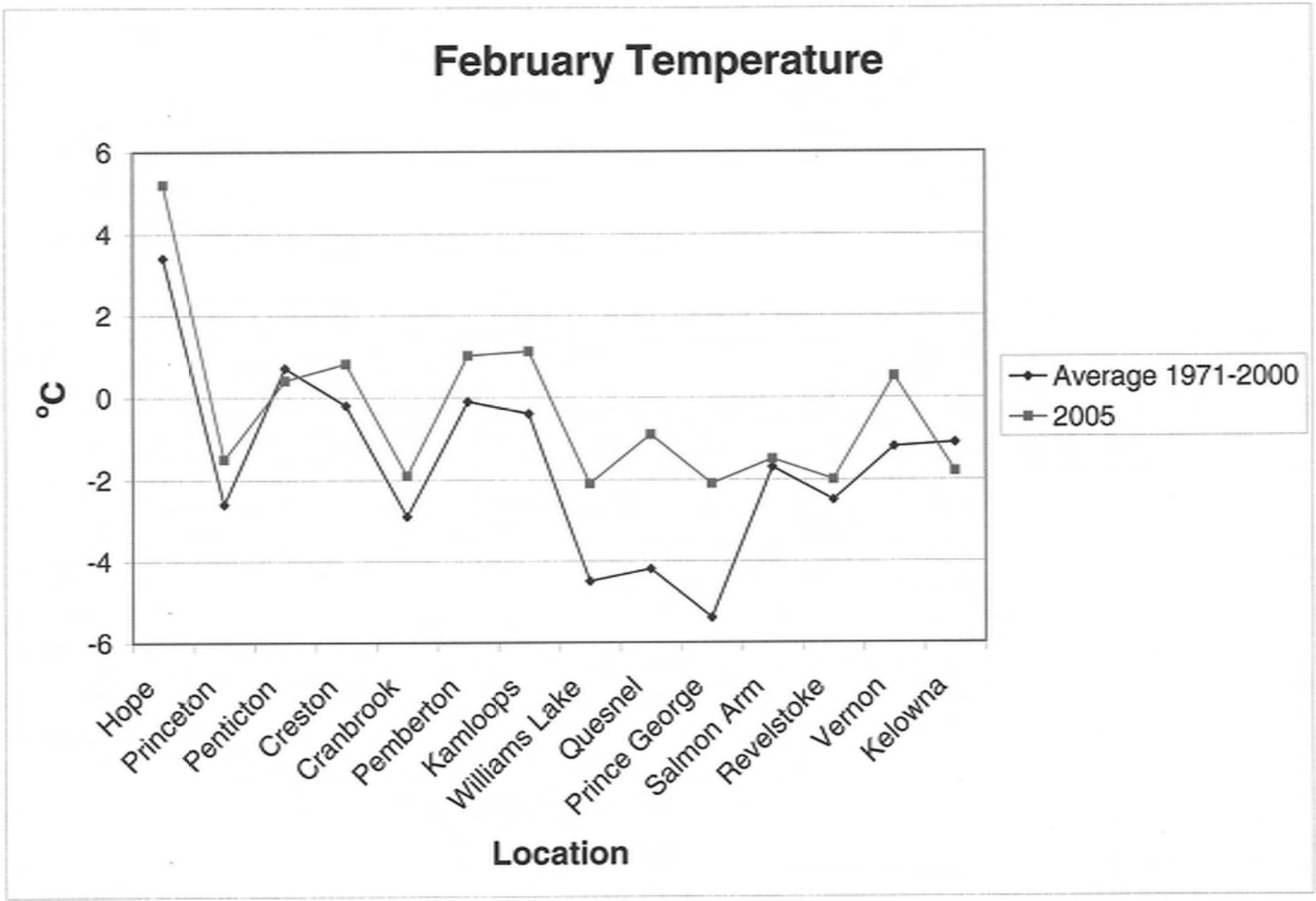
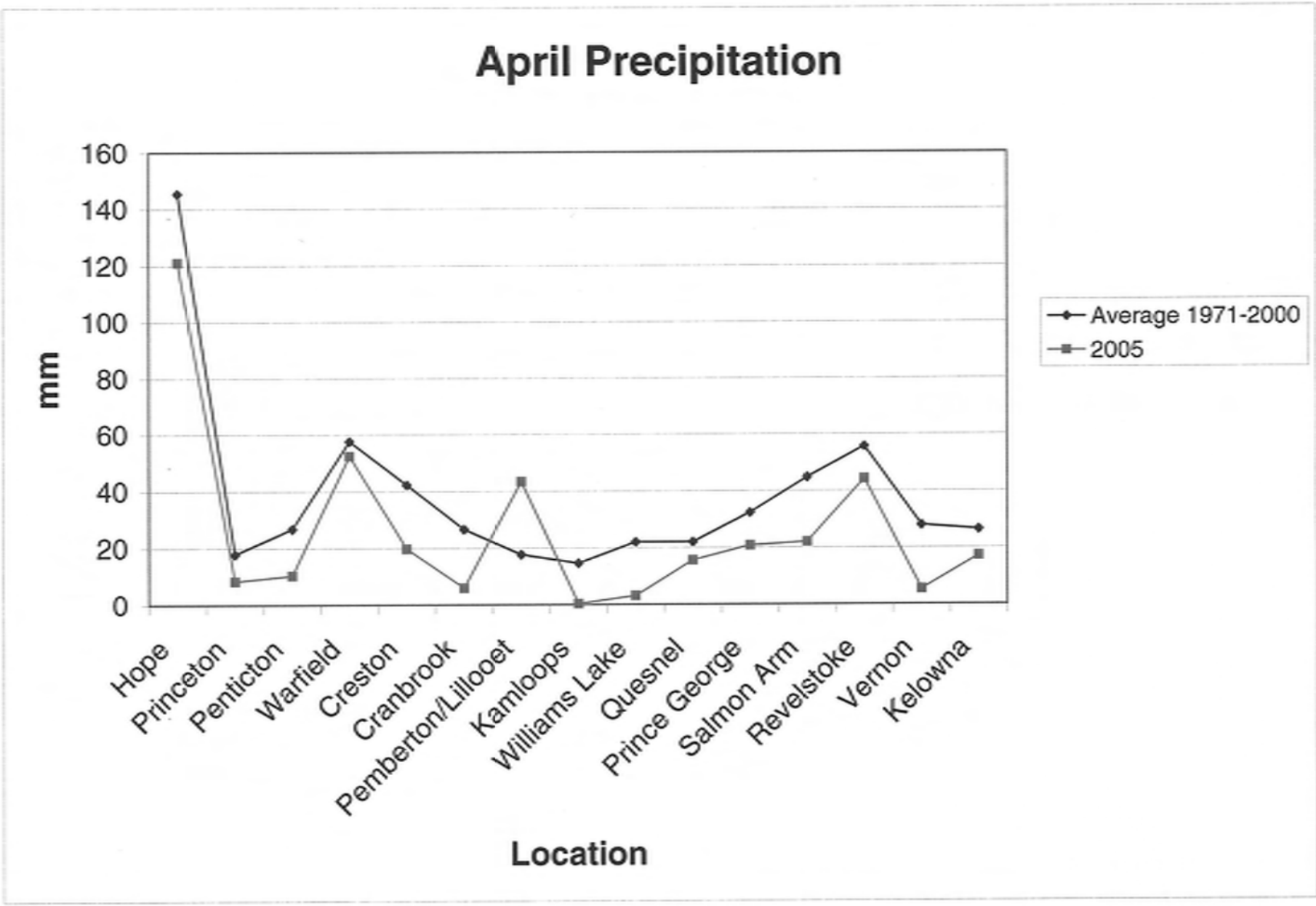
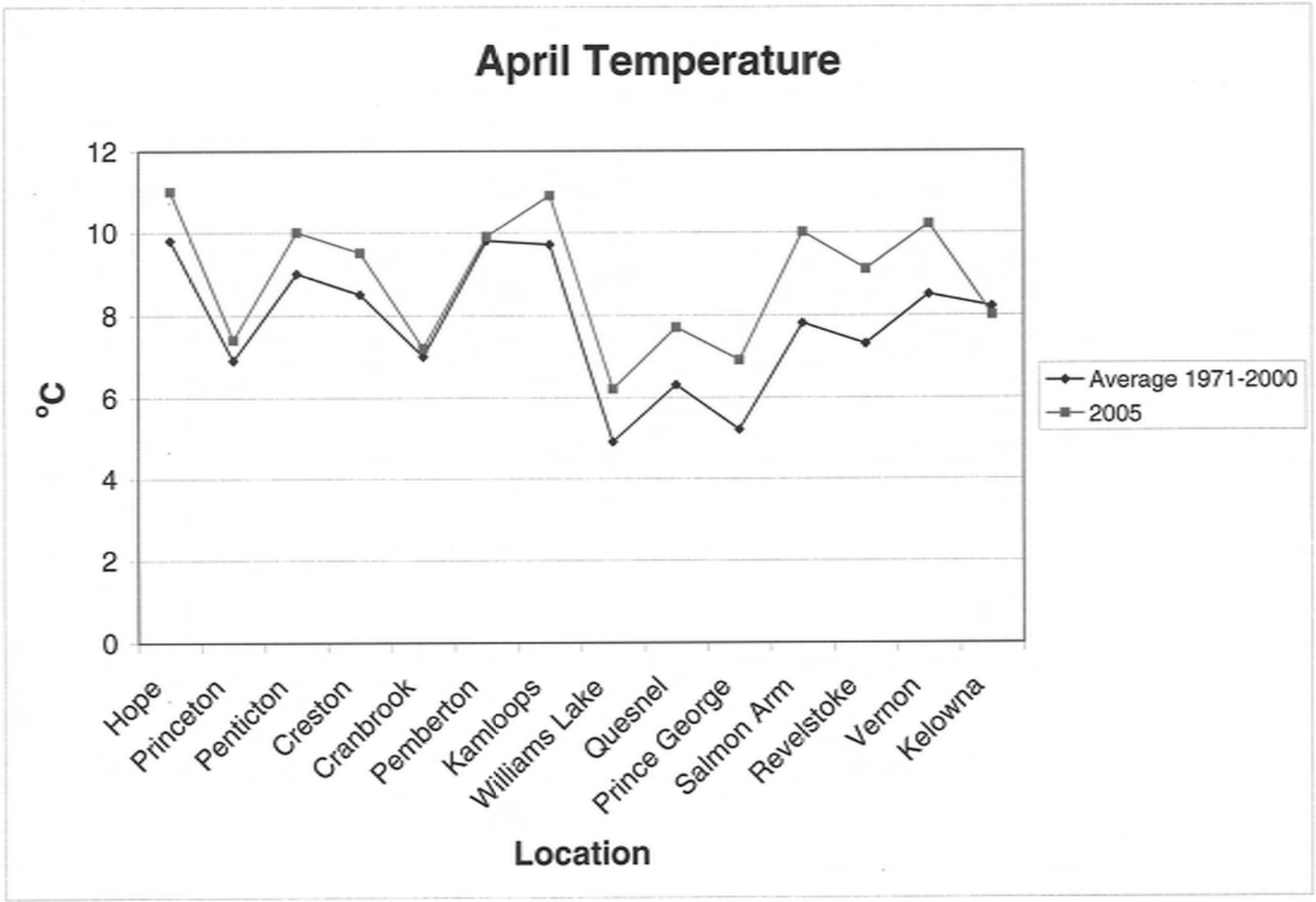
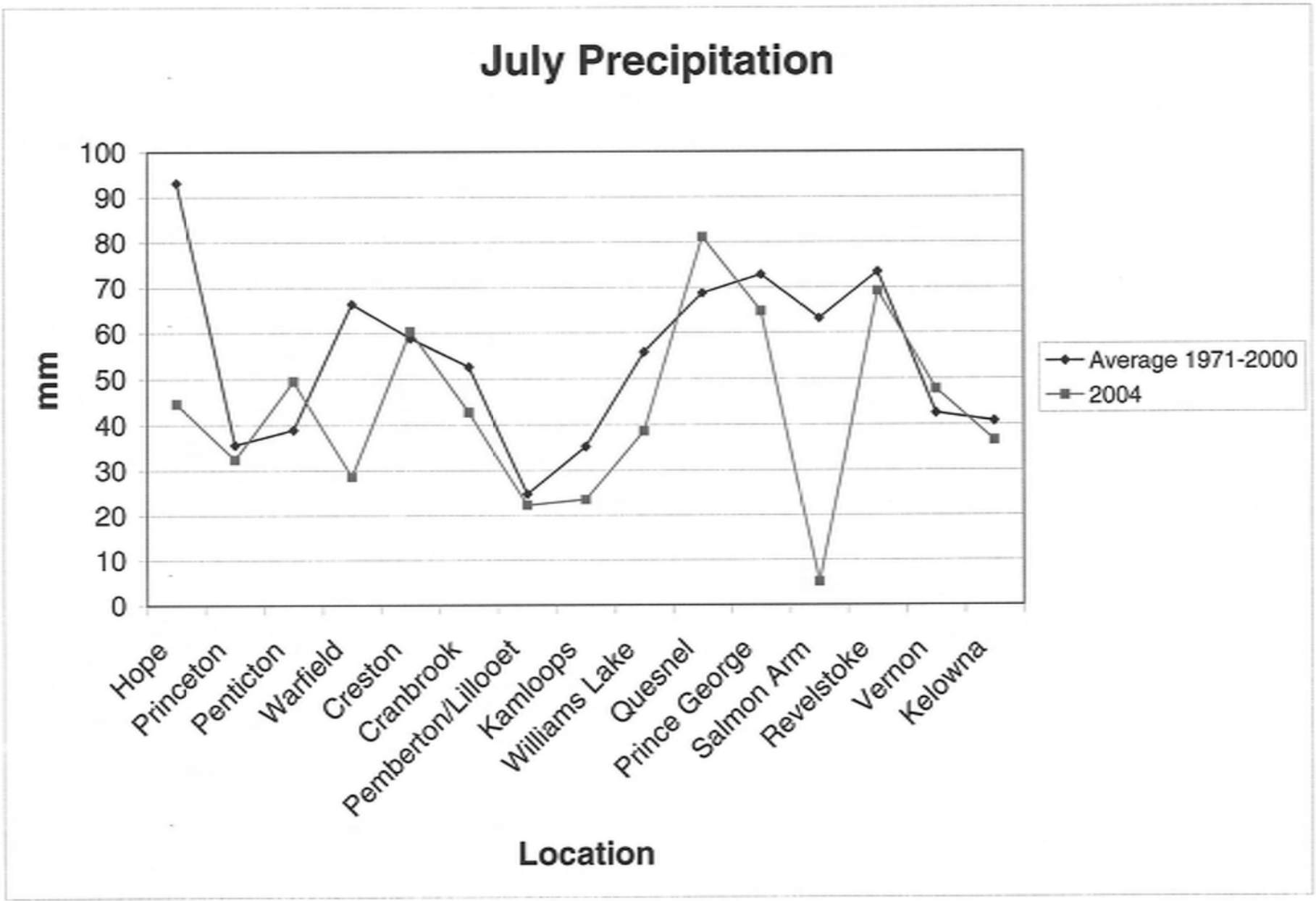
2
0
-2
-4
-6
-8
-10
-12
oC
Hope
Princeton
Penticton
Creston
Cranbrook
Pemberton
Kamloops
Williams Lake
Quesnel
Prince George
Salmon Arm
Revelstoke
Vernon
Kelowna
Location
Average 1971-2000
2005

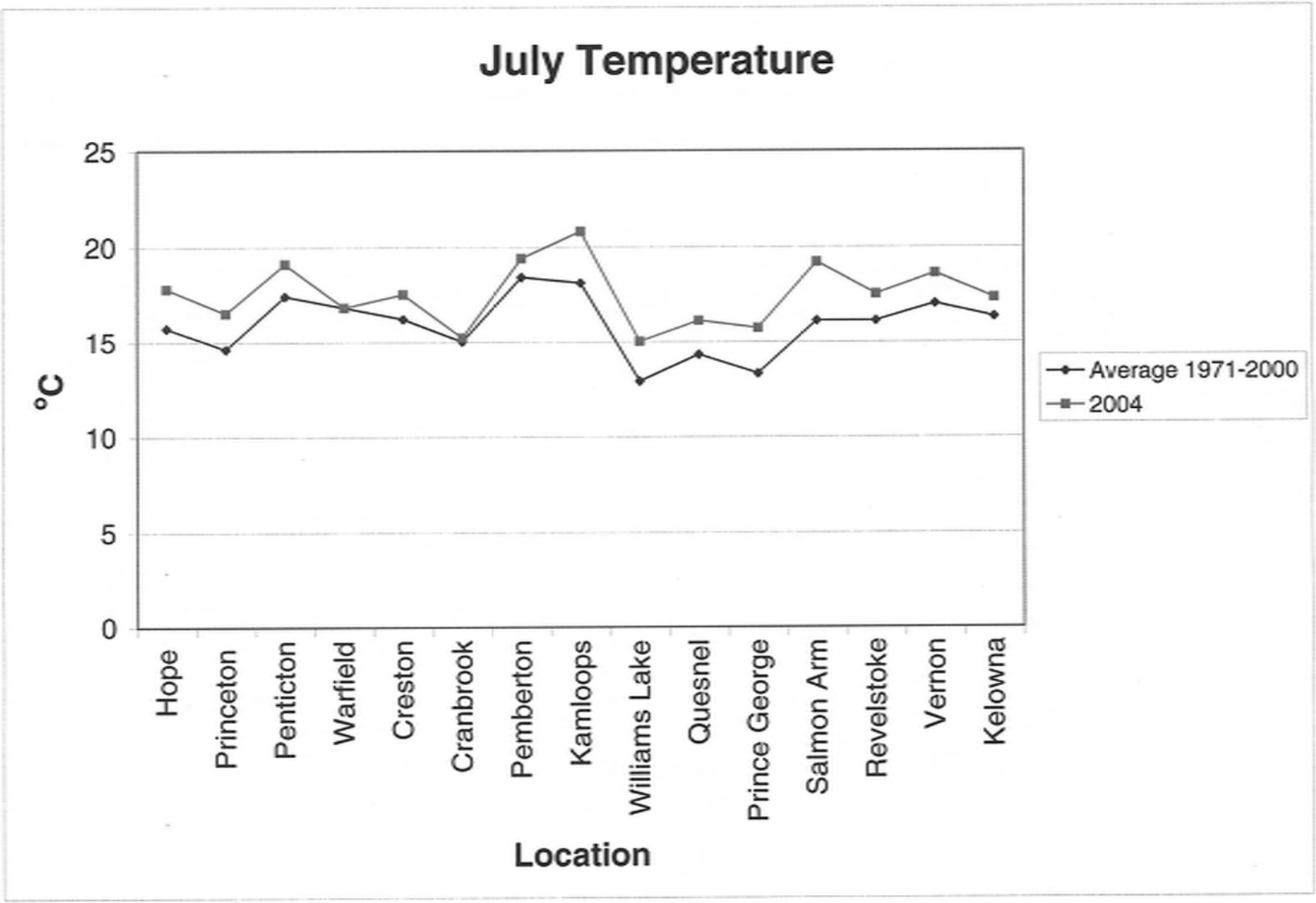

February Precipitation
250
200
150
100
50
0
mm
Average 1971-2000
2005
Hope
Penticton
Creston
Cranbrook
Pemberton/Lillooet
Kamloops
Williams Lake
Quesnel
Prince George
Revelstoke
Kelowna
Location

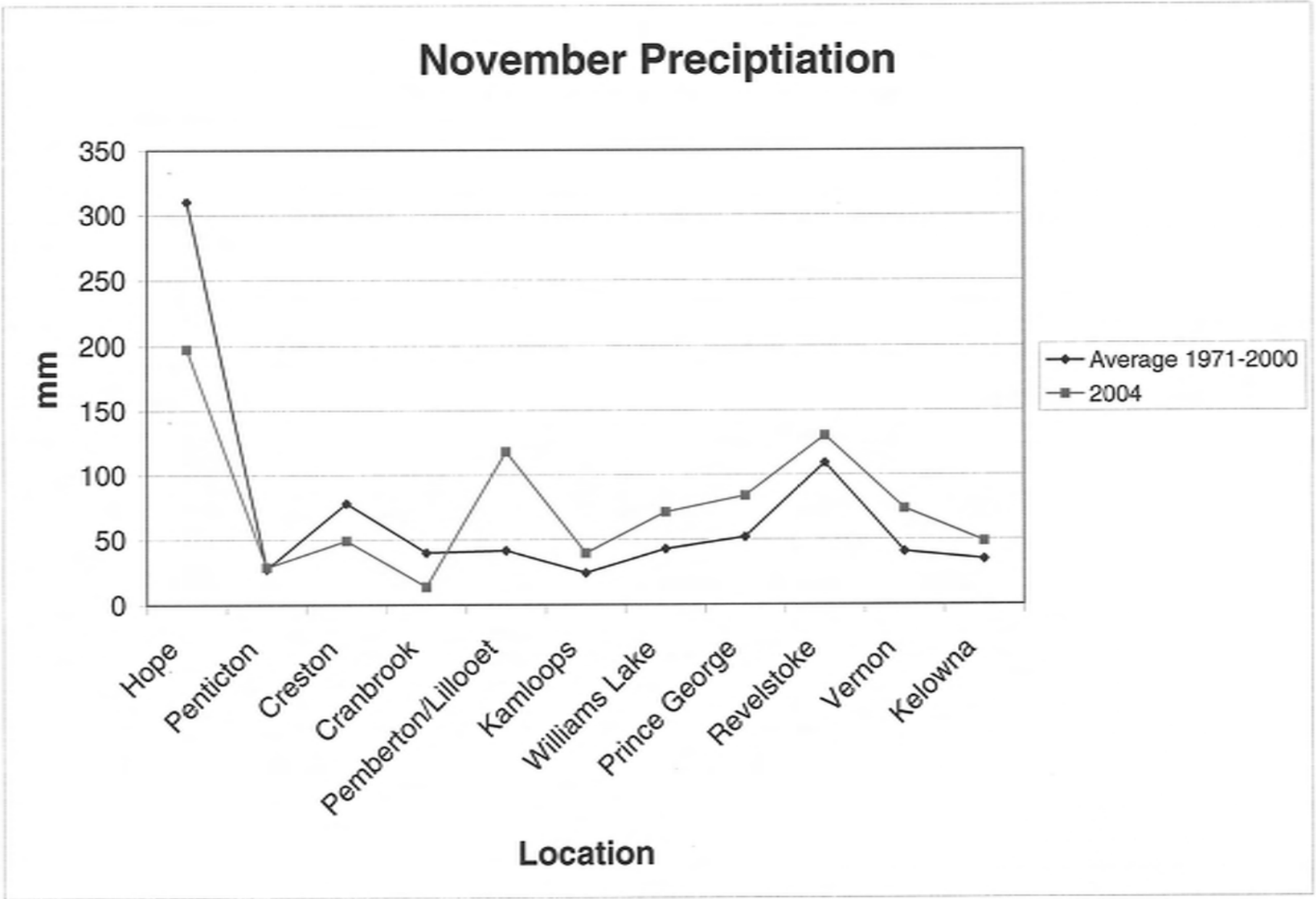

February Temperature
6
4
2
0
-2
-4
-6
°C
Hope
Princeton
Penticton
Creston
Cranbrook
Pemberton
Kamloops
Williams Lake
Quesnel
Prince George
Salmon Arm
Revelstoke
Vernon
Kelowna
Location
Average 1971-2000
2005

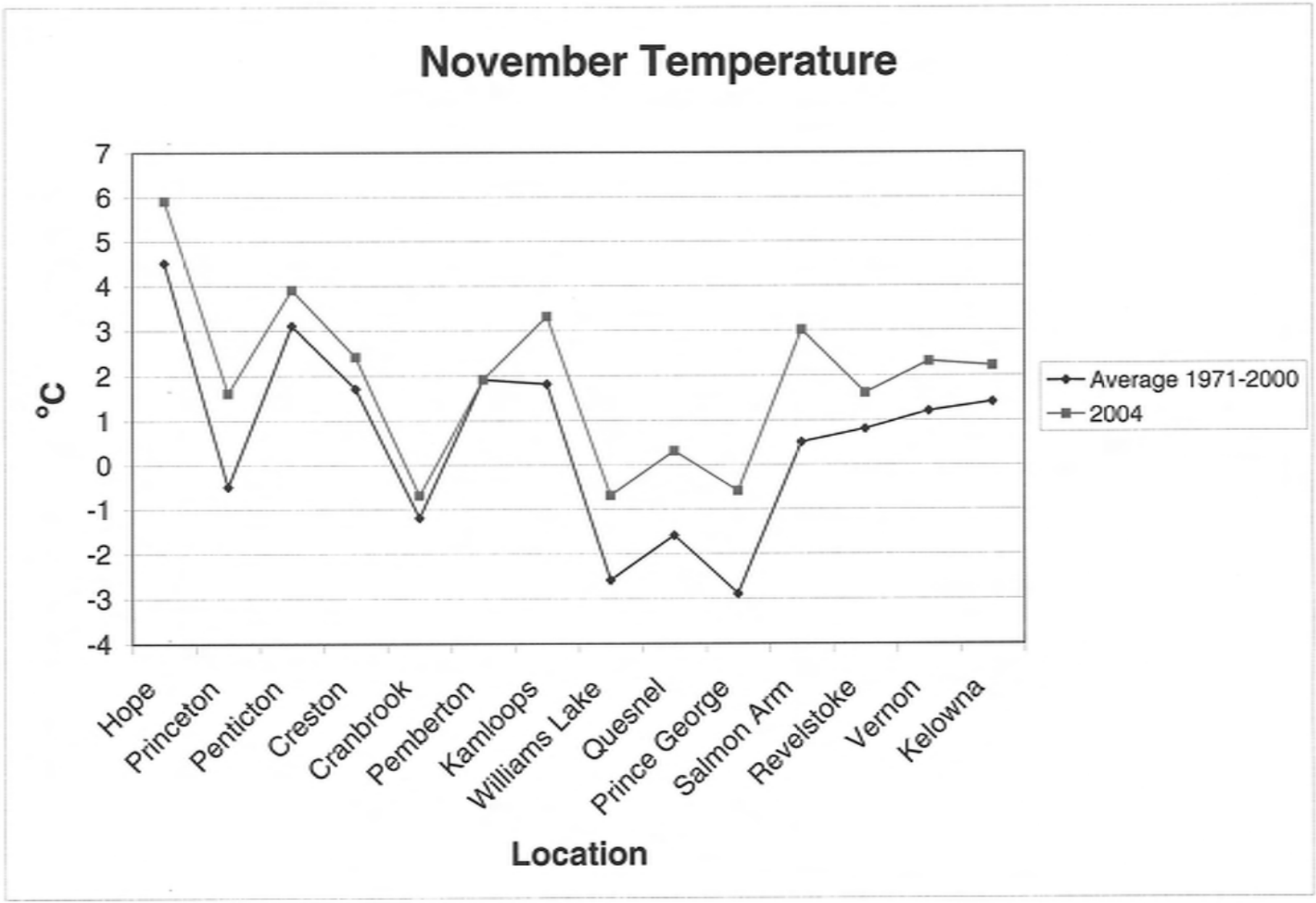

April Precipitation
160
140
120
100
80
60
40
20
0
mm
Average 1971-2000
2005
Hope
Princeton
Penticton
Warfield
Creston
Cranbrook
Pemberton/Lillooet
Kamloops
Williams Lake
Quesnel
Prince George
Salmon Arm
Revelstoke
Vernon
Kelowna
Location


April Temperature
12
10
8
6
4
2
0
°C
Hope
Princeton
Penticton
Creston
Cranbrook
Pemberton
Kamloops
Williams Lake
Quesnel
Prince George
Salmon Arm
Revelstoke
Vernon
Kelowna
Location
Average 1971-2000
2005


July Precipitation
mm
100
90
80
70
60
50
40
30
20
10
0
Hope
Princeton
Penticton
Warfield
Creston
Cranbrook
Pemberton/Lillooet
Kamloops
Williams Lake
Quesnel
Prince George
Salmon Arm
Revelstoke
Vernon
Kelowna
Location
Average 1971-2000
2004


July Temperature
25
20
15
10
5
0
°C
Hope
Princeton
Penticton
Warfield
Creston
Cranbrook
Pemberton
Kamloops
Williams Lake
Quesnel
Prince George
Salmon Arm
Revelstoke
Vernon
Kelowna
Location
Average 1971-2000
2004


November Preciptiation
350
300
250
200
150
100
50
0
mm
Hope
Penticton
Creston
Cranbrook
Pemberton/Lillooet
Kamloops
Williams Lake
Prince George
Revelstoke
Vernon
Kelowna
Location
Average 1971-2000
2004


November Temperature
°C
7
6
5
4
3
2
1
0
-1
-2
-3
-4
Hope
Princeton
Penticton
Creston
Cranbrook
Pemberton
Kamloops
Williams Lake
Quesnel
Prince George
Salmon Arm
Revelstoke
Vernon
Kelowna
Location
Average 1971-2000
2004

APPENDIX C
Background Concentrations

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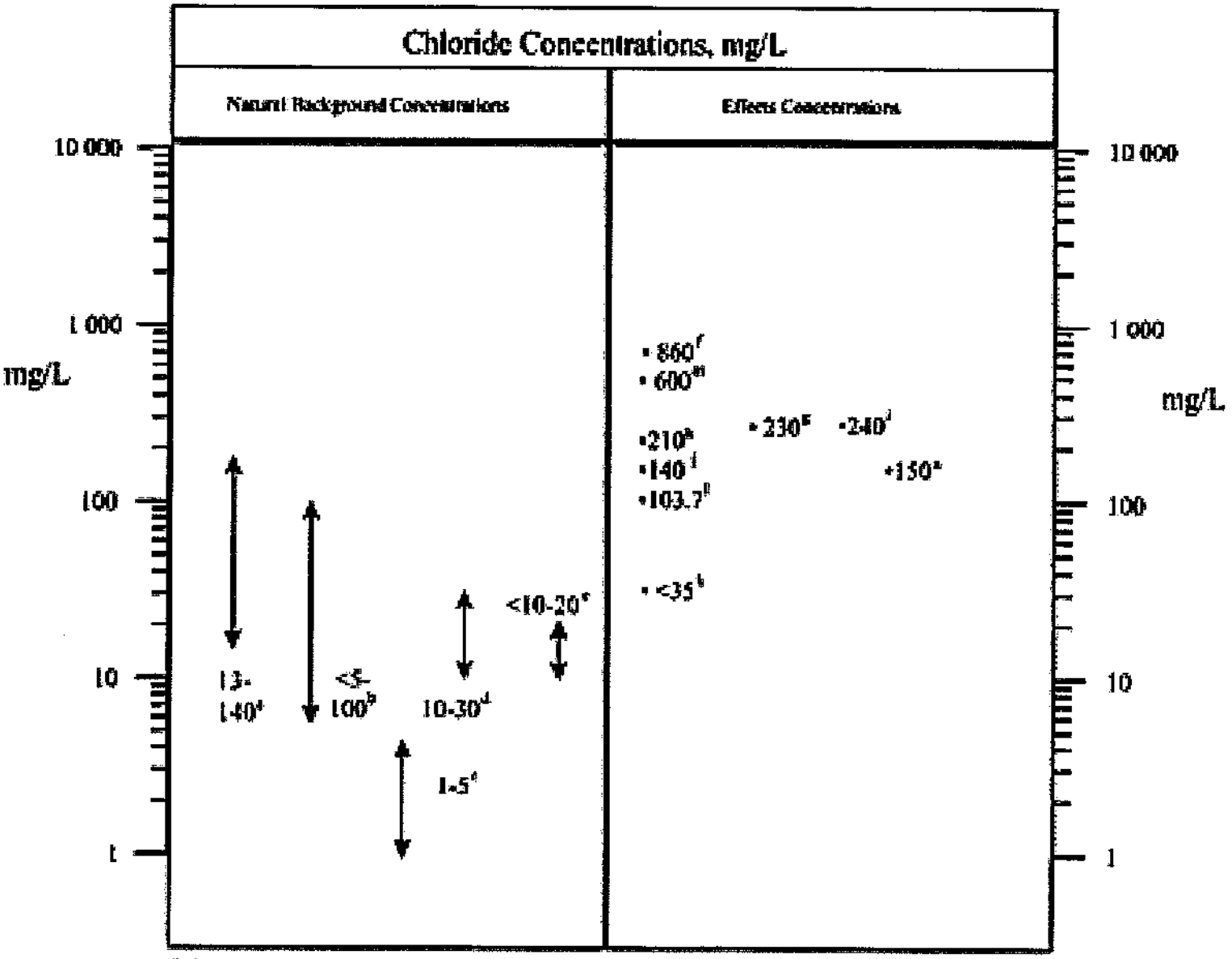
Figure 1. Comparison of natural background concentrations of chloride in Canadian surface water and thresholds for adverse biological effects. The column on the left provides an overview of average background concentrations for five regions in Canada. The column on the right identifies levels at which certain impacts may occur. Data in this figure helps characterize average background concentrations for different areas and impacts that can occur at different concentrations.



[a] British Columbia (Mayer et al., 1999)
[b] Prairies (Mayer et al., 1999)
[c] Canadian Shield (Mayer et. al., 1999)
[d] St. Lawrence Lowlands and Great Lakes (Mayer et al., 1999)
[e] Atlantic Canada (Mayer et al., 1999)
[f] Species should not be negatively affected if one-hour average concentration of Cl does not exceed value more than once every three years. (U.S. EPA 1988)
[g] Species should not be negatively affected if 4-day average concentration of Cl does not exceed value more than once every three years. (U.S. EPA 1988)
[h] Based on predicted data, 5% of species would be negatively affected (median lethal concentration). (Evans and Frick, 2001)
[i] Based on predicted data, 10% of species would be negatively affected (median lethal concentration). (Evans and Frick, 2001)
[j] Estimated no effects value derived from *Ceriodaphnia dubia* 4-day LC_{50} (Cowgill and Milazzo, 1990)
[k] Estimated no effects value derived from 33-day LOEC survival for fathead minnow (Birge et al., 1985)
[l] Chloride concentration in lower layers of water body associated with meromixis (Smol et al., 1985)
[m] To protect freshwater aquatic life from acute and lethal effects, the maximum concentration of total chloride at any time should not exceed this value. (*BC Ambient Water Quality Guidelines for Chloride, 2002*)
[n] To protect freshwater aquatic life from chronic effects, the 30-day average concentration of total chloride should not exceed this value. (*BC Ambient Quality Guidelines for Chloride, 2002*)

APPENDIX D
Site Logs

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MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

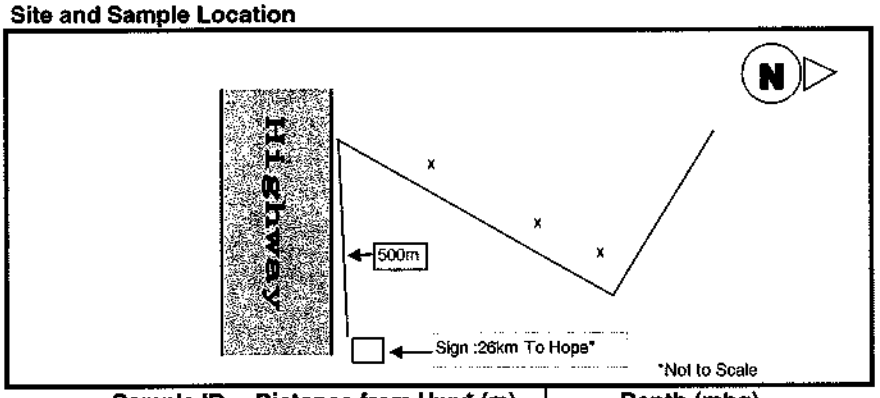
Date: 27-Jul-04
Time: 14:30
Weather/Temp: Sunny, hot
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 1
Highway: 5 South
Location: 25km East of Hope
Benchmark*: 10m West of 0.349 pole
Number of Highway Lanes: Direction: East # of Lanes: 2 (Sampled East bound shoulder)
Direction: West # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0628309	2 - 10U0628307	3 - 10U0628308
UTM 5484066	UTM 5484067	UTM 5484066

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1.5	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	2.5	mid	Mid - 0.2 - 0.4 mbg
Sa 3	3.5	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	Sand and gravel	Sand and gravel	Sand and gravel
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Slopes West

*Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder
Background sample taken about 18m from the highway

MINISTRY OF TRANSPORTATION and HIGHWAYS

Baseline Study - Salt Management Plan

Phase 1 - 27 Sites and Conductivity Survey

BC Highways

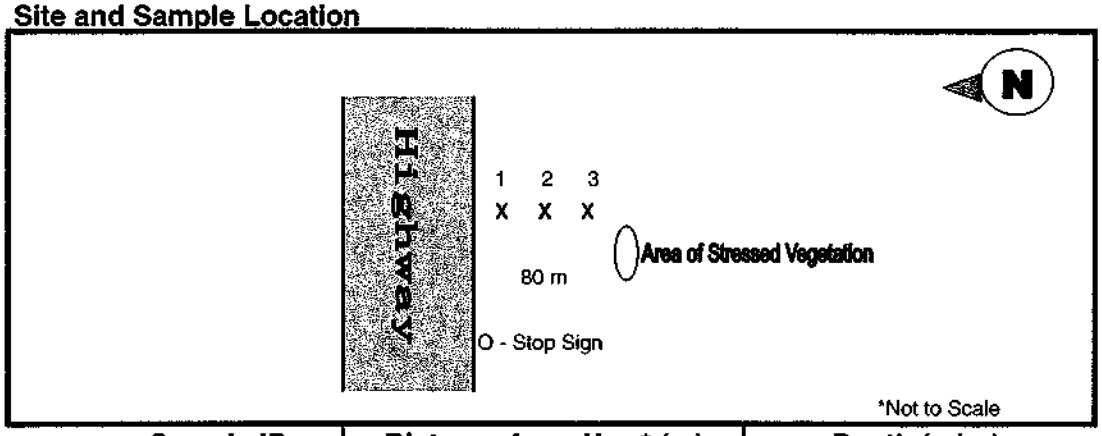
Site Field Inspection Report

Date: 13-Jul-04
Time: 8:55 pm (pst)
Weather/Temp: Clear/approximately 25 C
Field Personnel: Tony Wonghen

Site Identification: Site 2 - Manning Park
Highway: Highway 3
Location: Manning Park - East of Rhodendron Road Side Attraction (Rest Stop)
Benchmark*: 80 m East of East bound Stop Sign (18 m West of "28 km sign)
Number of Highway Lanes: Direction: E # of Lanes: 2 (Sampled East bound shoulder)
Direction: W # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates): 10 U 0640595 Accuracy 7m
UTM 5453133

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	2	Shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	3	Mid	Mid - 0.2 - 0.4 mbg
Sa 3	4	Deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	gravelly co. Sand, with fibrous roots	gravelly co. Sand	sandy co. Gravel
Soil Colour:	brownish grey	medium brown	medium brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): [redacted] N
Predominant Ground Slope: gentle East to West slope (approx 40:1)

***Notes**

- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade

MINISTRY OF TRANSPORTATION and HIGHWAYS

Baseline Study - Salt Management Plan

Phase 1 - 27 Sites and Conductivity Survey

BC Highways

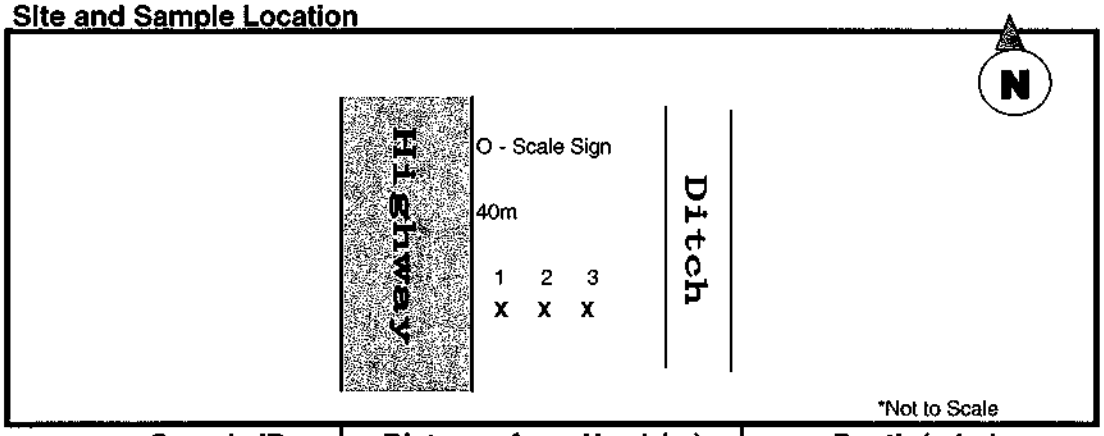
Site Field Inspection Report

Date: 14-Jul-04
Time: 5:10 pm (pst)
Weather/Temp: Sunny/approximately 30 C
Field Personnel: Tony Wonghen

Site Identification: Site 3 - Kerameous/Pentiction
Highway: Highway 3B@ Highway 97 Junction
Location: South of Highway 3B and Highway 97 Junction
Benchmark*: 40m south of Scale Sign (reads: "SCALE SOUTHBOUND TRUCKS EXEMPT")
Number of Highway Lanes: Direction: N # of Lanes: 1 (Sampled East bound shoulder)
Direction: S # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates): 11 U 0310303 Accuracy 8m
UTM 5473238

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	3	Shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	4	Deep	Mid - 0.2 - 0.4 mbg
Sa 3	5	Mid	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	gravelly med Sand	sandy med. Gravel	Sand with gravel, some trace
			organics
Soil Colour:	grey	med brown/grey	med brown/grey
Relative Moisture Level:	dry	damp	damp

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope: gentle North to South slope (approx 20:1)

***Notes**

- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

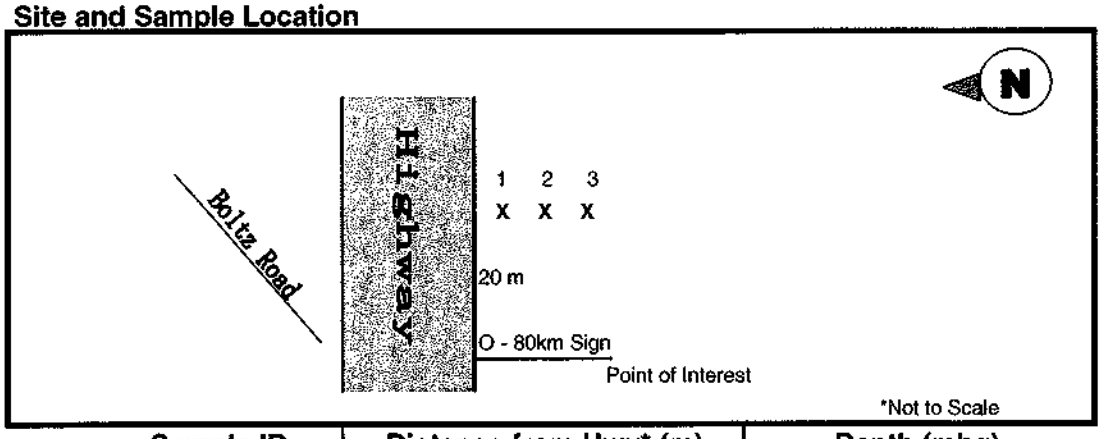
Site Field Inspection Report

Date: 14-Jul-04
Time: 8:15 pm (pst)
Weather/Temp: Clear / approximately 25 C
Field Personnel: Tony Wonghen

Site Identification: Site 4 - Greenwood / Midway
Highway: Highway 3 @ Boltz Road N of Greenwood / S of Midway
Location: At the Boundary Falls smelter and Dewdney Trail Point of Interest
Benchmark*: 20m east of speed sign (reads: "80 km/hr left turn")
Number of Highway Lanes: Direction: E # of Lanes: 1 (Sampled East bound shoulder)
Direction: W # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates): 11 U 0375464 Accuracy 7m
UTM 5433249

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1	Mid	Shallow - 0.0 - 0.2 mbg
Sa 2	2	Shallow	Mid - 0.2 - 0.4 mbg
Sa 3	3	Mid	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	gravelly med Sand	gravelly medium sand	Sand with gravel, some trace organics
Soil Colour:	grey	grey	med brown
Relative Moisture Level:	dry	dry	dry

Field Observations
Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope: Flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade

MINISTRY OF TRANSPORTATION and HIGHWAYS

Baseline Study - Salt Management Plan

Phase 1 - 27 Sites and Conductivity Survey

BC Highways

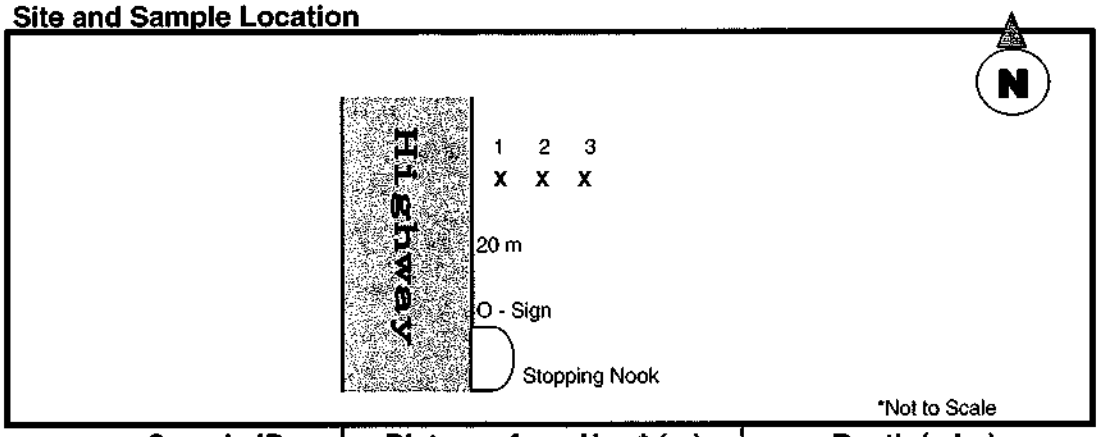
Site Field Inspection Report

Date: 15-Jul-04
Time: 9:30 am (pst)
Weather/Temp: Sunny / approx 30 C
Field Personnel: Tony Wonghen

Site Identification: Site 5 - Rossland
Highway: Highway 3B @ Boltz Road N of Greenwood / S of Midway
Location: Stopping nook on north bound Lane
Benchmark*: 20m north of sign
Number of Highway Lanes: Direction: N # of Lanes: 1 (Sampled East bound shoulder)
Direction: S # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates): 11 U 0439584 Accuracy 6m
UTM 5442268

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1	Shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	2	Mid	Mid - 0.2 - 0.4 mbg
Sa 3	3	Deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	gravelly med Sand	gravelly medium Sand	sandy fine Gravel
		trace organics	
Soil Colour:	grey	med brown	med to dk brown
Relative Moisture Level:	dry	damp	damp

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope: Flat - slight to south to north slope (approx 50:1)

***Notes**

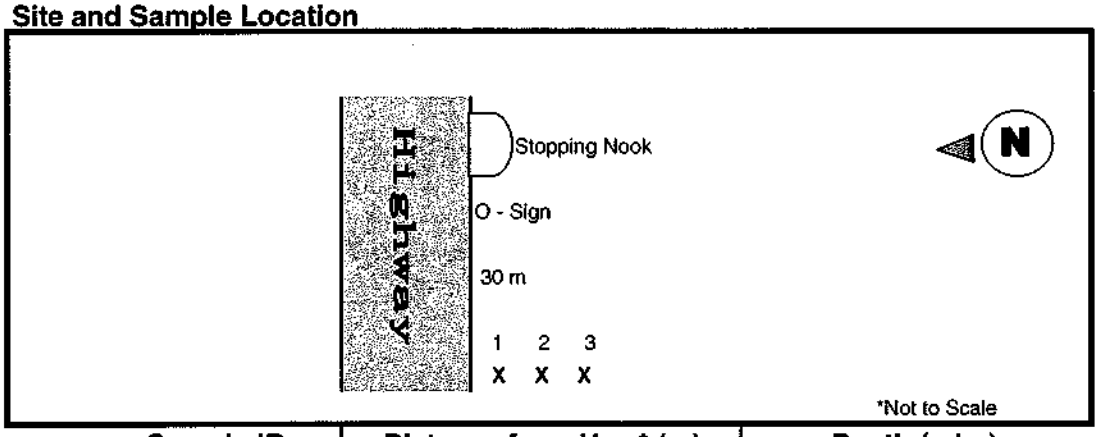
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

Date:	16-Jul-04				
Time:	6:25 pm (pst)				
Weather/Temp:	Sunny / approximately 25 C				
Field Personnel:	Tony Wonghen				
Site Identification:	Site 6 - Creston				
Highway:	Highway 21				
Location:	Southbound to Spokane (1.65 km South of Creston Landfill)				
Benchmark*:	30m South of sign located adjacent to stopping nook				
Number of Highway Lanes:	Direction:	S	# of Lanes:	1	(Sampled East bound shoulder)
	Direction:	N	# of Lanes:	1	
Distance of Nearest Water Body:					
GPS (UTM Coordinates):	11 U 0535743			Accuracy 7m	
	UTM 5430542				

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1	Shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	2	Mid	Mid - 0.2 - 0.4 mbg
Sa 3	3	Deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	gravelly med Sand	gravelly med sand	Sand with gravel, occasional cobbles
Soil Colour:	lt. brown	med brown	med brown
Relative Moisture Level:	dry	damp	damp

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y N

Predominant Ground Slope: Flat (Highway cut into side of embankment)

***Notes**

- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

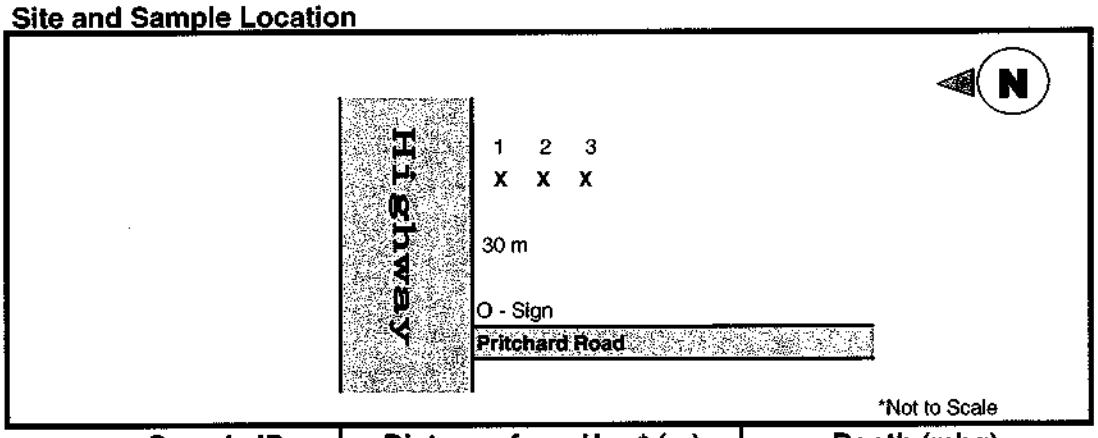
Site Field Inspection Report

Date: 16-Jul-04
Time: 11:50 pm (pst)
Weather/Temp: Sunny / approximately 30 C
Field Personnel: Tony Wonghen

Site Identification: Site 7 - Cranbrook
Highway: Highway 93 / Highway 3
Location: East of Cranbrook @ Pritchard Road (Isadore Cycle Route Canyon)
Benchmark*: 50 m E of Stop sign
Number of Highway Lanes: Direction: E # of Lanes: 1 (Sampled East bound shoulder)
Direction: W # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates): 11 U 0601208 Accuracy 7m
UTM 5485988

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	0.5	Shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	1.5	Mid	Mid - 0.2 - 0.4 mbg
Sa 3	2.5	Deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	med to co Sand	gravelly fine sand	Sand with medium gravel,
		some silt	trace silt
Soil Colour:	grey	grey / med brown	med brown
Relative Moisture Level:	dry	dry	damp

Field Observations
Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope: Flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

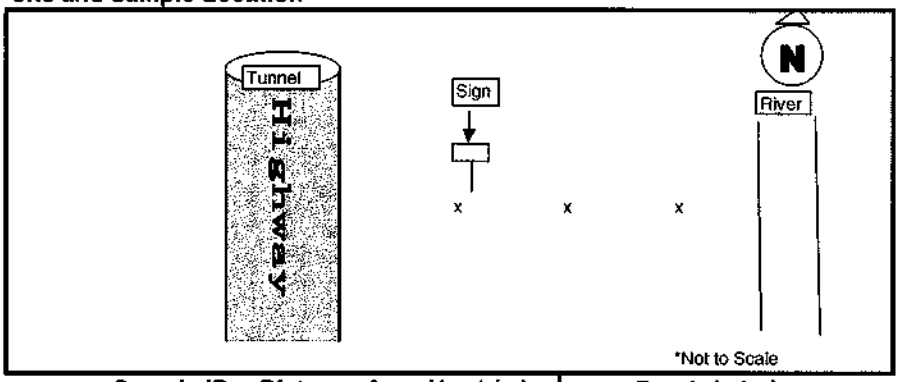
Date: 25-Jul-04
Time: 12:30
Weather/Temp: Sunny
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 8
Highway: 93
Location: 1km North of Radium Hot Springs
Benchmark*: Beside sign "Tunnel use lights" just before the tunnel entrance
Number of Highway Lanes: Direction: North # of Lanes: 1 (Sampled East bound shoulder)
Direction: South # of Lanes: 1

Distance of Nearest Water Body: 0m from a river
GPS (UTM Coordinates):

1 - 11U0568500	2 - 11U0568499	3 - 11U0568499
UTM 5609734	UTM 5609734	UTM 5609735

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1m	mid	Shallow - 0.0 - 0.2 mbg
Sa 2	3m	shallow	Mid - 0.2 - 0.4 mbg
Sa 3	5m	deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	sand and gravel	sand and gravel	sand and gravel, topsoil
Soil Colour:	dry	dry	dry
Relative Moisture Level:	brown	brown	brown

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y | N
Predominant Ground Slope: Flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

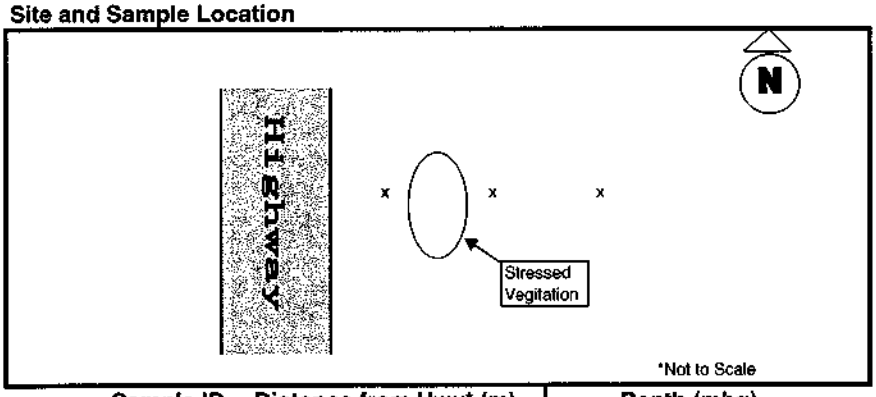
Date: 20-Jul-04
Time: 13:30
Weather/Temp: Partially cloudy, 15°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: site 9 - SA4 Lilloet
Highway: 99 North
Location: 50km North of Pemberton
Benchmark*:
Number of Highway Lanes: Direction: ____ # of Lanes: 1 (Sampled East bound shoulder)
Direction: ____ # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0543751	2 - 10U0543748	3 - 10U0543749
UTM 5581469	UTM 5581470	UTM 5581469

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1m	mid	Shallow - 0.0 - 0.2 mbg
Sa 2	6m	deep	Mid - 0.2 - 0.4 mbg
Sa 3	12m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	Sand, some gravel	Sand, some gravel	Sand, trace silt and gravel
Soil Colour:	Brown	Brown	Grey
Relative Moisture Level:	Damp	Damp	Damp

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Slopes to the East

*Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

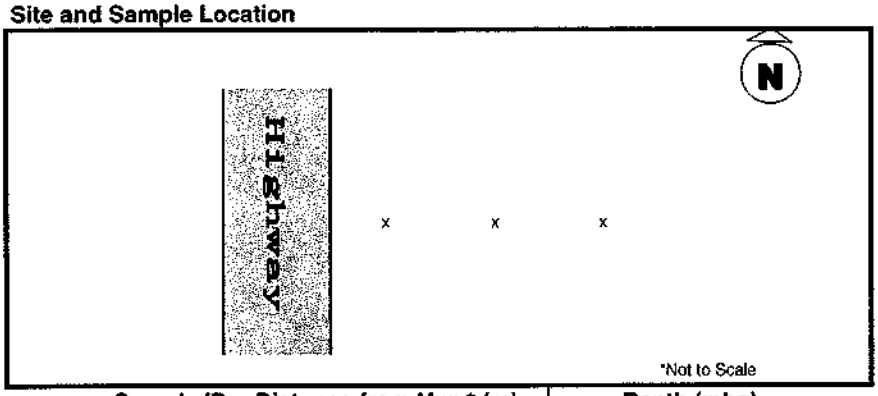
Date: 20-Jul-04
Time: 16:10
Weather/Temp: Sunny, 20°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 10
Highway: 99 North
Location: 25km South of Cache Creek
Benchmark*:
Number of Highway Lanes: Direction: North # of Lanes: 1 (Sampled East bound shoulder)
Direction: South # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0602649	2 - 10U0602655	3 - 10U0602668
UTM 5635086	UTM 5635085	UTM 5635076

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	10m	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	20m	mid	Mid - 0.2 - 0.4 mbg
Sa 3		shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Sand and gravel, roots	Sand, some gravel, topsoil	Sand
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): **Y** | **N**
Predominant Ground Slope: Slopes to the East

*Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
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BC Highways

Site Field Inspection Report

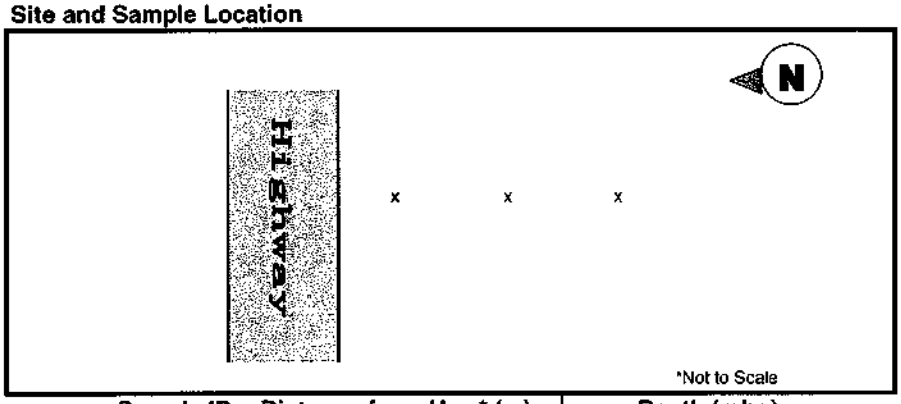
Date: 20-Jul-04
Time: 17:30
Weather/Temp: Cloudy, 20°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 11
Highway: 97 East
Location: 20km East of Kamloops
Benchmark*: 2m East of the Copelands - 5208 Highway 97
Number of Highway Lanes: Direction: West # of Lanes: 1 (Sampled East bound shoulder)
Direction: East # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0670925	2 - 10U0670920	3 - 10U0670921
UMT 5617609	UTM 5617594	UTM 5617601

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	4m	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	6m	shallow	Mid - 0.2 - 0.4 mbg
Sa 3		mid	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Sand, roots, stone, gravel	Topsoil	Topsoil
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y | N
Predominant Ground Slope: Flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
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BC Highways

Site Field Inspection Report

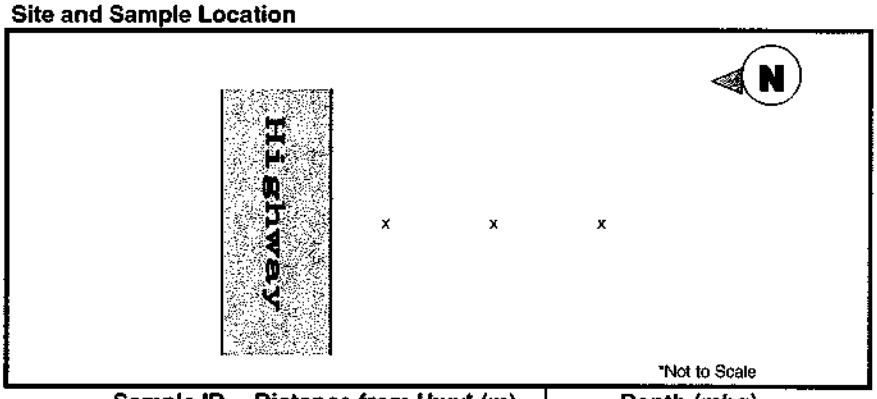
Date: 21-Jul-04
Time: 11:55
Weather/Temp: Cloudy, 15°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 12
Highway: Sun Peaks Road
Location:
Benchmark*:
Number of Highway Lanes: Direction: North # of Lanes: 1 (Sampled East bound shoulder)
Direction: South # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0706546	2 - 10U0706545	3 - 10U0706544
UTM 5636508	UTM5636499	UTM 5636497

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	0.5m	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	2.5m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	4.5m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Sand and gravel	Topsoil	Topsoil
Soil Colour:	brown	brown	brown
Relative Moisture Level:	damp	damp	damp

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope:

*Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
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BC Highways

Site Field Inspection Report

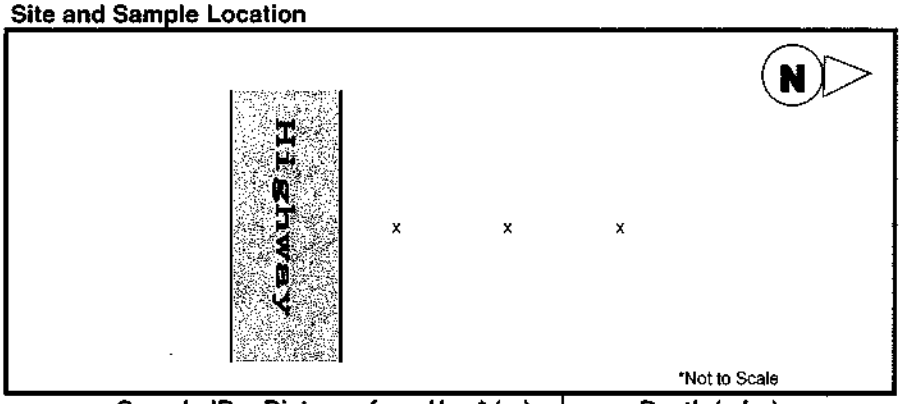
Date: 21-Jul-04
Time: 15:30
Weather/Temp: Sunny, 20°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 13
Highway: 24 West
Location: 1km West of Lone Butte
Benchmark*:
Number of Highway Lanes: Direction: West # of Lanes: 1 (Sampled East bound shoulder)
Direction: East # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0623216	2 - 10U0623212	3 - 10U0623209
UTM 5712862	UTM 5712865	UTM 5712867

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	2m	shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	8m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	14m	deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	sand and gravel	Top soil	Top soil
Soil Colour:	brown/grey		
Relative Moisture Level:	damp	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Flat

*Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
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BC Highways

Site Field Inspection Report

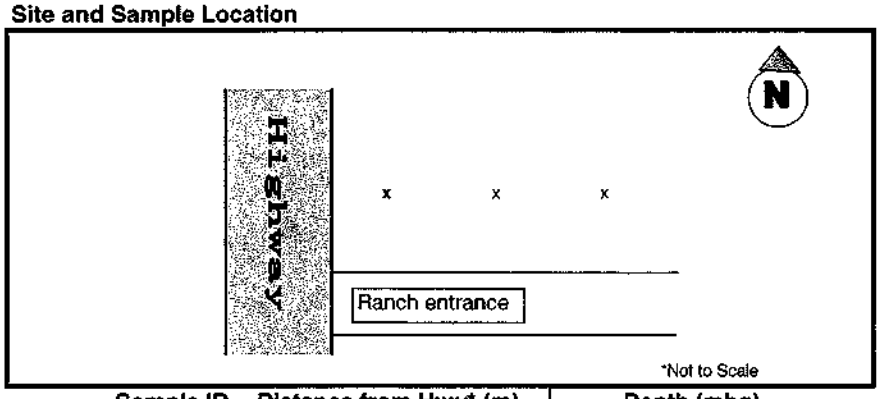
Date: 21-Jul-04
Time: 17:40
Weather/Temp: Sunny, 22°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 14
Highway: 97
Location: 20km South of Williams Lake
Benchmark*: 7m North of Jones Lake Ranch - 3181 -3183 Highway 97
Number of Highway Lanes: Direction: North # of Lanes: 1 (Sampled East bound shoulder)
Direction: South # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0573885	2 - 10U0573892	3 - 10U0573891
UTM 5770879	UTM 5770881	UTM 5770880

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	2.5m	mid	Shallow - 0.0 - 0.2 mbg
Sa 2	5m	shallow	Mid - 0.2 - 0.4 mbg
Sa 3	10m	deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	sand and gravel	topsoil	topsoil
		roots	roots
Soil Colour:	brown	brown	brown
Relative Moisture Level:	damp	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
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BC Highways

Site Field Inspection Report

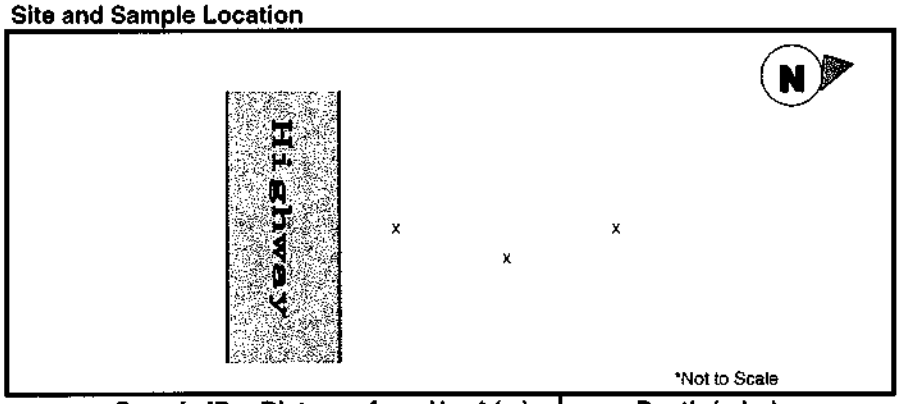
Date: 22-Jul-04
Time: 10:50
Weather/Temp: Sunny, 25°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 15
Highway: 20
Location: 20km West of Williams Lake
Benchmark*: 20m from Pablo Creek Road
Number of Highway Lanes: Direction: West # of Lanes: 1 (Sampled East bound shoulder)
Direction: East # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0550848	2 - 10U0550847	3 - 10U0550847
UTM 5762480	UTM 5762482	UTM 5762483

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1.5m	mid	Shallow - 0.0 - 0.2 mbg
Sa 2	2.5m	deep	Mid - 0.2 - 0.4 mbg
Sa 3	3.5m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	sand and gravel	sand and gravel	sand and gravel
		topsoil	
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Slight Westward slope

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
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BC Highways

Site Field Inspection Report

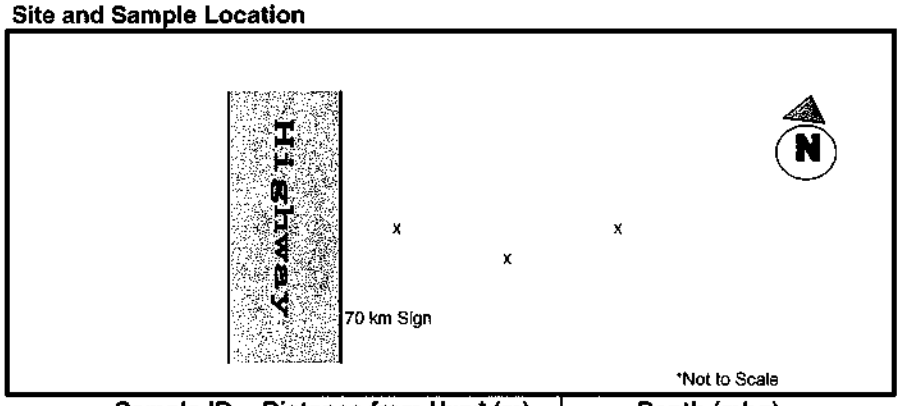
Date: 22-Jul-04
Time: 12:15
Weather/Temp: Sunny, 25°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 16
Highway: 97
Location: 50km South of Quesnel
Benchmark*: 100m North of 70km sign
Number of Highway Lanes: Direction: North # of Lanes: 1 (Sampled East bound shoulder)
Direction: South # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0536015	2 - 10U0536016	3 - 10U0536019
UTM 5826858	UTM 5826853	UTM 5826857

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1m	shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	3.5m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	4.5m	deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	Sand and gravel	Sand and gravel	Sand and gravel
		topsoil	topsoil
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope: Flat

Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
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BC Highways

Site Field Inspection Report

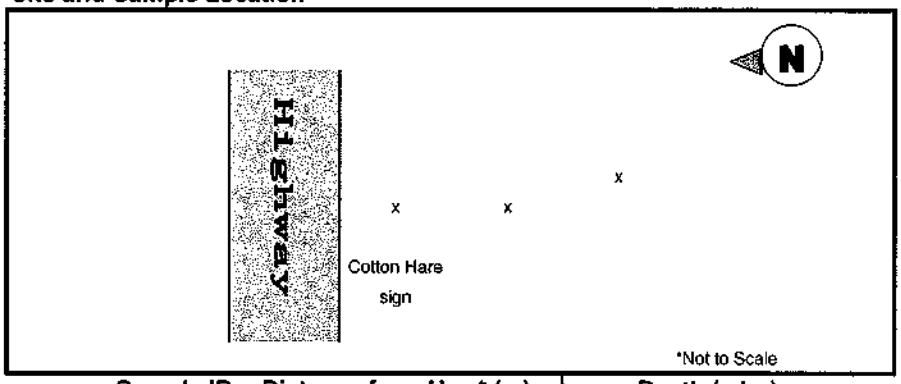
Date: 22-Jul-04
Time: 13:20
Weather/Temp: Sunny, 25°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 17
Highway: 26 East
Location: East of Quesnel
Benchmark*: 20 m from Cotton Hare sign
Number of Highway Lanes: Direction: West # of Lanes: 1 (Sampled East bound shoulder)
Direction: East # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0539199	2 - 10U0539196	3 - 10U0539190
UTM 5375796	UTM 5375778	UTM 5875778

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1m	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	4m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	5m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	top soil		
Soil Colour:	brown		
Relative Moisture Level:	dry		

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Slopes about 20° East

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

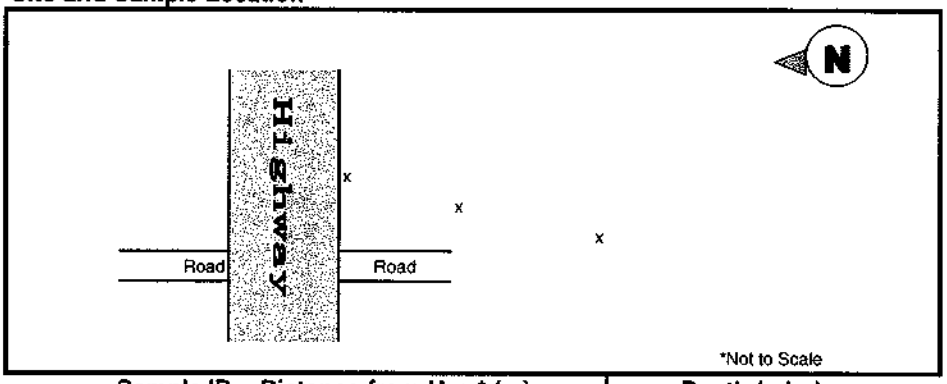
Date: 23-Jul-04
Time: 16:30
Weather/Temp: Sunny, 27°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 18
Highway: 16 East
Location: 30km East of Prince George, Willow River Interpretative Trail Road
Benchmark*:
Number of Highway Lanes: Direction: West # of Lanes: 1 (Sampled East bound shoulder)
Direction: East # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0546882	2 - 10U0546881	3 - 10U0546881
UTM 5971164	UTM 5971161	UTM 5971158

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	0.5m	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	3m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	5m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	topsoil, sand and gravel	topsoil, sand and gravel, cobbles	topsoil, sand and gravel, cobbles
Soil Colour:	brown	brown	brown
Relative Moisture Level:	damp	damp	damp

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope: Slopes E 20°

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
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BC Highways

Site Field Inspection Report

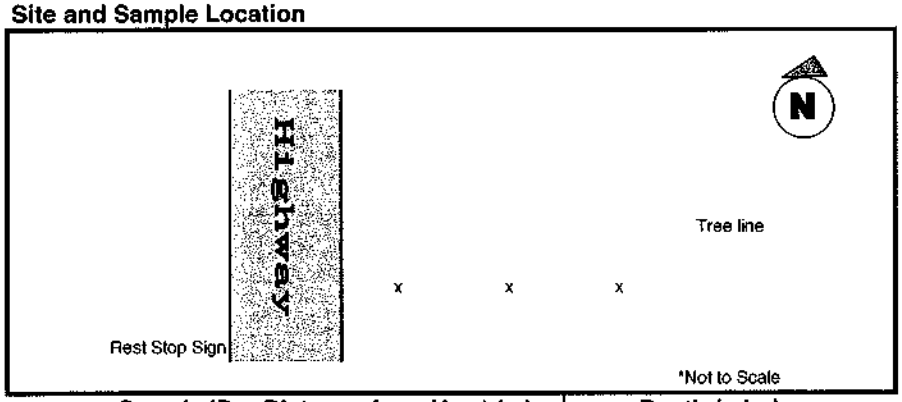
Date: 25-Jul-04
Time: 16:25
Weather/Temp: sunny, 30°C
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 19
Highway: 1 West
Location: 20km East of Salmon Arm
Benchmark*: Across from the Rest Area sign "400m Next one 32km"
Number of Highway Lanes: Direction: West # of Lanes: 2 (Sampled East bound shoulder)
Direction: East # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 11U0355589	2 - 11U055596	3 - 11U055593
UTM 5630751	UTM 5630743	UTM 5630743

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1 m	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	2 m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	3 m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	sand and gravel	sand and gravel, some topsoil	
Soil Colour:	brown	brown	
Relative Moisture Level:	dry	dry	

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): **Y** | **N**
Predominant Ground Slope: flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
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BC Highways

Site Field Inspection Report

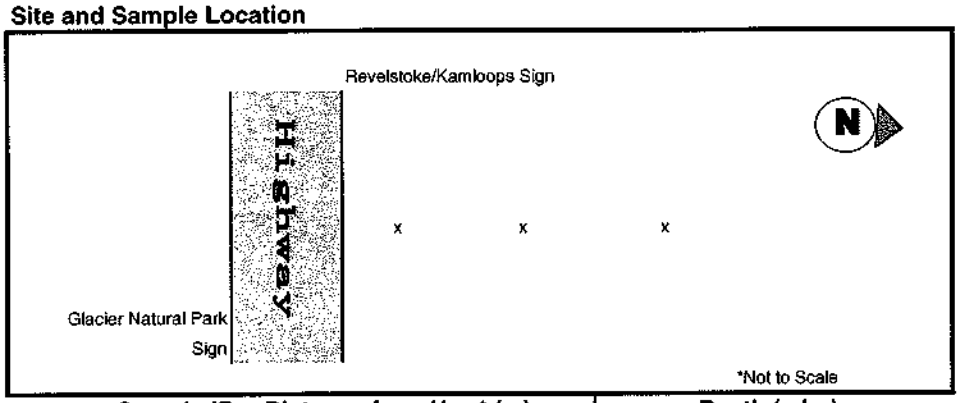
Date: 25-Jul-04
Time: 15:00
Weather/Temp: sunny, warm
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 20
Highway: 1
Location: 50km East of Revelstoke
Benchmark*: Flag 2 W Sign, Management Unit 4.38; Sign for Natural Glacier Access Road
Number of Highway Lanes: Direction: West # of Lanes: 1 (Sampled East bound shoulder)
Direction: East # of Lanes: 2

Distance of Nearest Water Body:

GPS (UTM Coordinates):	1 - 11U450077	2 - 11U0450085	3 - 11U450079
	UTM 5673409	UTM 5673419	UTM 5673419

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	2m	shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	3m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	4m	deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	sand and gravel	sand and gravel with some topsoil	sand and gravel with some topsoil
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	damp	damp

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

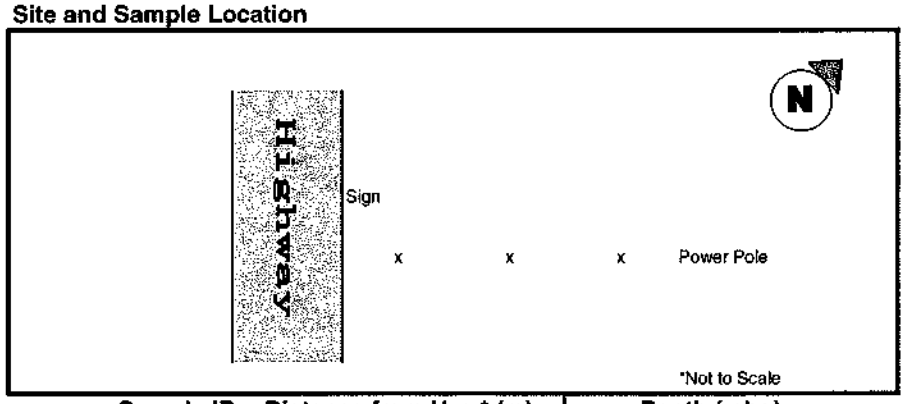
Date: 25-Jul-04
Time: 13:30
Weather/Temp: Sunny, warm
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: site 21
Highway: 95 North
Location: 50km from Radium
Benchmark*: Beside sign "Harrogate Unicorperated"
Number of Highway Lanes: Direction: North # of Lanes: 1 (Sampled East bound shoulder)
Direction: South # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 11U0538856	2 - 11U0538855	3 - 11U0538859
UTM 5647361	UTM 5647364	UTM 5647366

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1.5m	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	2.5m	mid	Mid - 0.2 - 0.4 mbg
Sa 3	3.5m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	Sample 1	Sample 2	Sample 3
Soil Stratigraphy:	topsoil, sand and gravel	topsoil, sand and gravel	topsoil, sand and gravel
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y | N
Predominant Ground Slope: Flat

*Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 26 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

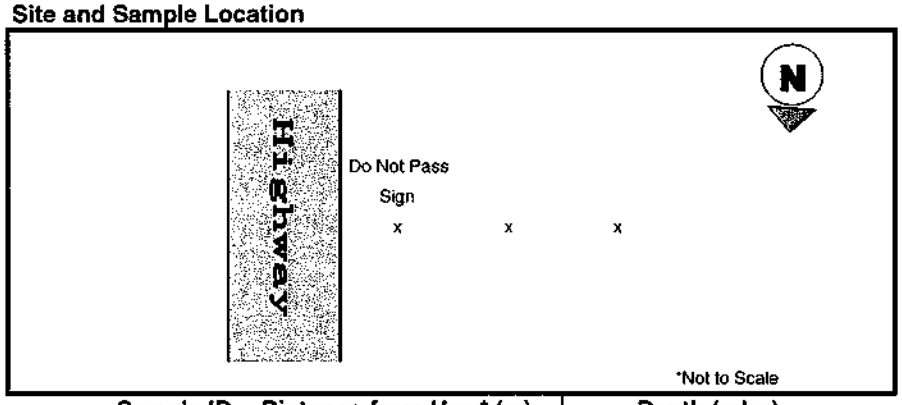
Date: 26-Jul-04
Time: 16:00
Weather/Temp: Sunny, hot
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 22
Highway: 97 A
Location: 2km South of Armstrong
Benchmark*: Beside "Do Not Pass When Lights Flashing" sign
Number of Highway Lanes: Direction: North # of Lanes: 2 (Sampled East bound shoulder)
Direction: South # of Lanes: 2

Distance of Nearest Water Body:

GPS (UTM Coordinates):	1 - 11U0342893	2 - 11U0342891	3 - 11U0342893
	UTM 5585869	UTM5585870	UTM5585870

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	2	shallow	Mid - 0.2 - 0.4 mbg
Sa 3	3	dry	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	sand and gravel	topsoil	topsoil, gravel and sand
Soil Colour:	brown	brown	brown
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): **Y** | **N**
Predominant Ground Slope: flat

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

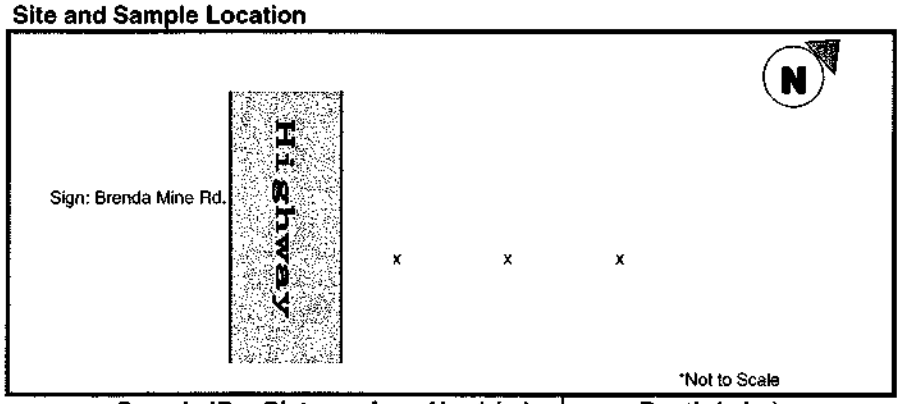
Date: 27-Jul-04
Time: 12:00
Weather/Temp: Sunny, warm
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 23
Highway: 97 C
Location: 25km West of Kelowna
Benchmark*: sign across the highway
Number of Highway Lanes: Direction: West # of Lanes: 2 (Sampled East bound shoulder)
Direction: East # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 11U0289254	2 - 11U0289254	3 - 11U0289257
UTM 5530584	UTM 5530587	UTM 5530587

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	0.5	shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	2	deep	Mid - 0.2 - 0.4 mbg
Sa 3	4.5	mid	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Samd amd gravel, rocks	Samd amd gravel, rocks	Samd amd gravel, rocks
Soil Colour:	grey	grey	grey
Relative Moisture Level:	dry	dry	dry

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: up about 10°

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

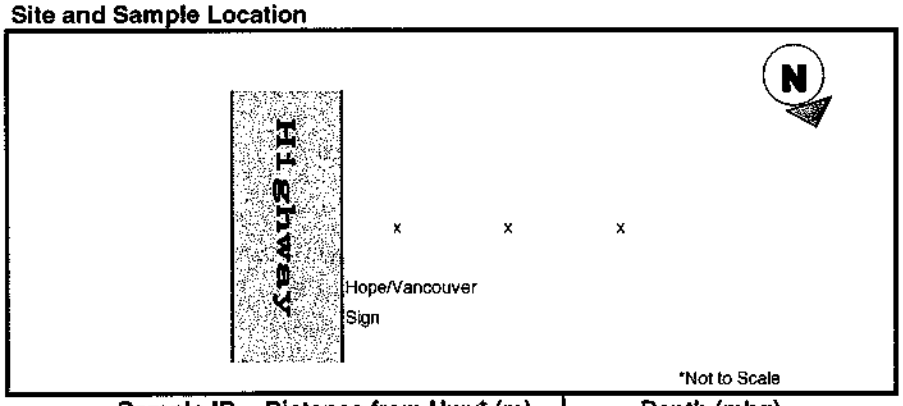
Date: 27-Jul-04
Time: 13:50
Weather/Temp: Sunny, hot
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 24
Highway: 5 South
Location: 9km from Mont
Benchmark*: Hope Vancouver sign
Number of Highway Lanes: Direction: North # of Lanes: 2 (Sampled East bound shoulder)
Direction: South # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0656170	2 - 10U0656170	3 - 10U0656170
UTM 5543785	UTM 5543777	UTM 5543776

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	0.5	deep	Shallow - 0.0 - 0.2 mbg
Sa 2	1.5	mid	Mid - 0.2 - 0.4 mbg
Sa 3	2.5	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Sand and Gravel	Sand and Gravel	
Soil Colour:	Brown	Brown	
Relative Moisture Level:	Dry	Dry	

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: to the south

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

Site Field Inspection Report

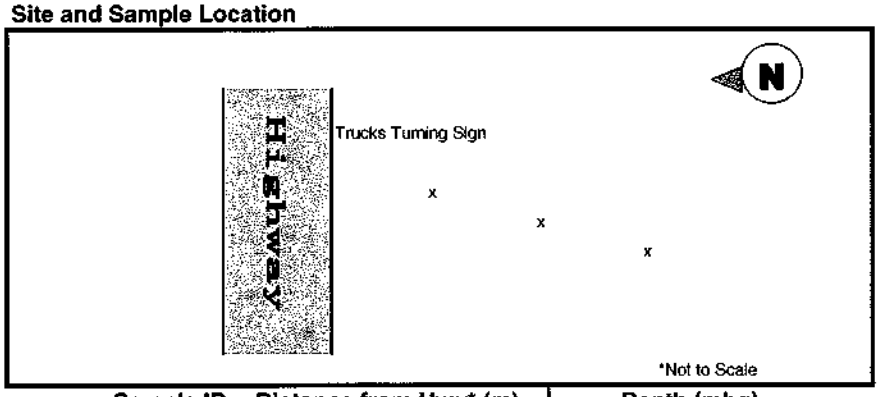
Date: 23-Jul-04
Time: 17:10
Weather/Temp: Sunny, very hot
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 25
Highway: 16 East
Location: 63 East of Prince George
Benchmark*: 3.5m West from "Trucks Turning" sign
Number of Highway Lanes: Direction: East # of Lanes: 1 (Sampled East bound shoulder)
Direction: West # of Lanes: 2

Distance of Nearest Water Body:
GPS (UTM Coordinates):

1 - 10U0578899	2 - 10U0578901	3 - 10U0578902
UTM 5974701	UTM 5974709	UTM 5974708

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	0.5m	mid	Shallow - 0.0 - 0.2 mbg
Sa 2	2m	deep	Mid - 0.2 - 0.4 mbg
Sa 3	4m	shallow	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Sand and gravel, topsoil	Sand and gravel, topsoil	Sand and gravel, topsoil
Soil Colour:	Brown	Brown	Brown
Relative Moisture Level:	Damp	Damp	Moist

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing):	Y	N

Predominant Ground Slope: Slopes East 20°

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

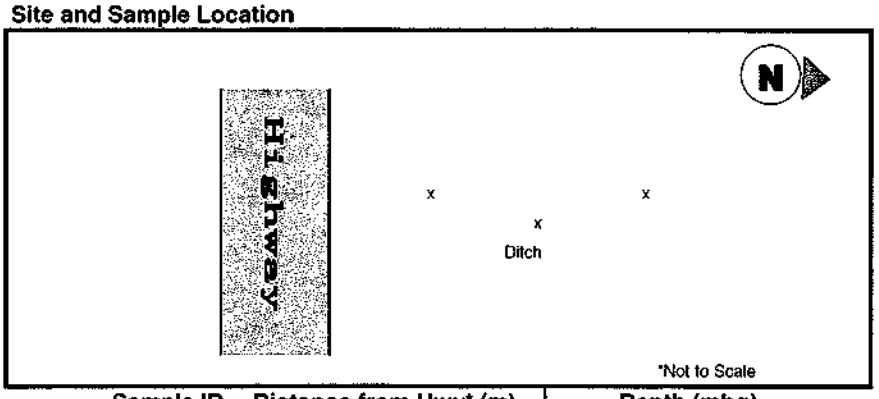
Site Field Inspection Report

Date: 19-Apr-04
Time: 13:00
Weather/Temp: Sunny, Warm
Field Personnel: Liliana Jerade, Asifa Samji

Site Identification: Site 26
Highway: Hwy 24
Location: 30 km West of Little Fort
Benchmark*:
Number of Highway Lanes: Direction: East # of Lanes: 1 (Sampled East bound shoulder)
Direction: West # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates): 10U0679345
UTM 5707953

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	1	mid	Shallow - 0.0 - 0.2 mbg
Sa 2	2	shallow	Mid - 0.2 - 0.4 mbg
Sa 3	3	deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Sand and gravel, topsoil	Sand and gravel, topsoil	Sand and gravel, topsoil
Soil Colour:	Brown	Brown	Brown
Relative Moisture Level:	Damp	Damp	Moist

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y | N
Predominant Ground Slope: Flat

Notes
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

MINISTRY OF TRANSPORTATION and HIGHWAYS
Baseline Study - Salt Management Plan
Phase 1 - 27 Sites and Conductivity Survey
BC Highways

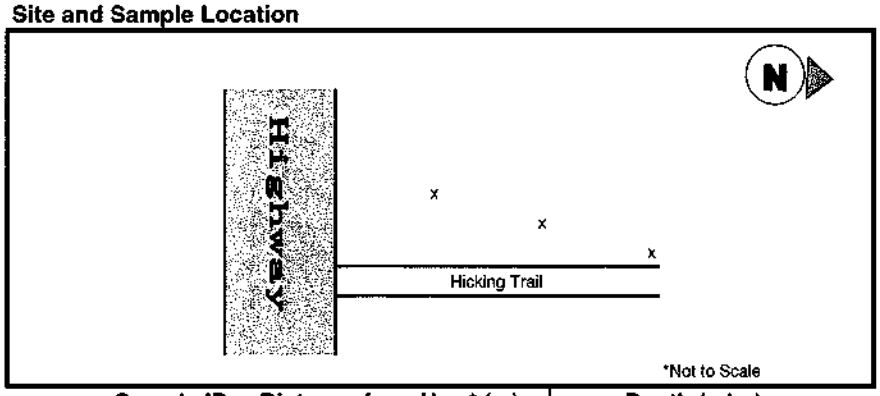
Site Field Inspection Report

Date: 18-Feb-04
Time: 12:30
Weather/Temp: Sunny, Cold
Field Personnel: Liliana Jerade, Tyler Joyce

Site Identification: Site 27
Highway: 16 East
Location: 25 Km south of McBride
Benchmark*: Besides hicking road
Number of Highway Lanes: Direction: East # of Lanes: 1 (Sampled East bound shoulder)
Direction: West # of Lanes: 1

Distance of Nearest Water Body:
GPS (UTM Coordinates):

Site and Sample Location



Sample ID	Distance from Hwy* (m)	Depth (mbg)	
Sa 1	2	shallow	Shallow - 0.0 - 0.2 mbg
Sa 2	3	mid	Mid - 0.2 - 0.4 mbg
Sa 3	4	deep	Deep - 0.4 - 0.6 mbg

Soil Conditions	**Sample 1**	**Sample 2**	**Sample 3**
Soil Stratigraphy:	Sand and gravel, topsoil	Sand and gravel, topsoil	Sand and gravel, topsoil
Soil Colour:	Brown	Brown	Brown
Relative Moisture Level:	Damp	Damp	Moist

Field Observations

Stressed Vegetation? (If yes, indicate location on drawing): Y N
Predominant Ground Slope: Slopes 10° to the E

***Notes**
- Benchmark from nearest reproducible structure ie. lampost, signage, etc.
- mbg - metres below grade
- Distance from Hwy. measured from edge of pavement shoulder

APPENDIX E
Analytical Tables

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Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 1 - HOPE												
		SA1				SA2					SA3			Background
Parameter / Sample Date		27-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	27-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	27-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	27-Jul-04
General														
pH (Standard Units)	ns	8.9	8.5	8.8	8.1	7.9	8.3	8.1	8.17	8.0	7.5	7.3	7.0	6.9
Anions														
Chloride	2500[b]	< 50	< 50	< 50	<50	< 50	< 50	< 50	<50	< 50	< 50	< 50	<50	< 50
Inorganic Substances														
Aluminum	ns	8610	10200	9160	8160	9500	8240	9690	9030	9160	9170	9140	6760	15700
Antimony	40	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8
Arsenic	20[d]	2.6	5.8	4.5	3.3	2.7	3.5	3.1	3.1	2.1	3.3	3.8	4.1	18.3
Barium	2,000	44	57.6	61.6	45.6	42.8	50.7	46.1	40.8	40.2	46.2	56.8	36.9	77.5
Beryllium	8	< 0.1	0.2	0.1	0.1	< 0.1	0.1	0.1	0.2	< 0.1	0.2	0.2	0.1	0.2
Bismuth	ns	< 0.1	0.1	0.1	<0.1	< 0.1	0.1	0.7	<0.1	< 0.1	< 0.1	0.1	0.2	0.1
Cadmium	100[c] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.14	0.17	0.15	0.19	0.14	0.13	0.15	0.15	0.13	0.12	0.13	0.14	0.82
Calcium	ns	2500	1600	2050	2390	2550	1550	2180	2350	2500	1930	2140	2440	6760
Total Chromium	60[c]	23	16	17.7	21.3	22	15	26	30.1	21	22	17.7	29	13
Cobalt	300	7.1	7.8	6.3	6.3	6.4	5.8	6.7	7.2	5.8	6.7	6.3	7.7	15.8
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	26.7	24.6	22.6	24.4	23.2	21.9	27.1	27.3	24.6	27.5	21.5	29.4	49.6
Iron	ns	17900	19200	18300	19500	17500	15500	19700	19800	18500	17900	17400	20500	35900
Lead	ns/1,000[c] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	9.3	7.6	10.3	8.8	10	11.3	15.9	11	13.7	15.5	9.0	13.5	7.6
Magnesium	ns	6140	7150	5580	5610	6600	5240	6630	6640	6210	6120	6370	6890	5960
Manganese	ns	283	356	328	280	285	297	308	311	257	295	322	314	1190
Mercury	40[c]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05
Molybdenum	40	0.7	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.5	0.5	1.1
Nickel	500	37.9	21.2	17.0	20.3	23.0	14.6	23.4	24.9	20.5	22.6	23.3	27.1	22.2
Phosphorus	ns	432	460	413	376	417	401	439	434	434	496	429	435	723
Potassium	ns	593	1100	1100	555	693	1020	655	674	563	775	1060	930	814
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	1.2
Silver	40	< 0.05	0.08	0.09	0.05	< 0.05	0.05	0.13	0.08	< 0.05	0.11	<0.05	0.06	0.19
Sodium	1200	311	479	490	302	279	408	456	396	325	372	391	414	192
Strontium	100,000	11.6	7.9	9.6	12	10.5	8.5	11.8	11.7	9.8	10.2	10.5	12.2	37
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1
Thallium	ns	< 0.05	0.14	0.13	0.08	< 0.05	0.13	0.07	0.08	< 0.05	0.14	0.13	0.06	0.2
Tin	300	0.4	0.6	0.5	0.3	0.3	0.4	0.6	0.3	0.2	0.4	0.4	0.3	0.3
Titanium	ns	490	455	554	485	504	469	447	532	476	416	528	482	360
Vanadium	ns	33	34	32.4	32	32	28	35.9	35.6	30	31	31	35.6	44
Zinc	600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	60	60	56.6	52.4	51	55	60.7	60.1	54	57	52.9	63.7	133
Zirconium	ns	< 0.5	1.1	6.3	1.5	< 0.5	1.2	6.5	1.7	< 0.5	1.4	5.2	1.9	0.5

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[f] Standards (CL) for Freshwater	SITE 2 - MANNING PARK											
		SA1				SA2				SA3			
Parameter / Sample Date		14-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	14-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	14-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05
General													
pH (Standard Units)	ns	7.6	7.7	6.8	7.47	7.5	6.7	7.0	7.53	7.0	7.4	6.5	7.06
Anions													
Chloride	2500[f]	< 50	< 50	705	<50	< 50	< 50	316	<50	< 50	< 50	375	<50
Inorganic Substances													
Aluminum	ns	13800	15200	16400	13900	16200	16700	14400	14800	20100	22900	15400	14400
Antimony	40	0.4	0.3	0.5	0.5	0.5	0.6	0.4	0.5	0.5	0.6	0.4	0.5
Arsenic	20[d]	5.0	4.0	6.5	5.4	7.1	7.8	5.3	5.9	6.8	10.4	6.1	6.0
Barium	2,000	36.4	48	41.5	46.4	45.1	35.3	45	54.2	31.1	39.3	48.2	46.8
Beryllium	8	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[d]												
	2[d] @pH <7.0			0.18			0.54					0.16	
	2.5[d] @pH 7.0-<7.5				0.2			0.2		0.46	0.75		0.21
	25[d] @pH 7.5-<8.0	0.22	0.18			0.16			0.19				
	150[d] @pH ≥ 8.0												
Calcium	ns	5770	3610	4410	4540	4210	3320	3660	4730	2950	2820	4330	4040
Total Chromium	60[c]	26	36	38.5	29.5	31	29	47.1	25.9	26	29	30.4	29.7
Cobalt	300	8.8	9.5	10.7	9.9	9.6	11.0	9.4	9.9	9.5	12.0	9.2	9.4
Copper	250[b]												
	90[d] @pH <5.0												
	100[d] @pH 5.0-<5.5												
	200[d] @pH 5.5-<6.0												
	1,500[d] @pH 6.0-<6.5											44.6	
	30,000[d] @pH ≥ 6.5	39.1	38.5	60.6	41.7	35.4	43.6	51.4	36.3	35.5	45.9		46.5
Iron	ns	27300	27600	31200	27800	30200	37700	27900	30100	37400	43700	28500	30800
Lead	ns/1,000[a]												
	150[d] @pH <5.5												
	250[d] @pH 5.5-<6.0												
	2,000[d] @pH 6.0-<6.5											37.2	
	40,000[d] @pH ≥ 6.5	27.2	62.6	122	42.3	24.3	26.1	137	22.3	15.3	19.7		34.8
Magnesium	ns	8640	9080	9050	7760	9670	10400	8330	8210	9880	11300	8780	7900
Manganese	ns	571	457	558	470	542	705	478	505	771	882	504	524
Mercury	40[c]	< 0.05	0.07	<0.05	<0.05	< 0.05	0.09	<0.05	<0.05	< 0.05	0.08	0.05	<0.05
Molybdenum	40	1.0	0.6	0.9	0.7	0.6	0.8	0.6	0.4	0.7	1.0	0.5	0.8
Nickel	500	21.6	22.6	20.3	21.6	21.2	18.9	22.3	21.1	17.4	19.5	20.7	21.0
Phosphorus	ns	510	616	549	486	606	598	553	542	759	823	564	604
Potassium	ns	593	589	707	758	649	420	697	784	452	461	733	765
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.08	0.06	0.08	0.09	0.08	0.13	0.08	0.1	0.12	0.12	0.08	0.08
Sodium	1200	771	724	1720	785	705	410	1170	943	307	332	1150	609
Strontium	100,000	24.3	22.1	28.9	26.4	29.1	14.1	21.3	32.1	13.5	11.2	26.1	21.7
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.07	0.07	0.06	< 0.05	0.08	0.06	0.06	< 0.05	0.08	0.07	0.06
Tin	300	0.4	0.3	0.4	0.4	0.3	0.3	0.5	0.3	0.3	0.3	0.4	0.4
Titanium	ns	396	390	612	778	465	433	541	895	475	485	606	726
Vanadium	ns	43	50	58.5	50.7	53	67	50.2	54.6	60	75	53.9	52.3
Zinc	600[b]												
	150[d] @pH <6.0												
	300[d] @pH 6.0-<6.5												
	1,500[d] @pH 6.5-<7.0			96.7								76.1	
	3,000[d] @pH ≥ 7.0	90	84		89.6	74	121	83.1	79.5	113	155		86.2
Zirconium	ns	0.7	2.3	17.6	3.9	1.1	6.6	13.4	4.3	2.9	8.8	15.3	4.9

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

f - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 3 - PENTICTON												
		SA1				SA2				SA3				DUP
Parameter / Sample Date		15-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	15-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	15-Jul-04	15-Nov-04	15-Feb-05	17-Apr-05	17-Apr-05
General														
pH (Standard Units)	ns	9.8	9.9	9.6	7.5	9.7	9.9	8.0	8.8	9.0	9.6	8.8	7.7	7.6
Anions														
Chloride	2500[f]	< 50	< 50	79	<50	< 50	< 50	< 50	<50	< 50	< 50	< 50	<50	<50
Inorganic Substances														
Aluminum	ns	5610	8500	6400	4770	6890	9080	7630	4880	4890	5430	6880	4580	4500
Antimony	40	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	< 0.1	0.1	0.2	0.2
Arsenic	20[d]	1.4	1.7	1.4	1.5	2.3	1.7	1.3	1.9	1.3	1.2	1.1	1.3	1.4
Barium	2,000	45.6	84	60.8	51.4	51.8	67.7	58.2	49.6	33.7	48.4	62.5	50.9	43.7
Beryllium	8	0.3	0.4	0.3	0.2	0.3	0.4	0.4	0.2	0.2	0.2	0.3	0.2	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1
Cadmium	100[d] 2[e] @pH <7.0 2.5[e] @pH 7.0-<7.5 25[c] @pH 7.5-<8.0 150[e] @pH ≥8.0	0.09	0.08	0.11	0.1	0.06	0.19	0.09	0.10	0.08	0.10	0.09	0.1	0.1
Calcium	ns	5050	5660	4940	4380	5310	5520	6400	4400	3920	4350	4310	4800	4010
Total Chromium	60[c]	13	13	16.1	21.3	12	19	11.6	16.4	60	9	11.5	17	14.8
Cobalt	300	4.4	5.9	4.7	4.7	4.6	5.9	4.8	4.7	4.4	4.2	4.8	4.8	4.1
Copper	250[b] 90[e] @pH <5.0 100[e] @pH 5.0-<5.5 200[e] @pH 5.5-<6.0 1,500[e] @pH 6.0-<6.5 30,000[a] @pH ≥ 6.5	15	18.1	14.9	15.2	16.1	20.8	15.4	15.7	11.3	13	15.4	14.4	16
Iron	ns	12300	15900	14300	15800	13900	17200	14100	15700	11000	11800	13800	14600	13200
Lead	ns/1,000[a] 150[e] @pH <5.5 250[e] @pH 5.5-<6.0 2,000[e] @pH 6.0-<6.5 40,000[a] @pH ≥ 6.5	40	24	46.3	68.3	21.2	57.6	25.5	102	153	26.2	60.7	59.9	48.3
Magnesium	ns	3280	5270	4080	3480	3970	4950	4260	3450	3310	3600	4110	3360	3050
Manganese	ns	339	333	286	256	263	349	305	264	219	283	288	254	251
Mercury	40[e]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05
Molybdenum	40	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.3	0.5	0.4	0.8	0.4
Nickel	500	6.9	9.0	8.0	8.3	7.9	10.4	8.0	7.3	6.8	6.0	7.7	7.5	6.8
Phosphorus	ns	634	855	746	614	737	848	779	700	607	577	671	759	537
Potassium	ns	970	1320	1120	969	975	1260	1110	1000	750	907	1120	975	917
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	0.5	0.6
Silver	40	0.06	0.08	0.07	0.08	0.06	0.08	0.06	0.07	0.06	0.07	0.07	0.1	0.05
Sodium	1200	531	754	594	237	571	552	461	337	451	265	515	221	215
Strontium	100,000	69.2	105	67.5	70.8	68.5	91.8	131	51.5	45.2	43.1	64.8	68.6	60.3
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	---
Thallium	ns	< 0.05	0.1	0.08	<0.05	0.05	0.1	0.06	0.05	< 0.05	0.35	0.07	0.11	<0.05
Tin	300	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.1	0.3	0.4	0.2
Titanium	ns	310	382	372	459	282	455	408	429	268	301	407	410	357
Vanadium	ns	24	36	31.7	31.7	28	37	33	31.3	21	25	30.5	29	25.1
Zinc	600[b] 150[e] @pH <6.0 300[e] @pH 6.0-<6.5 1,500[e] @pH 6.5-<7.0 3,000[e] @pH ≥ 7.0	45	45	43.9	50.9	43	55	44.9	52.8	41	45	46.8	47.9	42.5
Zirconium	ns	1.4	5.2	16.2	4.6	1.5	5.9	18.4	4.1	0.9	2.7	17.4	3.7	2.9

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 4 - GREENWOOD												
		SA1					SA2				SA3			
		15-Jul-04	DUP 15-Jul-04	16-Nov-04	15-Feb-05	17-Apr-05	15-Jul-04	16-Nov-04	15-Feb-05	17-Apr-05	15-Jul-04	16-Nov-04	15-Feb-05	17-Apr-05
General														
pH (Standard Units)	ns	9.1	9.1	8.1	8.8	8.68	9.0	8.0	9.2	9.3	8.4	8.8	8.6	8.6
Anions														
Chloride	2500[f]	< 50	< 50	< 50	96	<50	< 50	< 50	< 50	<50	< 50	< 50	< 50	<50
Inorganic Substances														
Aluminum	ns	5830	6820	6480	7570	7620	9400	7120	6570	6110	8660	7340	6180	6170
Antimony	40	< 0.1	0.2	< 0.1	0.2	0.4	0.3	0.2	0.5	0.5	1.1	0.1	<0.1	0.2
Arsenic	20[d]	2.9	4.0	3.5	6.7	11.5	12.8	7.5	4.8	6.6	15.9	3.5	3.1	4.8
Barium	2,000	67.9	44.9	64.7	63.8	75.3	80.5	59.4	57.1	66.6	81.4	58.3	43.7	50.5
Beryllium	8	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Bismuth	ns	< 0.1	< 0.1	< 0.1	0.1	0.2	0.2	< 0.1	0.1	<0.1	0.3	< 0.1	<0.1	<0.1
Cadmium	100[a] 2[b] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.11	0.16	0.09	0.16	0.34	0.51	0.28	0.36	0.37	0.50	0.13	0.09	0.20
Calcium	ns	3930	3050	2130	3080	5080	3820	2650	4170	3470	3750	2660	2170	3060
Total Chromium	60[c]	13	18	17	21.7	37.5	32	24	38	48.7	28	19	11.8	27.3
Cobalt	300	5.1	6.8	5.8	8.5	8.5	8.5	7.3	7.2	7.9	6.7	6.7	5.0	7.0
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	19.9	26.8	20.9	27.2	53.9	66.1	36.4	42.5	36	66.5	23.9	15.9	28.7
Iron	ns	13200	17100	14600	16000	18800	19200	19100	18000	19800	15900	17900	14000	19400
Lead	ns/1,000[a] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	12.8	17.6	11	29.4	39.3	41.7	48.8	124	90	66.2	16.1	8.9	31.1
Magnesium	ns	4480	5110	4820	5460	5740	6400	5460	6080	5420	5280	5340	4290	5220
Manganese	ns	261	310	278	287	363	549	384	296	297	350	314	244	275
Mercury	40[a]	< 0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.3	0.4	0.3	0.4	0.8	1.1	1.0	1.2	0.6	0.8	0.3	0.3	0.4
Nickel	500	14.5	16.5	15.8	25.6	31.6	32.3	22.3	28.7	28.6	23.5	17.3	11.4	21.0
Phosphorus	ns	593	771	694	648	681	692	815	628	608	772	764	493	562
Potassium	ns	717	1090	988	1290	918	961	1050	930	912	890	1070	1000	1040
Selenium	10	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	< 0.05	0.08	0.06	0.1	0.18	0.21	0.12	1.46	0.13	0.73	0.07	<0.05	0.11
Sodium	1200	359	470	515	553	550	515	319	355	329	566	357	262	283
Strontium	100,000	27	19.5	15	24.4	26.4	22.1	16.5	23	24.1	25	18.5	14	19.9
Tellurium	ns	< 0.1	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.05	0.11	0.07	0.07	0.08	0.11	0.06	0.05	0.06	0.08	0.05	0.07
Tin	300	0.2	0.3	0.1	0.3	0.3	0.3	0.2	0.4	0.4	0.8	0.2	0.2	0.4
Titanium	ns	176	301	243	349	371	282	240	294	359	313	273	287	361
Vanadium	ns	22	31	26	32	33.6	36	37	33.8	34.6	27	36	26.3	35.6
Zinc	600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	49	62	38	46.5	60.5	73	64	80.6	75.6	96	47	32.3	57.8
Zirconium	ns	0.8	0.7	1.9	9.9	1.2	0.6	1.8	8.2	2.2	0.9	2.2	8.3	2

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 5 - ROSSLAND											
		SA1				SA2				SA3			
Parameter / Sample Date		15-Jul-04	16-Nov-04	15-Feb-05	17-Apr-05	15-Jul-04	16-Nov-04	15-Feb-05	17-Apr-05	15-Jul-04	16-Nov-04	15-Feb-05	17-Apr-05
General													
pH (Standard Units)	ns	8.6	7.4	8.9	8.1	7.7	7.6	8.3	7.5	7.7	7.6	8.0	7.1
Anions													
Chloride	2500[d]	< 50	62	545	<50	< 50	< 50	434	<50	< 50	81	372	<50
Inorganic Substances													
Aluminum	ns	10200	11900	11700	10600	6300	7200	9310	9910	6050	9450	12400	8170
Antimony	40	0.3	0.2	0.4	0.7	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.4
Arsenic	20[d]	3.6	5.1	3.9	5.0	3.5	3.2	4.3	4.5	2.1	3.5	3.7	3.1
Barium	2,000	107	141	130	122	74.5	100	104	133	58.7	132	104	91.1
Beryllium	8	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3
Bismuth	ns	0.8	0.3	0.7	0.5	0.2	0.2	0.3	0.4	0.1	0.2	0.6	0.2
Cadmium	100[a] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥ 8.0	0.31	0.52	0.36	0.36	0.33	0.27	0.33	0.34	0.3	0.37	0.29	0.37
Calcium	ns	3760	4950	5390	4580	3110	3470	3850	4420	2360	3580	3940	3920
Total Chromium	60[c]	25	31	26	25.6	22	27	21.7	25.7	16	26	21	23.2
Cobalt	300	7.9	11.4	8.0	9.8	6.5	6.2	5.3	8.9	5.0	7.5	8.1	6.9
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	24.4	27	26	27.6	17.6	19.5	18.3	25.1	14.1	22.8	19.6	21
Iron	ns	20600	23700	23000	25300	16500	17000	18100	24300	13400	20000	20900	20400
Lead	ns/1,000[a] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	16.9	17.2	19.5	15.4	31.1	62.6	29.7	18.5	35.1	62.8	17.4	36.1
Magnesium	ns	6010	6870	6050	5310	5030	5100	4990	5580	3890	5600	5170	4910
Manganese	ns	274	337	321	314	259	257	253	299	223	319	322	292
Mercury	40[d]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.7	0.8	0.8	1.0	0.5	0.6	0.6	0.7	0.5	0.9	0.6	0.6
Nickel	500	18.5	23.6	17.1	21.0	14.7	16.4	13.5	18.1	11.6	17.4	14.1	16.8
Phosphorus	ns	1120	1670	1240	1150	958	1250	1030	1100	867	1300	1150	1100
Potassium	ns	2450	2410	2470	2580	1630	1620	2110	2800	1110	1980	2250	1910
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.12	0.1	0.15	0.11	0.09	0.12	0.12	0.17	0.08	0.12	0.15	0.12
Sodium	1200	507	762	1270	528	362	457	1040	554	265	505	1030	370
Strontium	100,000	42.5	55.4	49.6	45.5	31.1	32.5	36.4	44.5	19.7	33.5	33.2	37.6
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	0.13	0.16	0.14	0.15	0.11	0.14	0.12	0.16	0.08	0.16	0.13	0.14
Tin	300	0.3	0.2	0.5	0.4	0.4	0.5	0.3	0.4	0.3	0.4	0.3	0.4
Titanium	ns	573	576	727	714	424	379	466	730	279	476	626	616
Vanadium	ns	41	52	51	50.9	31	35	38.7	51.9	25	43	49.2	40.1
Zinc	600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	63	86	64.8	62.1	73	80	54.6	67.6	65	88	86	81.9
Zirconium	ns	0.7	2.6	13.9	2.2	0.6	1.7	7.6	2	< 0.5	1.9	12.6	2

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 6 - CRESTON SA1 16-Jul-04	SA1 17-Nov-04	SA1 15-Feb-05	SA1 18-Apr-05	SA2 16-Jul-04	SA2 17-Nov-04	SA2 15-Feb-05	SA2 18-Apr-05	SA3 16-Jul-04	SA3 17-Nov-04	SA3 15-Feb-05	SA3 18-Apr-05	DUP 18-Apr-05
General														
pH (Standard Units)	ns	7.6	7.6	7.4	7.0	7.4	8.0	7.1	7.2	7.5	7.4	7.4	7.0	7.3
Anions														
Chloride	2500[f]	< 50	61	119	<50	< 50	< 50	< 50	<50	< 50	< 50	< 50	<50	<50
Inorganic Substances														
Aluminum	ns	8350	10200	8170	7390	8050	13900	8170	7500	8010	7820	8460	8010	7230
Antimony	40	0.4	0.3	0.2	0.3	1.9	0.7	0.5	0.4	0.3	0.5	0.4	0.5	0.5
Arsenic	20[d]	5.4	5.1	3.5	4.8	6.6	9.0	6.5	5.1	5.6	7.5	4.9	6.2	7.3
Barium	2,000	66.1	79.6	56.3	58.9	60.6	72.2	64.7	65.4	59	86.6	69.5	78	75.1
Beryllium	8	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3
Bismuth	ns	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Cadmium	100[e] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.17	0.09	0.1	0.11	0.14	0.17	0.11	0.22	0.16	0.16	0.16	0.17	0.16
Calcium	ns	4340	1560	2070	2050	2900	5680	2190	2790	3430	5690	3210	2910	2740
Total Chromium	60[c]	37	16	22.7	28.1	13	11	12.5	14.7	19	13	19.9	12.9	11.7
Cobalt	300	7.5	8.0	6.6	9.5	7.1	10.1	7.7	7.1	7.9	9.1	6.6	9.0	9.4
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	22.6	23.7	16.5	20.9	24.5	109	22.2	21.6	20	23.6	21.1	25.6	26.8
Iron	ns	20800	25000	18600	22300	20900	22400	20900	20900	20300	22700	19800	23900	24900
Lead	ns/1,000[e] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	120	19.6	56.3	89.4	30.8	31.6	37.8	44.4	49.2	42.4	82.5	44.9	35.7
Magnesium	ns	6710	5640	4770	4700	5420	7740	5250	4440	5800	6970	5830	5230	5410
Manganese	ns	379	255	218	253	307	400	279	300	258	388	280	361	341
Mercury	40[c]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	0.06	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05
Molybdenum	40	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.7	0.3
Nickel	500	11.4	12.1	9.1	11.2	13.0	13.5	11.4	16.7	10.4	12.6	10.9	13.5	13.5
Phosphorus	ns	368	331	247	272	340	849	260	315	333	370	319	316	267
Potassium	ns	3050	3770	2910	3220	2220	1440	2360	2810	2660	1760	2690	2320	2540
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	0.6	< 0.5	< 0.5	<0.5	<0.5	<0.5
Silver	40	0.05	< 0.05	<0.05	<0.05	0.25	0.09	0.05	0.06	0.07	0.1	0.06	0.11	0.07
Sodium	1200	110	249	273	177	< 100	< 100	129	192	110	133	178	110	100
Strontium	100,000	9.1	6.3	5.2	6.5	5.6	6.4	4.9	5.2	6.5	12.6	12.3	6.5	5.8
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	---
Thallium	ns	0.18	0.3	0.21	0.21	0.13	0.11	0.16	0.35	0.36	0.13	0.18	0.17	0.17
Tin	300	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.2	0.4	0.3	0.3
Titanium	ns	399	548	414	479	316	250	372	448	366	289	398	414	412
Vanadium	ns	19	22	16.1	18.9	19	22	19.5	17.9	18	20	19.8	20.4	21.3
Zinc	600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	64	55	45.2	53.6	60	66	46.4	59.3	53	54	56.4	62.7	59.8
Zirconium	ns	< 0.5	1.7	2.6	0.7	< 0.5	1.8	2.9	0.7	< 0.5	1.5	3.3	0.8	1

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 7 - CRANBROOK											
		SA1				SA2				SA3			
Parameter / Sample Date		16-Jul-04	17-Nov-04	15-Feb-05	18-Apr-05	16-Jul-04	17-Nov-04	15-Feb-05	18-Apr-05	16-Jul-04	17-Nov-04	15-Feb-05	18-Apr-05
General													
pH (Standard Units)	ns	8.3	9.1	9.2	9.1	9.7	9.5	8.7	8.4	9.5	9.1	8.3	8.5
Anions													
Chloride	2500[f]	< 50	< 50	265	52	< 50	< 50	< 50	125	< 50	< 50	171	<50
Inorganic Substances													
Aluminum	ns	5310	4360	5710	4400	3900	4830	5890	3710	4480	4700	12700	3700
Antimony	40	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4
Arsenic	20[a]	4.9	4.5	3.5	4.3	3.4	3.5	3.6	4.0	3.4	4.2	4.4	4.8
Barium	2,000	47.1	69.3	52.8	97.5	53.9	46.7	59	102	34.3	76.3	131	145
Beryllium	8	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.4	0.2
Bismuth	ns	< 0.1	< 0.1	0.2	0.1	< 0.1	0.1	0.1	<0.1	< 0.1	< 0.1	0.2	0.1
Cadmium	100[a] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.15	0.13	0.14	0.21	0.16	0.13	0.15	0.17	0.15	0.19	0.09	0.2
Calcium	ns	46900	75700	54200	54300	65100	74900	46200	51700	71900	79400	18100	52400
Total Chromium	60[c]	9	8	11.7	9	6	6	10.1	8	6	8	10.8	6
Cobalt	300	5.7	4.8	4.4	4.3	4.1	4.5	4.7	4.4	4.5	4.8	6.3	4.9
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	13.9	10.4	17.1	12.4	11	11.3	12.3	12	13.6	19.2	14.4	21.1
Iron	ns	14400	12100	12500	16200	12200	13300	13400	13600	13600	15900	16400	14000
Lead	ns/1,000[e] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	18.5	18.9	42.2	33.7	56.9	25.3	30.7	25.7	48.2	60.8	14.7	29.8
Magnesium	ns	15400	24200	16600	16300	22400	25800	14000	14900	23900	23900	6580	15600
Manganese	ns	398	286	253	251	242	267	256	248	328	314	395	282
Mercury	40[b]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.8	1.2	0.4	0.6	0.4	0.8	0.5	0.5	0.7	0.7	0.3	0.5
Nickel	500	10.1	11.2	10.6	9.8	10.0	11.5	10.4	9.9	10.6	11.6	13.3	10.0
Phosphorus	ns	427	494	332	377	355	442	337	310	400	500	410	380
Potassium	ns	828	457	895	585	490	546	777	526	460	495	1530	901
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	0.06	<0.05
Sodium	1200	< 100	107	324	204	138	156	163	199	116	154	535	175
Strontium	100,000	50.5	96.4	75	70.2	75.7	97.3	67.5	72	78.5	96.3	30	73.2
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	0.07	0.12	0.07	0.05	< 0.05	0.06	0.06	<0.05	< 0.05	0.07	0.08	<0.05
Tin	300	0.2	0.1	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.2
Titanium	ns	60	59	109	75.2	45	60	103	62.6	43	63	245	80.2
Vanadium	ns	9	8	10	8	6	8	10	7	7	8	12.5	8
Zinc	800[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	53	36	49.5	45.8	41	40	45.5	45	37	44	42.1	52.2
Zirconium	ns	0.5	2.2	5.4	1.2	0.6	2.1	5.7	1.2	0.6	2.4	27.2	2.2

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

f - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 6 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 6: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 8 - RADIUM											
		SA1				SA2				SA3			
Parameter / Sample Date		23-Jul-04	17-Nov-04	15-Feb-05	18-Apr-05	23-Jul-04	17-Nov-04	15-Feb-05	18-Apr-05	23-Jul-04	17-Nov-04	15-Feb-05	18-Apr-05
General													
pH (Standard Units)	ns	9.9	9.2	9.2	9.1	9.5	10.1	9.2	8.4	6.9	8.6	8.7	8.5
Anions													
Chloride	2500[f]	< 50	< 50	98	51	64	100	121	<50	< 50	< 50	101	<50
Inorganic Substances													
Aluminum	ns	5480	6810	3770	4650	5760	5390	4280	4970	5310	5140	4170	3660
Antimony	40	0.5	1.0	0.2	0.2	0.6	0.8	0.3	0.4	0.5	1.0	0.5	0.5
Arsenic	20[d]	16.1	22.6	2.8	4.0	9.3	16.0	8.1	15.2	19.9	16.7	13.0	19.6
Barium	2,000	68.4	130	92.6	76.5	86.3	78.3	59.6	102	107	87.1	196	50.3
Beryllium	8	< 0.1	0.3	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.3	0.3	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[b] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.08	0.11	0.16	0.24	0.21	0.19	0.2	0.12	0.07	0.11	0.2	0.07
Calcium	ns	134000	145000	194000	165000	158000	180000	165000	109000	161000	184000	155000	109000
Total Chromium	60[c]	14	15	33.5	35.4	30	22	23.7	14.2	11	17	16.9	7
Cobalt	300	5.4	6.2	4.6	5.7	6.2	6.4	5.0	4.5	5.2	5.3	4.6	3.9
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	9.9	12.2	7.3	8.3	9.7	9.8	8.7	8.3	9.1	9.0	9.5	7.1
Iron	ns	13000	15800	11500	12500	12800	13800	12500	12900	12500	12400	12700	12700
Lead	ns/1,000[a] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	48.2	45.3	164	206	125	99.7	116	81.3	19.2	61.2	134	12.6
Magnesium	ns	26700	28300	25300	21800	27800	33000	20000	14900	24600	27400	28500	19600
Manganese	ns	346	374	400	408	343	386	347	317	348	426	359	311
Mercury	40[c]	0.06	0.14	<0.05	<0.05	0.06	0.09	<0.05	<0.05	0.07	0.15	0.06	<0.05
Molybdenum	40	0.4	0.5	0.4	0.3	0.4	0.4	0.5	0.3	0.3	0.4	0.4	0.2
Nickel	500	15.5	14.1	8.5	10.0	16.4	11.8	9.0	9.8	16.8	16.3	14.7	9.4
Phosphorus	ns	385	506	365	398	440	479	346	369	515	533	356	280
Potassium	ns	531	567	390	437	575	458	376	398	557	418	417	393
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.06	0.06	0.14	0.83	0.41	0.2	0.17	0.15	< 0.05	0.05	0.21	<0.05
Sodium	1200	267	249	322	316	339	552	311	862	< 100	152	238	<100
Strontium	100,000	212	245	510	433	325	426	390	243	243	375	340	175
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	0.05	<0.05
Tin	300	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	<0.1
Titanium	ns	35	31	36.4	63.5	41	32	35.9	43.4	34	26	36	29.3
Vanadium	ns	8	9	7	8	8	8	7	7	8	7	8	6
Zinc	600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	31	36	37	40.7	38	37	31.6	27.4	33	33	30.5	21.8
Zirconium	ns	0.8	2.6	5.9	2.4	0.8	2.4	9.5	1.3	0.7	1.9	5.5	0.9

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 6: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 9 - LILLOOET											
		SA1				SA2				SA3			
Parameter / Sample Date		20-Jul-04	15-Nov-04	16-Feb-05	25-Apr-05	20-Jul-04	15-Nov-04	16-Feb-05	25-Apr-05	20-Jul-04	15-Nov-04	16-Feb-05	25-Apr-05
General													
pH (Standard Units)	ns	8.8	7.5	7.4	9.7	7.1	6.4	5.9	6.6	6.6	5.0	5.9	6.2
Anions													
Chloride	2500[f]	< 50	160	< 50	<50	< 50	55	61	56	< 50	50	< 50	65
Inorganic Substances													
Aluminum	ns	6000	10600	4610	3670	14000	4600	4290	13900	9700	4250	5100	13100
Antimony	40	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Arsenic	20[d]	0.8	2.5	0.8	0.7	3.9	0.9	0.8	3.7	1.4	1.1	1.2	4.2
Barium	2,000	30.5	98.7	29.5	29.8	139	29.8	37	124	118	31.5	40	117
Beryllium	8	< 0.1	0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	0.1	< 0.1	< 0.1	<0.1	<0.1
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[b]												
	2[d] @pH <7.0						< 0.05	<0.05	0.06	0.06	< 0.05	< 0.05	0.06
	2.5[d] @pH 7.0-<7.5			<0.05		0.07							
	25[d] @pH 7.5-<8.0		< 0.05										
	150[d] @pH ≥8.0	< 0.05			<0.05								
Calcium	ns	1550	2430	1270	1170	3050	1150	1150	2710	3700	1050	1200	2430
Total Chromium	60[c]	11	25	6	10.1	27	7	7	29.8	23	6	9	26.6
Cobalt	300	4.7	8.4	3.1	2.5	10.8	3.2	2.9	9.9	8.2	3.1	3.4	9.9
Copper	250[b]												
	90[d] @pH <5.0												
	100[d] @pH 5.0-<5.5												
	200[d] @pH 5.5-<6.0							9.2				12.8	
	1,500[d] @pH 6.0-<6.5												41.8
	30,000[d] @pH ≥ 6.5	17.9	30.7	10.9	9.9	44.2	12.6		40.1	30.7	12.4		
Iron	ns	11400	17200	8750	7460	21000	8110	7440	22000	14800	8190	8320	21300
Lead	ns/1,000[d]												
	150[d] @pH <6.5												
	250[d] @pH 6.5-<6.0							1.6				4.8	
	2,000[d] @pH 6.0-<6.5												4.2
	40,000[d] @pH ≥ 6.5	9.7	9.8	4.8	1.5	9.8	4.8		4.8	2.1	6.2		
Magnesium	ns	3570	6900	2430	1950	7400	2730	2100	8030	6100	2520	2630	6090
Manganese	ns	180	228	130	93.5	247	125	106	258	187	114	129	277
Mercury	40[c]	< 0.05	0.06	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.6	0.4	0.1	<0.1	1.2	0.1	0.1	1.0	0.9	0.2	0.2	0.8
Nickel	500	5.3	10.2	3.9	4.1	15.4	4.3	4.1	15.1	26.0	4.4	5.6	16.4
Phosphorus	ns	346	679	291	280	469	319	290	510	591	319	283	691
Potassium	ns	880	1590	794	728	1650	729	883	1910	2020	812	1020	1970
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	< 0.05	< 0.05	<0.05	<0.05	0.09	< 0.05	<0.05	0.08	< 0.05	< 0.05	<0.05	0.07
Sodium	1200	379	1160	248	195	652	264	186	858	187	236	228	545
Strontium	100,000	9.5	22.3	7.6	8	27.7	8.4	6.9	22.4	22.2	6.6	8.1	20.2
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.09	<0.05	<0.05	0.12	< 0.05	<0.05	0.12	0.09	< 0.05	<0.05	0.11
Tin	300	< 0.1	0.1	0.3	<0.1	0.2	< 0.1	0.2	0.2	0.1	< 0.1	0.2	0.2
Titanium	ns	366	774	257	240	1070	220	260	1080	661	241	311	1000
Vanadium	ns	24	41	18.1	16.4	54	17	17	50	36	17	17.4	49.6
Zinc	600[b]												
	150[d] @pH <6.0							14.8				19	
	300[d] @pH 6.0-<6.5												56.1
	1,500[d] @pH 6.5-<7.0									35			
	3,000[d] @pH ≥ 7.0	25	43	16.3	16.6	56	19		59.9		18		
Zirconium	ns	< 0.5	0.9	1.2	<0.5	< 0.5	< 0.5	0.8	0.6	< 0.5	< 0.5	1.1	0.5

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter / Sample ID / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 10 - CACHE CREEK SA1 20-Jul-04	SA1 15-Nov-04	SA1 16-Feb-05	SA1 25-Apr-05	SA2 20-Jul-04	SA2 15-Nov-04	SA2 16-Feb-05	SA2 25-Apr-05	SA3 20-Jul-04	SA3 15-Nov-04	SA3 16-Feb-05	SA3 25-Apr-05
General													
pH (Standard Units)	ns	9.0	10.2*	9.0	9.7	8.3	10.2*	7.2	8.8	8.8	8.4	7.3	8.1
Anions													
Chloride	2500[f]	< 50	120	< 50	<50	< 50	64	109	<50	< 50	< 50	< 50	<50
Inorganic Substances													
Aluminum	ns	9410	10200	8460	10500	12300	9560	8190	9940	12100	8800	9220	17200
Antimony	40	0.7	0.4	0.3	0.5	0.6	0.5	0.4	0.4	0.5	0.4	0.5	0.5
Arsenic	20[e]	4.8	5.3	3.7	4.8	4.0	4.9	4.3	5.0	3.1	4.9	3.8	4.5
Barium	2,000	235	75.5	76.6	120	231	68.9	155	165	236	85.2	194	126
Beryllium	8	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3<0.1
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	
Cadmium	100[e]												
	2[d] @pH <7.0									0.42			
	2.5[d] @pH 7.0-<7.5							0.72				0.4	
	25[d] @pH 7.5-<8.0												
	150[d] @pH ≥8.0	0.24	0.50	0.38	0.41	0.32	0.33		0.43		0.39		0.20
Calcium	ns	27800	42000	82000	42900	9040	46900	34900	38600	5080	41000	37800	15300
Total Chromium	60[c]	24	75	70	62.1	30	89	33.9	41.5	42	67	29.4	34.3
Cobalt	300	8.7	16.2	11.0	13.7	10.4	13.8	8.6	12.0	11.2	13.5	8.9	11.2
Copper	250[b]												
	50[d] @pH <5.0												
	100[d] @pH 5.0-<5.5												
	200[d] @pH 5.5-<6.0												
	1,500[d] @pH 6.0-<6.5												
	30,000[d] @pH ≥ 6.5	26.5	46.8	36.3	36.5	28	49	29.4	30.4	26.8	64.3	27.5	43.2
Iron	ns	22900	28100	22000	26500	24300	24100	19200	25690	24300	24800	19900	25700
Lead	ns/1,000[d]												
	150[d] @pH <5.5												
	250[d] @pH 5.5-<6.0												
	2,000[d] @pH 6.0-<6.5												
	40,000[d] @pH ≥ 6.5	10	68.6	48	22.9	5.1	34.7	11.9	9.4	7.3	27.7	7.2	16.4
Magnesium	ns	5840	20200	16300	16600	5970	15700	8360	11700	7470	15100	6520	8070
Manganese	ns	484	521	465	517	593	451	463	526	738	484	548	527
Mercury	40[c]	< 0.05	0.06	<0.05	<0.05	< 0.05	0.36	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.8	1.5	1.2	1.2	0.8	1.2	0.8	1.0	0.9	1.2	0.5	0.7
Nickel	500	32.3	113.0	80.0	88.9	35.8	96.6	43.5	59.2	40.0	81.9	37.4	33.3
Phosphorus	ns	738	763	651	692	1060	752	586	682	559	828	636	720
Potassium	ns	1060	712	656	874	2340	622	1180	879	2410	817	1210	793
Selenium	10	0.6	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.06	0.12	0.07	0.13	0.06	0.1	0.08	0.13	0.05	0.09	0.05	0.07
Sodium	1200	143	1400	309	525	< 100	1070	186	233	< 100	366	<100	155
Strontium	100,000	48.6	94.2	112	79.4	26.9	85.5	56.9	67.7	19.6	94.6	52.2	36
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	0.08	0.1	0.06	0.06	0.07	0.16	0.07	0.13	0.05	0.35	0.07	0.06
Tin	300	0.3	0.2	0.5	0.3	0.3	0.2	0.4	0.3	0.3	0.2	0.5	0.5
Titanium	ns	186	428	310	490	415	417	204	548	538	389	198	851
Vanadium	ns	40	45	34.7	42.4	46	40	34.6	46.8	44	44	38.2	61.1
Zinc	600[e]												
	150[d] @pH <6.0												
	300[d] @pH 6.0-<6.5												
	1,500[d] @pH 6.5-<7.0									91			
	3,000[d] @pH ≥ 7.0	68	79	63.6	73.5	80	68	64.1	65.4		58	60	63.8
Zirconium	ns	0.9	6.1	5.1	4.5	1.4	5.6	8.9	5.1	2	4.2	7.7	2.9

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter / Sample ID / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 11 - KAMLOOPS SA1 20-Jul-04	SA1 15-Nov-04	SA1 16-Feb-05	SA1 25-Apr-05	SA1 DUP 25-Apr-05	SA2 20-Jul-04	SA2 15-Nov-04	SA2 16-Feb-05	SA2 DUP 16-Feb-05	SA2 25-Apr-05	SA3 20-Jul-04	SA3 15-Nov-04	SA3 16-Feb-05	SA3 25-Apr-05
General															
pH (Standard Units)	ns	9.4	9.7	9.3	9.9	10.0	8.3	8.6	8.6	8.6	8.3	7.6	8.1	7.7	8.1
Anions															
Chloride	2500[f]	< 50	< 50	256	<50	<50	< 50	< 50	57	68	<50	170	< 50	< 50	98
Inorganic Substances															
Aluminum	ns	12800	12500	12400	11200	1100	11300	13700	14500	14200	12800	13100	14300	14700	14900
Antimony	40	0.4	0.6	0.5	0.5	0.6	0.4	0.4	0.4	0.4	0.6	0.3	0.3	0.3	0.3
Arsenic	20[d]	5.0	6.7	6.2	6.9	8.3	5.1	6.1	6.3	6.7	6.5	5.1	6.7	6.9	7.7
Barium	2,000	101	106	100	97.6	118	105	91.4	112	99.3	111	119	137	133	143
Beryllium	8	0.1	0.3	0.4	0.2	0.3	0.1	0.3	0.3	0.3	0.3	0.2	0.4	0.4	0.4
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[a] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.16	0.19	0.16	0.26	0.19	0.14	0.20	0.17	0.16	0.20	0.13	0.17	0.15	0.14
Calcium	ns	17700	21100	20000	15100	15600	17900	21600	19800	22100	18100	9170	8680	11100	30500
Total Chromium	60[c]	35	37	30.9	47.3	53	42	32	36.4	34.6	47.2	43	48	46.6	59.7
Cobalt	300	13.6	15.0	12.6	14.6	15.5	12.4	14.1	13.7	12.9	14.1	11.9	13.2	12.6	14.5
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	138	132	99.1	120	125	126	114	140	92.2	133	56.9	66.5	53.1	57.9
Iron	ns	29300	32400	31400	31200	33300	25800	31100	32200	29900	32900	26500	28300	30400	32800
Lead	ns/1,000[a] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	36.9	58.7	48.9	119	171	49.3	38.3	32.4	31.9	53.1	20.9	30	19.7	7.3
Magnesium	ns	12400	15700	12300	14000	16100	11800	13400	13800	13400	15000	9680	10600	11800	16200
Manganese	ns	582	622	628	518	639	562	654	664	668	653	613	668	676	696
Mercury	40[a]	0.07	0.11	0.1	0.09	0.07	0.08	0.12	0.09	0.11	0.17	< 0.05	0.07	<0.05	<0.05
Molybdenum	40	0.8	0.8	0.8	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.6	0.7	0.7	0.7
Nickel	500	39.7	50.5	35.0	58.6	57.6	44.0	39.7	40.0	35.6	50.8	39.0	42.9	43.1	56.4
Phosphorus	ns	1050	1120	966	1000	964	1180	1180	1070	1060	1120	1250	1420	1310	1290
Potassium	ns	1240	1020	1230	1540	1490	1530	1270	1620	1380	1630	2160	2310	2230	2210
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	0.5	<0.5	<0.5	< 0.5	< 0.5	0.7	0.7
Silver	40	0.1	0.1	0.1	0.12	0.12	0.1	0.09	0.11	0.09	0.12	0.09	0.11	0.11	0.12
Sodium	1200	948	1330	1510	1070	1070	755	814	1130	940	845	799	606	585	1170
Strontium	100,000	80.9	86.4	92.2	58	64.7	86.6	88	91.8	96.3	78.7	69.4	69	78	166
Tellurium	ns	< 0.1	< 0.1	---	---	---	< 0.1	< 0.1	---	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.08	0.06	0.06	0.05	< 0.05	0.08	0.07	0.06	0.06	0.06	0.11	0.1	0.09
Tin	300	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.3
Titanium	ns	733	550	562	646	681	657	593	710	650	810	582	583	678	836
Vanadium	ns	79	83	80.3	86.3	86.4	74	81	89.6	83.7	82.7	79	82	88.7	94.3
Zinc	600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	80	76	69.4	84.6	73.6	81	84	74.1	70.3	91.7	73	86	73.6	84.3
Zirconium	ns	2.2	5	17.8	3.9	3.9	1.3	6.4	17.4	19	4.5	2	6.8	22.9	6

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter	Sample ID / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 12 - SUN PEAKS RD. SA1 21-Jul-04	SA1 16-Nov-04	SA1 16-Feb-05	SA1 25-Apr-05	SA2 21-Jul-04	SA2 16-Nov-04	SA2 16-Feb-05	SA2 25-Apr-05	SA3 21-Jul-04	SA3 16-Nov-04	SA3 16-Feb-05	SA3 25-Apr-05
General														
pH (Standard Units)		ns	10.0	10.0	9.4	9.9	9.3	9.6	8.0	9.5	8.5	9.6	7.5	8.9
Anions														
Chloride		2500[j]	< 50	130	< 50	61	< 50	< 50	< 50	<50	< 50	< 50	299	<50
Inorganic Substances														
Aluminum		ns	10900	10700	11700	9940	10600	10400	10400	9370	9250	11600	11200	9870
Antimony		40	0.4	0.3	0.4	0.4	0.3	0.6	0.4	0.4	0.4	0.3	0.4	0.4
Arsenic		20[a]	4.9	6.1	5.7	6.8	5.2	5.2	5.3	6.2	7.9	5.2	6.3	5.7
Barium		2,000	61.7	84.4	78.4	48.4	50.8	57.7	54	67.7	61.9	60.8	75.1	56.5
Beryllium		8	< 0.1	0.2	0.1	0.2	< 0.1	0.1	0.2	0.2	< 0.1	0.1	0.2	0.2
Bismuth		ns	< 0.1	< 0.1	<0.1	<0.1	0.2	< 0.1	<0.1	<0.1	0.1	< 0.1	<0.1	<0.1
Cadmium		100[a] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.25	0.45	0.36	0.13	0.26	0.3	0.32	0.36	0.35	0.37	0.4	0.36
Calcium		ns	8470	13000	11400	10000	8120	9570	10500	13500	16000	15900	10200	20900
Total Chromium		60[c]	19	25	24.9	32.3	25	25	26.4	26.7	29	22	21.6	27
Cobalt		300	8.4	11.2	9.8	19.7	9.0	9.9	9.4	10.5	10.7	9.8	10.0	9.9
Copper		250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	36.2	42.2	37.7	35.4	39	42.7	35.9	40.8	55.1	42.3	39.9	40.5
Iron		ns	22700	25500	26800	37900	24000	24300	24200	26700	23800	26200	25700	25700
Lead		ns/1,000[a] 150[d] @pH <6.5 250[d] @pH 6.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	10.9	23.6	13.7	10.1	28.9	21.2	22.1	23.2	40.5	5.1	19.6	20.9
Magnesium		ns	7330	8840	9040	14800	6180	8510	8620	8960	8400	9190	8240	8470
Manganese		ns	399	519	474	616	471	410	431	514	412	439	467	447
Mercury		40[d]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum		40	1.1	1.4	1.3	0.5	1.1	1.2	1.2	1.4	1.2	1.1	1.5	1.4
Nickel		500	17.6	25.1	23.6	61.1	21.3	23.7	24.1	26.8	26.9	20.9	23.8	24.1
Phosphorus		ns	604	840	746	1220	696	778	711	726.0	710	861	857	759
Potassium		ns	1550	1670	1680	1110	1510	1510	1490	1480	1350	1710	1750	1630
Selenium		10	< 0.5	1.4	0.7	<0.6	< 0.5	< 0.5	0.6	0.5	< 0.5	< 0.5	0.9	<0.5
Silver		40	0.2	0.17	0.23	0.1	0.14	0.16	0.15	0.19	0.12	0.24	0.18	0.17
Sodium		1200	478	553	389	1690	227	310	197	382	148	231	144	254
Strontium		100,000	25.7	37.1	37.5	79.6	25.1	30.1	36	41.8	50.8	39.8	36.6	55.8
Tellurium		ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium		ns	0.09	0.12	0.1	0.06	0.08	0.14	0.08	0.08	0.07	0.12	0.1	0.08
Tin		300	0.1	0.1	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.2
Titanium		ns	536	379	453	1130	509	400	460	586	513	422	507	524
Vanadium		ns	38	40	41.8	58.5	40	40	39.4	40.1	43	42	39.9	41.3
Zinc		600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 8,000[d] @pH ≥ 7.0	55	70	65.6	66	63	57	57.6	71.8	62	62	72	65.5
Zirconium		ns	1.3	3.5	11.4	12.7	0.6	3.3	9.8	3.3	0.9	3.4	12.4	3.7

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (Includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 13 - LONE BUTTE											
		SA1				SA2				SA3			
Parameter / Sample Date		21-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05	21-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05	21-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05
General													
pH (Standard Units)	ns	9.5	8.4	9.1	8.8	7.3	8.4	7.5	8.6	6.0	7.7	7.3	8.1
Anions													
Chloride	2500[1]	< 50	63	< 50	54	< 50	< 50	97	93	< 50	< 50	< 50	<50
Inorganic Substances													
Aluminum	ns	12400	14300	13400	14700	19200	14400	21000	21200	17900	24900	19700	33600
Antimony	40	0.2	0.1	0.2	0.1	< 0.1	0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	0.2
Arsenic	20[c]	3.2	2.3	2.5	1.7	< 0.2	2.0	0.6	0.9	< 0.2	1.2	0.4	2.3
Barium	2,000	62.1	56.6	65	62.8	145	71.8	56.5	80.2	66.3	73.9	9.5	127
Beryllium	8	0.2	0.4	0.4	0.4	0.2	0.4	0.5	0.5	0.2	0.7	0.3	1
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	0.3
Cadmium	100[a]												
	2[a] @pH <7.0									< 0.05			
	2.5[d] @pH 7.0-<7.5					0.07						<0.05	
	25[d] @pH 7.5-<8.0							0.06			0.07		
	150[d] @pH ≥8.0	0.16	0.12	0.13	0.13		0.12		0.09				0.10
Calcium	ns	12900	9750	11700	10000	3200	11200	11300	13100	2660	8590	9220	10000
Total Chromium	60[c]	23	26	27.3	32.3	24	27	25.9	35	23	44	24.6	68.7
Cobalt	300	14.5	17.1	15.4	16.7	14.4	17.0	25.9	26.0	10.0	29.5	40.1	28.2
Copper	250[b]												
	90[a] @pH <5.0												
	100[a] @pH 5.0-<5.5												
	200[a] @pH 5.5-<6.0												
	1,500[a] @pH 6.0-<6.5									11.4			
	30,000[d] @pH ≥ 6.5	38.8	33.4	33.2	35.4	13.6	34	38.5	42.9		41.3	33.2	58.4
Iron	ns	31100	32800	31900	37900	25400	31200	43300	44900	24400	47800	60900	57300
Lead	ns/1,000[a]												
	150[a] @pH <5.5												
	250[a] @pH 5.5-<6.0												
	2,000[a] @pH 6.0-<6.5									6.2			
	40,000[a] @pH ≥ 6.5	13.1	7	10.6	10.1	8.5	11.7	3.6	6.8		4.6	1.7	9.5
Magnesium	ns	11200	13100	12900	14600	4660	13300	22300	21900	5100	22600	32800	22800
Manganese	ns	525	501	545	515	1390	494	561	630	399	624	1020	830
Mercury	40[c]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.6	0.5	0.6	0.5	1.8	0.5	0.4	0.5	0.8	0.4	0.3	0.6
Nickel	500	37.4	51.2	46.0	61.1	29.6	57.2	108.0	110.0	28.2	112.0	164.0	101.0
Phosphorus	ns	1190	1230	1100	1220	1520	1210	1090	1180	1130	1100	1000	943
Potassium	ns	1010	839	967	1110	1380	1390	2310	2260	965	2250	707	4260
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.06	0.07	0.09	0.1	0.11	0.06	0.1	0.11	0.07	0.06	<0.05	0.22
Sodium	1200	1920	1160	1490	1690	599	1170	1790	2820	216	510	312	671
Strontium	100,000	69.5	80	82.5	79.5	20.4	118	212	195	17.1	171	29.9	64.4
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	0.28	0.09	0.07	0.06	0.05	0.08	0.07	0.07	< 0.05	0.13	<0.05	0.31
Tin	300	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.3	0.6
Titanium	ns	789	642	847	1130	961	682	757	1250	977	515	98.4	1230
Vanadium	ns	66	52	64.4	58.5	35	49	37	49.7	34	43	10.4	56.8
Zinc	500[b]											83.1	
	150[a] @pH <6.0												
	300[a] @pH 6.0-<6.5									106			
	1,500[a] @pH 6.5-<7.0												
	3,000[a] @pH ≥ 7.0	60	62	58.1	66	130	59	61.6	72.1		73		97.6
Zirconium	ns	3.9	9.8	39.6	12.7	2.8	10.3	54.3	16	2.6	26.5	22.9	25.9

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter / Sample ID / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 14 - WILLIAMS LAKE SA1 21-Jul-04	SA1 16-Nov-04	SA1 17-Feb-05	SA1 25-Apr-05	SA2 21-Jul-04	SA2 16-Nov-04	SA2 17-Feb-05	SA2 25-Apr-05	SA3 25-Apr-05	SA3 21-Jul-04	SA3 16-Nov-04	SA3 17-Feb-05	SA3 25-Apr-05
General														
pH (Standard Units)	ns	9.5	9.9	9.4	9.4	8.9	8.3	8.0	9.2	9.1	7.8	7.6	7.1	9.2
Anions														
Chloride	2500[f]	< 50	< 50	187	350	480	< 50	89	188	134	< 50	< 50	< 50	87
Inorganic Substances														
Aluminum	ns	12900	8890	10200	12300	11800	9740	12700	11600	13100	14300	10200	15700	13200
Antimony	40	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Arsenic	20[d]	1.6	3.6	1.5	2.0	2.1	2.2	1.9	2.3	2.6	1.3	2.1	2.0	2.4
Barium	2,000	164	94.7	68.5	69.1	91.3	84.2	91.2	84.5	97.8	109	76.6	113	102
Beryllium	8	0.2	0.3	0.2	0.3	0.2	0.3	0.4	0.5	0.4	0.3	0.2	0.4	0.4
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[3] 2[e] @pH <7.0 2.5[e] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[b] @pH ≥8.0	0.13	0.28	0.18	0.12	0.09	0.25	0.15	0.12	0.13	0.18	0.23	0.15	0.17
Calcium	ns	6760	13500	6500	5690	17800	8730	9430	13600	12600	5190	7390	5810	13000
Total Chromium	60[c]	34	37	27.9	32.6	42	40	**68.1**	57.1	51.7	**65**	36	**61.6**	57.7
Cobalt	300	16.1	14.9	11.9	13.2	19.4	12.9	20.7	21.5	21.6	22.7	13.1	22.8	22.5
Copper	250[b] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	39.3	45.6	29.9	35.4	37.9	72.6	37.9	35.7	39.4	32.9	54.1	33.7	42
Iron	ns	29000	29100	25300	29300	31500	26200	36800	34200	36600	36800	27700	41400	39200
Lead	ns/1,000[3] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	5.5	20.8	20.4	9.9	4.8	34.8	8.1	10.2	7	4.4	105	7.4	16.6
Magnesium	ns	9880	10800	11000	10600	14900	12000	16500	17300	16000	13300	11900	13800	17900
Manganese	ns	976	593	440	542	521	459	597	674	583	665	432	735	642
Mercury	40[d]	< 0.05	0.23	0.07	<0.05	0.06	0.07	<0.05	<0.05	0.06	< 0.05	0.07	<0.05	0.06
Molybdenum	40	0.4	1.3	0.7	0.4	0.5	0.9	0.6	0.6	0.7	0.6	0.9	0.7	0.8
Nickel	500	47.7	56.5	46.7	50.5	87.2	55.2	95.3	117.0	100.0	90.9	54.2	85.6	107.0
Phosphorus	ns	903	794	770	787	834	957	902	747	870	908	954	986	873
Potassium	ns	936	759	1120	994	868	1180	1590	881	921	2420	1270	2550	925
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.09	0.08	0.05	0.11	0.11	0.08	0.08	0.12	0.13	0.07	0.05	0.07	0.14
Sodium	1200	**1270**	893	**1390**	**1800**	**1460**	555	757	**1310**	**1390**	439	577	548	**1350**
Strontium	100,000	54.6	62.2	37.9	34.6	87	39.5	59	65	70.5	42.1	45	47.6	75.2
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	—	---	---	< 0.1	< 0.1	---	---
Thallium	ns	0.06	1.65	<0.05	0.06	0.08	0.06	0.07	0.06	0.07	0.07	0.05	0.07	0.12
Tin	300	0.3	6.2	0.3	0.4	0.3	0.3	0.5	0.4	0.4	0.4	0.3	0.5	0.5
Titanium	ns	889	478	575	774	733	531	752	728	857	1130	571	1030	956
Vanadium	ns	57	49	43.2	51.2	43	46	52.5	41.2	46.7	54	45	66	50.6
Zinc	800[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	59	70	53.3	56.8	57	75	65.4	59.3	65	74	62	75.4	73.1
Zirconium	ns	4.3	8.4	22.4	8.6	8.3	6.3	34.1	17.6	19.5	4.1	7.4	34.4	21.1

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5, Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

— - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 15 - RISKE CREEK											
		SA1				SA2				SA3			
Parameter / Sample Date		22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05	22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05	22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05
General													
pH (Standard Units)	ns	9.8	9.5	9.1	9.7	9.1	7.8	8.7	8.9	9.1	10.1[a]	8.8	9.1
Anions													
Chloride	2500[1]	< 50	58	< 50	96	< 50	< 50	< 50	81	< 50	< 50	< 50	86
Inorganic Substances													
Aluminum	ns	9450	9060	9020	9460	9290	9000	8400	8260	11900	7600	8130	7690
Antimony	40	0.2	0.1	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.4	0.3	0.2
Arsenic	20[1]	1.9	2.5	2.9	3.3	1.8	2.2	2.8	3.4	2.9	4.5	3.2	3.4
Barium	2,000	64.6	50.8	76.1	108	81.9	63.6	73.6	98.9	100	106	82.9	95.2
Beryllium	8	< 0.1	0.2	0.2	0.3	< 0.1	0.2	0.3	0.3	0.1	0.3	0.3	0.3
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[a] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0						0.16						
	150[b] @pH ≥8.0	0.16	0.19	0.19	0.18	0.19		0.18	0.20	0.32	0.16	0.16	0.16
Calcium	ns	18000	4250	18300	14500	22300	7540	17200	16100	27400	26500	18200	16900
Total Chromium	60[c]	32	23	30.4	36.8	47	30	23.7	28.3	41	24	26.3	29
Cobalt	300	11.0	9.3	11.5	14.4	11.2	11.1	11.7	16.0	12.4	10.1	11.6	13.4
Copper	250[b] 90[d] @pH <5.0 100[b] @pH 5.0-<5.5 200[b] @pH 5.5-<6.0 1,500[b] @pH 6.0-<6.5 30,000[b] @pH ≥6.5	26.8	27.5	26.8	29.5	26	26.8	26.8	29.2	30.7	29.6	26.1	28
Iron	ns	24000	20900	25800	26500	24700	22900	26000	29600	25800	26900	24700	26900
Lead	ns/1,000[a] 150[b] @pH <5.5 250[b] @pH 5.5-<6.0 2,000[b] @pH 6.0-<6.5 40,000[b] @pH ≥6.5	55.7	5.3	36.2	16.7	85.8	33.2	4.2	3.8	54.6	0.7	15.6	7.9
Magnesium	ns	10600	9060	11800	13000	11500	11600	10400	12800	9710	10100	12300	11100
Manganese	ns	491	302	513	572	544	431	675	593	553	759	567	729
Mercury	40[c]	< 0.05	< 0.05	0.06	0.05	< 0.05	< 0.05	0.05	<0.05	< 0.05	0.11	0.05	0.05
Molybdenum	40	0.6	0.4	0.7	0.7	0.5	0.5	0.7	0.8	0.7	0.9	0.5	0.7
Nickel	500	41.9	37.5	53.4	56.6	49.6	56.6	47.9	65.7	46.7	51.4	59.2	54.7
Phosphorus	ns	808	569	740	784	812	765	1010	738	884	987	821	722
Potassium	ns	602	769	776	769	840	746	625	613	1690	420	586	820
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.05	< 0.05	0.07	0.09	0.05	< 0.05	0.07	0.08	0.08	0.05	0.08	0.08
Sodium	1200	557	666	523	615	391	389	300	371	378	598	345	356
Strontium	100,000	58.9	21	61.4	64.9	66.4	28.2	60.8	72.6	53	93.2	68.7	60.8
Tellurium	ns	< 0.1	< 0.1	—	—	< 0.1	< 0.1	—	—	< 0.1	< 0.1	—	—
Thallium	ns	< 0.05	< 0.05	0.06	0.08	< 0.05	0.06	0.09	0.09	0.25	0.13	0.06	0.11
Tin	300	0.3	0.2	0.4	0.5	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2
Titanium	ns	602	367	511	577	686	392	388	534	617	247	358	519
Vanadium	ns	45	35	43.2	43.3	46	36	40.5	40.6	45	40	36.2	40.8
Zinc	600[c] 150[d] @pH <6.0 300[b] @pH 6.0-<6.5 1,500[b] @pH 6.5-<7.0 3,000[b] @pH ≥7.0	53	45	56.9	63.1	59	54	50.8	60.6	69	57	47.6	57.7
Zirconium	ns	2.5	4.6	19.5	6.2	2.8	4.3	16.3	5.4	1.6	4.2	14.7	5.8

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4; Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5; Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5; Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

— - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 16 - QUESNEL												
		SA1				SA2			DUP			SA3		
Parameter / Sample Date		22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05	22-Jul-04	16-Nov-04	17-Feb-05	17-Feb-05	25-Apr-05	22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05
General														
pH (Standard Units)	ns	8.8	8.1	9.5	8.9	8.6	8.8	7.8	7.7	8.9	8.9	8.1	7.5	7.8
Anions														
Chloride	2500[f]	< 50	< 50	59	<50	< 50	< 50	82	51	<50	< 50	< 50	50	115
Inorganic Substances														
Aluminum	ns	7090	7130	4420	6650	4430	5800	5970	6600	5350	6810	7060	8950	7410
Antimony	40	0.4	0.4	0.9	0.7	0.8	0.8	0.6	0.7	0.8	0.5	0.6	0.5	0.7
Arsenic	20[f]	3.4	9.7	4.4	4.0	4.6	3.9	3.9	4.5	5.1	3.4	4.3	4.1	4.4
Barium	2,000	57.5	57.9	47.6	52.2	49	52.9	60.9	51	63	62.5	100	88.7	78.2
Beryllium	8	< 0.1	0.2	0.1	0.2	< 0.1	0.1	0.2	0.1	0.2	< 0.1	0.3	0.3	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[e] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.21	0.28	0.44	0.4	0.36	0.43	0.38	0.33	0.45	0.31	0.7	0.63	0.4
Calcium	ns	4350	3880	4410	3530	5330	4200	5960	5020	5340	3880	6430	5490	4050
Total Chromium	50[c]	22	22	14.8	16.4	15	19	17.9	17	21.1	27	30	27.7	29.9
Cobalt	300	7.7	8.7	7.1	8.6	6.7	8.4	7.5	7.4	9.3	9.4	10.9	10.4	10.6
Copper	250[e] 90[d] @pH <5.0 100[d] @pH 5.0-<6.5 200[d] @pH 6.5-<8.0 1,500[d] @pH 8.0-<8.5 30,000[d] @pH ≥ 8.5	35.2	42	42.1	44.3	37.6	50.3	37.9	39.2	60.8	46	68.6	38.9	55.8
Iron	ns	18000	19400	16900	18800	14600	18700	17300	17200	20500	18100	21400	21700	26800
Lead	ns/1,000[a] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	40.2	41.1	14.5	34.6	17	41.2	28.7	26.8	58.2	46.9	93.5	23.8	46.8
Magnesium	ns	5390	6140	4020	4980	3700	5140	5320	5310	5430	5260	5600	6720	5550
Manganese	ns	370	400	360	448	349	399	434	452	437	383	478	633	540
Mercury	40[b]	< 0.05	0.06	0.08	<0.05	0.05	0.05	<0.05	0.06	0.06	< 0.05	0.81	0.05	<0.05
Molybdenum	40	0.8	1.2	1.8	1.5	1.4	1.7	1.5	1.8	2.2	2.4	2.9	1.2	2.3
Nickel	500	25.9	26.5	25.4	29.1	23.9	28.6	25.2	22.4	31.3	33.1	35.0	34.9	35.8
Phosphorus	ns	536	613	323	478	347	521	460	461	475	459	1770	574	573
Potassium	ns	549	557	554	524	420	536	656	668	560	536	756	1160	844
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.07	0.06	0.14	0.08	0.11	0.1	0.12	0.09	0.15	0.08	0.12	0.13	0.11
Sodium	1200	509	387	471	456	252	362	464	492	343	416	366	399	475
Strontium	100,000	25.7	23.4	15.9	19.7	23.7	28.1	33.6	26.4	24.5	19.4	31.1	30.6	20
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	---	< 0.1	---	---	---
Thallium	ns	< 0.05	0.11	0.09	0.1	0.06	0.09	0.07	0.08	0.09	0.05	0.1	0.1	0.09
Tin	300	0.3	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.5	21.3
Titanium	ns	473	353	266	400	257	267	342	326	388	552	339	469	570
Vanadium	ns	38	35	28	29	21	27	29.9	30.8	28.8	32	36	38.4	33.9
Zinc	600[e] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	65	91	62.9	77.7	61	89	72.3	68.2	86.5	68	102	62.2	84.4
Zirconium	ns	1.5	3.8	12	3.1	0.9	3.2	9.5	9.2	3.3	2	4.3	17	4

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4; Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 17 - QUESNEL (Hwy 26)											
		SA1				SA2					SA3		
Parameter / Sample Date		22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05	22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05	22-Jul-04	16-Nov-04	17-Feb-05	25-Apr-05
General													
pH (Standard Units)	ns	9.1	9.0	6.9	9.6	9.1	7.8	7.3	8.8	8.4	6.9	7.8	8.7
Anions													
Chloride	2500[1]	< 50	< 50	114	123	< 50	< 50	< 50	78	< 50	190	< 50	73
Inorganic Substances													
Aluminum	ns	8770	8560	7970	8520	8750	10100	7640	8150	9570	12800	8840	9060
Antimony	40	0.4	0.5	0.5	0.9	0.9	0.9	0.5	1.0	1.5	1.5	0.7	1.2
Arsenic	20[1]	3.6	5.9	5.2	7.5	6.1	7.4	4.1	7.6	8.4	9.4	5.7	8.4
Barium	2,000	54.7	54.2	49.3	75.5	46.2	73.6	52.8	84.3	68.8	95.3	57.2	63.7
Beryllium	8	< 0.1	0.2	0.2	0.3	< 0.1	0.3	0.2	0.2	< 0.1	0.4	0.2	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[c]												
	2[a] @pH <7.0			0.34							1.05		
	2.5[a] @pH 7.0-<7.5							0.29					
	25[a] @pH 7.5-<8.0						0.63					0.46	
	150[a] @pH ≥8.0	0.22	0.37		0.67	0.53			0.58	0.59			0.73
Calcium	ns	7680	4900	9260	18800	16500	14400	5180	13600	20900	12500	12200	17300
Total Chromium	60[c]	24	25	25.4	30.4	25	38	25.9	28.9	27	41	28.2	31
Cobalt	300	7.3	10.0	7.7	9.7	8.7	11.2	7.3	10.1	9.6	13.4	9.1	11.0
Copper	250[b]												
	90[d] @pH <5.0												
	100[a] @pH 5.0-<5.5												
	200[a] @pH 5.5-<6.0												
	1,500[d] @pH 6.0-<6.5												
	30,000[a] @pH ≥ 6.5	22.1	31.2	27.8	36.5	33.8	37.6	28.5	37	37.8	56.5	33.3	41.1
Iron	ns	17900	20700	19300	24200	21300	24400	16600	24600	22700	28400	21800	25200
Lead	ns/1,000[a]												
	150[d] @pH <5.5												
	250[a] @pH 5.5-<6.0												
	2,000[a] @pH 6.0-<6.5												
	40,000[a] @pH ≥ 6.5	8.2	26.1	11.6	11.9	9	39.8	11.3	12.4	14.7	33.1	11.1	16
Magnesium	ns	5360	6270	6470	9610	7510	9220	5970	7540	7750	9510	7320	9380
Manganese	ns	379	399	370	501	412	524	424	515	451	347	435	515
Mercury	40[c]	< 0.05	0.06	<0.05	0.07	0.06	0.07	<0.05	0.06	0.12	0.31	<0.05	0.07
Molybdenum	40	0.7	1.1	0.9	1.5	1.4	1.4	1.1	1.8	1.8	1.5	1.2	1.7
Nickel	500	24.5	32.6	29.4	34.6	28.4	38.7	29.4	33.4	33.4	47.9	32.4	38.1
Phosphorus	ns	509	680	641	870	790	859	629	676	643	926	670	692
Potassium	ns	485	566	738	657	494	877	564	722	622	611	784	632
Selenium	10	< 0.5	< 0.5	0.5	0.6	< 0.5	< 0.5	<0.5	<0.5	< 0.5	0.5	<0.5	<0.5
Silver	40	0.08	0.08	0.09	0.12	0.14	0.12	0.11	0.13	0.14	0.17	0.12	0.14
Sodium	1200	279	778	524	743	747	351	611	296	291	596	323	339
Strontium	100,000	33.5	22.5	37.4	56	74.3	65.8	26.7	59.2	79.2	55.6	60.2	73.1
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.32	0.07	0.21	0.08	0.16	0.06	0.14	0.13	0.22	0.09	0.15
Tin	300	0.2	0.3	2.9	0.2	0.2	0.2	0.6	0.2	0.8	0.3	0.4	0.3
Titanium	ns	481	396	432	490	485	444	428	525	522	476	436	479
Vanadium	ns	39	38	42.1	47.7	49	52	39.9	48.1	51	59	47.9	48.2
Zinc	600[b]												
	150[d] @pH <6.0		98										
	300[d] @pH 6.0-<6.5												
	1,500[d] @pH 6.5-<7.0			64.4							141		
	3,000[d] @pH ≥ 7.0	57			99.2	62	105	60.6	91	89		73.9	113
Zirconium	ns	1.1	3	15	4.4	1.7	4	14.3	4.1	1.5	5.4	16	9.4

Notes:

Soil concentrations are in ug/g or ppm

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 16 - PRINCE GEORGE											
		SA1				SA2				SA3			
Parameter / Sample Date		25-Jul-04	17-Nov-04	17-Feb-05	25-Apr-05	25-Jul-04	17-Nov-04	17-Feb-05	25-Apr-05	25-Jul-04	17-Nov-04	17-Feb-05	25-Apr-05
General													
pH (Standard Units)	ns	8.0	8.0	7.8	9.2	9.1	7.8	7.8	8.9	8.3	8.4	7.8	9.0
Anions													
Chloride	2500[1]	< 50	80	376	181	< 50	< 50	220	205	< 50	< 50	74	239
Inorganic Substances													
Aluminum	ns	8470	10700	9000	9020	9500	11200	7470	8720	7280	11100	8040	10300
Antimony	40	0.3	0.4	0.2	0.4	0.2	0.7	0.4	0.5	0.3	0.7	0.5	0.6
Arsenic	20[1]	2.0	3.0	2.1	3.0	2.1	6.2	3.6	4.6	2.3	6.5	4.6	5.6
Barium	2,000	49.1	67.6	48.3	50.6	47.1	54.3	53.5	57.9	62.1	57.4	56	60.3
Beryllium	8	< 0.1	0.2	0.2	0.2	< 0.1	0.2	0.2	0.2	< 0.1	0.3	0.2	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[1]												
	2[2] @pH <7.0												
	2.5[2] @pH 7.0-<7.5												
	25[2] @pH 7.5-<8.0			0.15			0.3	0.2				0.23	
	150[2] @pH ≥8.0	0.14	0.25		0.23	0.16			0.30	0.14	0.29		0.27
Calcium	ns	9040	4130	5700	4280	9090	6500	4380	4760	4690	7220	5930	7340
Total Chromium	60[3]	28	28	22.9	27.2	28	41	21	29.8	31	28	20.9	27.6
Cobalt	300	7.7	8.9	7.8	8.6	8.4	11.9	7.2	8.3	7.3	10.6	7.4	9.3
Copper	250[1]												
	90[2] @pH <5.0												
	100[2] @pH 5.0-<5.5												
	200[2] @pH 5.5-<6.0												
	1,500[2] @pH 6.0-<6.5												
	30,000[2] @pH ≥ 6.5	20.7	27.9	17.9	25.1	21.6	32.9	21.5	27.1	18.3	36.8	23.9	28.7
Iron	ns	17100	22200	16700	21000	18200	23500	16700	21100	17500	24100	19600	23600
Lead	ns/1,000[1]												
	150[2] @pH <5.5												
	250[2] @pH 5.5-<6.0												
	2,000[2] @pH 6.0-<6.5												
	40,000[2] @pH ≥ 6.5	23.6	16.6	16.2	21	22.9	10	10.2	17.4	71.2	11.3	12.5	16.2
Magnesium	ns	5470	7010	5450	6410	5640	7550	5070	6110	4960	7040	5650	6470
Manganese	ns	335	406	341	465	334	466	362	432	333	446	363	455
Mercury	40[1]	< 0.05	0.08	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	0.06	<0.05	<0.05
Molybdenum	40	0.7	0.8	0.8	0.8	0.7	1.1	0.8	0.8	0.6	1.2	0.8	0.9
Nickel	500	22.7	33.3	24.2	28.9	25.0	33.6	24.0	28.0	24.3	29.0	23.2	27.1
Phosphorus	ns	557	634	590	767	646	724	498	594	509	697	509	901.0
Potassium	ns	276	687	502	711	265	649	752	780	391	581	594	630
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.06	0.07	0.06	0.09	0.06	0.1	0.06	0.11	< 0.05	0.12	0.09	0.09
Sodium	1200	< 100	498	689	614	214	290	614	656	193	295	383	547
Strontium	100,000	17.5	11.7	19.4	16.8	32.6	21.3	17.5	16.5	18.4	25.4	18.7	30.9
Tellurium	ns	< 0.1	< 0.1	—	—	< 0.1	< 0.1	—	—	< 0.1	< 0.1	—	—
Thallium	ns	< 0.05	0.11	<0.05	0.05	0.13	0.07	<0.05	<0.05	0.05	0.07	0.06	0.07
Tin	300	0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2
Titanium	ns	602	494	522	586	606	410	389	545	574	389	395	471
Vanadium	ns	33	40	36.3	36.4	36	37	31.1	35.2	33	36	31.4	35.7
Zinc	600[1]												
	150[2] @pH <6.0												
	300[2] @pH 6.0-<6.5												
	1,500[2] @pH 6.5-<7.0												
	3,000[2] @pH ≥ 7.0	45	66	47.3	62.8	44	62	51.6	66.9	49	64	52.6	60.3
Zirconium	ns	1.6	3.5	11.9	3	1.8	3.5	13	3.6	2	3.1	10.4	2.6

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 19 - SALMON ARM												
		SA1			DUP		SA2				SA3			
Parameter / Sample Date		25-Jul-04	17-Nov-04	15-Feb-05	15-Feb-05	19-Apr-05	25-Jul-04	17-Nov-04	15-Feb-05	19-Apr-05	25-Jul-04	17-Nov-04	15-Feb-05	19-Apr-05
General														
pH (Standard Units)	ns	9.4	9.9	9.5	9.6	9.7	9.1	9.5	9.4	9.8	9.0	9.7	7.5	9.8
Anions														
Chloride	2500[b]	< 50	< 50	269	258	119	< 50	< 50	201	103	< 50	< 50	200	<50
Inorganic Substances														
Aluminum	ns	4370	5630	5030	4550	4510	5050	4310	4890	3080	4450	4090	6960	3910
Antimony	40	< 0.1	< 0.1	0.4	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	0.1	<0.1
Arsenic	20[d]	< 0.2	1.4	1.3	0.9	0.9	< 0.2	0.9	0.4	1.5	< 0.2	1.1	1.0	0.8
Barium	2,000	31.8	41.1	31.2	34	31.9	42.8	25.8	33.1	31	49.1	28	53.8	34.2
Beryllium	8	< 0.1	0.3	0.2	0.2	0.2	< 0.1	0.2	0.2	0.2	< 0.1	0.2	0.2	0.2
Bismuth	ns	< 0.1	0.2	0.2	0.1	0.2	< 0.1	0.1	<0.1	0.3	< 0.1	0.2	0.1	0.2
Cadmium	100[a] 2[a] @pH <7.0 2.5[a] @pH 7.0-<7.5 25[a] @pH 7.5-<8.0 150[a] @pH ≥8.0	0.09	0.16	0.29	0.13	0.18	0.11	0.12	0.13	0.13	0.09	0.12	0.19	0.13
Calcium	ns	4760	12200	7400	9840	4260	5690	8470	7420	8570	10900	14300	4940	7460
Total Chromium	60[c]	14	15	11.7	10.4	11	13	10	10.6	18	12	10	18	10
Cobalt	300	3.8	6.9	4.7	4.9	5.9	3.5	4.4	3.4	5.9	9.5	4.3	4.7	4.5
Copper	250[b] 90[a] @pH <5.0 100[a] @pH 5.0-<5.5 200[a] @pH 5.5-<6.0 1,500[a] @pH 6.0-<6.5 30,000[a] @pH ≥6.5	11.2	29	19.6	14.4	18.2	10.7	13.3	9.9	16.5	10.7	13.3	14.7	13.4
Iron	ns	9480	16900	13200	13600	16000	9650	12900	9980	15300	8910	12400	12400	12500
Lead	ns/1,000[a] 150[a] @pH <5.5 250[a] @pH 5.5-<6.0 2,000[a] @pH 6.0-<6.5 40,000[a] @pH ≥6.5	48.9	31.5	43.7	25	24.3	23.9	19.6	21.1	21.7	21.4	13.7	42	17.9
Magnesium	ns	2440	3570	3070	2770	2820	2960	2700	2800	2260	2820	2780	3790	2180
Manganese	ns	136	242	196	222	210	148	181	173	203	141	178	204	175
Mercury	40[c]	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.3	0.6	0.5	0.5	0.5	0.3	0.4	0.3	0.5	0.3	0.4	0.5	0.5
Nickel	500	8.0	16.0	11.2	11.0	13.4	10.0	10.9	9.2	15.7	7.1	10.9	9.9	11.0
Phosphorus	ns	323	443	282	364	310	410	300	367	298	332	296	572	288
Potassium	ns	689	1270	1200	1290	1290	1150	942	1040	1130	1120	1010	1650	980
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	0.5	< 0.5	< 0.5	<0.5	0.5	< 0.5	< 0.5	<0.5	0.5
Silver	40	< 0.05	0.08	0.07	<0.05	0.06	< 0.05	0.05	<0.05	0.08	< 0.05	0.06	<0.05	0.06
Sodium	1200	170	376	471	453	353	167	219	317	260	154	185	534	156
Strontium	100,000	29.4	49.1	28.6	37.2	21.9	26.1	36	31.5	39.4	45.8	53.5	24.4	36.5
Tellurium	ns	< 0.1	< 0.1	---	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.1	0.11	0.07	0.08	0.05	0.07	0.06	0.15	< 0.05	0.07	0.09	0.07
Tin	300	0.2	0.2	0.4	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.4	0.2
Titanium	ns	260	241	214	223	225	304	172	226	194	302	179	994	194
Vanadium	ns	13	15	13.9	12.4	11.4	15	11	13.7	10.9	13	10	18.9	10
Zinc	600[b] 150[a] @pH <6.0 300[a] @pH 6.0-<6.5 1,500[a] @pH 6.5-<7.0 3,000[a] @pH ≥7.0	35	54	54	42.6	50.2	32	46	37.9	46.9	31	42	61.3	48
Zirconium	ns	< 0.5	1	2.1	2.1	0.5	< 0.5	0.5	2.1	<0.5	< 0.5	< 0.5	3	<0.5

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 6 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5; Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5; Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 20 - REVELSTOKE												
		SA1				SA2				DUP	SA3			
Parameter / Sample Date		25-Jul-04	17-Nov-04	15-Feb-05	19-Apr-05	25-Jul-04	17-Nov-04	15-Feb-05	19-Apr-05	19-Apr-05	25-Jul-04	17-Nov-04	15-Feb-05	19-Apr-05
General														
pH (Standard Units)	ns	9.4	9.4	9.0	8.6	8.8	9.3	8.9	8.6	8.7	8.4	9.1	9.0	7.7
Anions														
Chloride	2500[f]	< 50	260	206	358	< 50	400	83	265	192	< 50	340	152	<50
Inorganic Substances														
Aluminum	ns	7970	8640	5160	5360	7780	7280	5810	5000	5040	7740	8250	4650	6920
Antimony	40	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.6	0.2	0.2	0.1	0.2
Arsenic	20[a]	9.2	6.6	7.5	11.8	8.3	11.0	6.9	11.8	12.4	8.0	6.6	21.0	8.7
Barium	2,000	46.9	41.7	39.2	43.7	43.3	47.3	34.4	39.9	40.6	45.4	43.1	27.6	50.5
Beryllium	8	< 0.1	0.2	0.1	<0.1	< 0.1	0.2	0.1	0.1	0.1	< 0.1	0.1	<0.1	0.1
Bismuth	ns	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2
Cadmium	100[a] 2[a] @pH <7.0 2.5[a] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[a] @pH ≥8.0	0.19	0.18	0.46	0.3	0.21	0.2	0.12	0.26	0.27	0.22	0.24	0.34	0.27
Calcium	ns	20200	18600	39300	23200	16800	21400	43900	16800	23500	18400	17100	21100	20700
Total Chromium	60[c]	18	21	10	15.1	18	17	9	14.3	11.8	17	18	8	13.7
Cobalt	300	8.8	9.5	5.8	8.9	9.5	9.0	6.3	8.3	8.3	9.2	9.5	6.2	9.9
Copper	250[b] 90[a] @pH <5.0 100[a] @pH 5.0-<5.5 200[a] @pH 5.5-<6.0 1,600[a] @pH 6.0-<6.5 30,000[a] @pH ≥ 6.5	19.6	21.4	11.9	20.7	26.2	20	11.8	19.4	19.1	23.1	22.3	11.7	20.1
Iron	ns	22800	26200	17400	20200	22300	24500	18000	19900	19700	24500	22500	18200	21200
Lead	ns/1,000[f] 150[a] @pH <5.5 250[a] @pH 5.5-<6.0 2,000[a] @pH 6.0-<6.5 40,000[a] @pH ≥ 6.5	25.5	24.7	16.4	37.1	24.1	21.4	14.8	27.1	26.4	25.9	22.5	10.9	29.7
Magnesium	ns	6970	8570	8280	6560	7190	7090	11000	5950	6450	6930	7220	6050	6540
Manganese	ns	387	366	379	400	376	397	470	261	336	411	411	368	426
Mercury	40[a]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.8	0.7	0.7	0.9	1.0	0.6	0.5	0.9	0.9	0.9	0.7	0.5	0.8
Nickel	500	22.7	25.4	15.6	21.4	26.8	23.6	16.7	22.0	19.6	24.0	24.4	15.1	22.4
Phosphorus	ns	493	483	361	330	454	449	310	477	398	424	574	258	452
Potassium	ns	1080	1160	790	931	1080	988	728	921	840	1230	1110	563	874
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	0.6	<0.5	< 0.5	< 0.5	<0.5	0.5
Silver	40	0.07	0.07	<0.05	0.1	0.09	0.06	0.05	0.09	0.09	0.08	0.12	<0.05	0.09
Sodium	1200	180	462	306	437	106	549	193	370	304	< 100	543	209	197
Strontium	100,000	68.8	51.5	111	67.4	62.5	67.8	142	80	83.3	56.3	52.8	67.9	75.2
Tellurium	ns	< 0.1	< 0.1	—	—	< 0.1	< 0.1	—	—	—	< 0.1	< 0.1	—	—
Thallium	ns	0.05	0.1	0.05	0.08	0.1	0.07	<0.05	0.07	0.07	0.1	0.09	<0.05	0.05
Tin	300	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.1	0.3
Titanium	ns	138	229	110	152	214	172	123	149	147	212	180	98	157
Vanadium	ns	14	19	9	10.9	14	13	14.2	11.8	10	14	14	9	12.1
Zinc	600[c] 150[a] @pH <6.0 360[a] @pH 6.0-<6.5 1,500[a] @pH 6.5-<7.0 3,000[a] @pH ≥ 7.0	62	51	44.1	72	65	69	38.6	62.6	58.6	60	64	36.4	63.4
Zirconium	ns	< 0.5	1.5	2.7	0.7	< 0.5	1	2.9	0.6	0.6	< 0.5	1	2.9	0.7

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4; Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

— - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID / Parameter / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 21 - RADIUM / BRISCO											
		SA1				SA2				SA3			
		25-Jul-04	17-Nov-04	16-Feb-05	19-Apr-05	25-Jul-04	17-Nov-04	16-Feb-05	19-Apr-05	25-Jul-04	17-Nov-04	16-Feb-05	19-Apr-05
General													
pH (Standard Units)	ns	8.4	9.2	9.4	7.6	8.8	9.1	8.7	8.4	8.6	8.1	7.6	7.5
Anions													
Chloride	2500[1]	< 50	< 50	69	198	< 50	< 50	< 50	295	< 50	< 50	< 50	1660
Inorganic Substances													
Aluminum	ns	4640	2320	2600	2230	2650	2650	1780	2430	4050	2230	2780	2560
Antimony	40	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Arsenic	20[d]	3.1	1.8	2.8	2.3	0.9	2.4	1.7	2.5	1.6	1.8	7.1	2.5
Barium	2,000	171	219	377	343	232	229	234	372	150	296	359	413
Beryllium	8	< 0.1	0.2	0.2	0.2	< 0.1	0.1	0.1	0.1	< 0.1	0.1	0.2	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[a]												
	2[d] @pH <7.0												
	2.5[d] @pH 7.0-<7.5												
	25[d] @pH 7.5-<8.0				0.14							0.1	0.11
	150[d] @pH ≥8.0	0.2	0.08	0.13		0.08	0.12	0.07	0.11	0.1	0.09		
Calcium	ns	111000	123000	162000	117000	125000	99200	161000	126000	99000	97600	149000	132000
Total Chromium	60[c]	10	6	9	8	6	7	6	9	9	9	15.1	9
Cobalt	300	4.2	2.4	2.5	2.7	2.7	2.7	1.7	2.7	3.6	2.4	2.7	3.0
Copper	250[d]												
	90[d] @pH <5.0												
	100[d] @pH 5.0-<5.5												
	200[d] @pH 5.5-<6.0												
	1,500[d] @pH 6.0-<6.5												
	30,000[d] @pH ≥ 6.5	9.1	9.4	8.9	9.9	6.5	6.2	10.8	8.9	7.2	6.1	13.7	21.6
Iron	ns	12900	7050	8770	10300	7480	8920	5900	9780	10900	7530	9440	10400
Lead	ns/1,000[a]												
	150[d] @pH <5.5												
	250[d] @pH 5.5-<6.0												
	2,000[d] @pH 6.0-<6.5												
	40,000[d] @pH ≥ 6.5	25.9	8.2	18.6	20.9	12.3	20.9	17.2	19.7	17.6	19.5	21.5	18.3
Magnesium	ns	27700	31200	34500	25900	31100	24300	41400	25200	26500	20700	34300	25100
Manganese	ns	240	209	271	29900	203	205	235	244	186	163	246	253
Mercury	40[b]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.7	0.6	0.9	1.0	0.9	0.7	0.5	0.8	0.5	0.7	1.0	1.3
Nickel	500	15.9	7.6	7.8	9.1	12.8	12.5	5.2	8.4	13.8	11.7	9.2	9.9
Phosphorus	ns	366	268	320	273	364	301	368	232	326	355	341	355
Potassium	ns	320	329	387	412	442	258	310	434	294	217	394	527
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Sodium	1200	101	< 100	188	225	< 100	< 100	112	248	< 100	< 100	<100	1100
Strontium	100,000	110	145	189	42	126	138	141	145	137	136	165	155
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	0.27	<0.05	0.07	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Tin	300	0.2	< 0.1	0.2	0.3	< 0.1	0.1	0.1	0.2	0.1	0.1	0.3	0.4
Titanium	ns	20	19	11.9	17.9	15	15	8	18.6	16	11	15.3	22.2
Vanadium	ns	7	6	8	7	6	8	5	7	6	7	7	8
Zinc	600[a]												
	150[d] @pH <6.0												
	300[d] @pH 6.0-<6.5												
	1,500[d] @pH 6.5-<7.0												
	3,000[d] @pH ≥ 7.0	50	20	24.6	26.3	23	39	17	29.2	39	28	30.1	26.8
Zirconium	ns	< 0.5	1.9	4.7	1.1	< 0.5	1.4	3.7	0.8	< 0.5	1	4.3	0.8

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 Unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 22 - ARMSTRONG SA1			DUP	SA2					SA3			
		25-Jul-04	18-Nov-04	15-Feb-05	15-Feb-05	19-Apr-05	25-Jul-04	18-Nov-04	15-Feb-05	19-Apr-05	25-Jul-04	18-Nov-04	15-Feb-05	19-Apr-05
General														
pH (Standard Units)	ns	8.8	9.4	9.6	9.6	9.4	9.4	9.6	8.9	9.1	9.4	8.9	7.3	6.1
Anions														
Chloride	2500[f]	< 50	100	96	93	<50	< 50	< 50	< 50	<50	< 50	84	< 50	<50
Inorganic Substances														
Aluminum	ns	7370	5940	6990	6640	5680	6220	4900	6990	5390	6690	4700	7240	4680
Antimony	40	0.2	< 0.1	0.2	0.1	0.1	0.4	< 0.1	0.2	0.2	0.2	0.4	0.3	0.3
Arsenic	20[d]	0.9	1.6	1.1	1.2	0.6	0.4	0.5	1.4	0.9	1.3	2.1	2.1	1.7
Barium	2,000	44.7	52.2	48.5	46.4	43.4	42.4	39.7	48.3	40.4	49.6	45.7	59.3	44.6
Beryllium	8	< 0.1	0.2	0.2	0.2	0.2	< 0.1	0.2	0.2	0.2	< 0.1	0.2	0.3	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	0.1	<0.1	<0.1
Cadmium	100[f] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.21	0.18	0.27	0.25	0.18	0.26	0.12	0.32	0.25	0.23	0.38	0.26	0.94
Calcium	ns	3060	2530	4260	3970	3180	6270	2180	6680	3290	4710	7930	11100	4630
Total Chromium	60[c]	19	14	17.2	16.8	14.6	18	14	44.3	22.6	20	19	25.8	21.1
Cobalt	300	5.2	4.7	4.8	4.9	4.7	4.7	3.7	5.8	4.7	4.8	5.0	6.6	5.1
Copper	250[f] 90[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	20.4	13.7	17.1	18.1	13.9	18.7	11.8	21.5	19.8	15.8	17.6	34.1	20
Iron	ns	14100	10900	13600	14000	12400	13400	9870	16700	14500	12200	12900	20600	13900
Lead	ns/1,000[f] 150[d] @pH <6.5 250[d] @pH 6.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	89.8	32.8	39.1	35.3	23	68.6	41.6	160	58.2	117	50.7	40.3	64.1
Magnesium	ns	4290	3500	4750	4290	3830	4930	3120	5220	3640	3840	4120	6080	3860
Manganese	ns	258	185	231	238	226	221	158	256	244	221	208	321	234
Mercury	40[f]	<0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.6	0.5	0.5	0.6	0.4	0.6	0.3	0.8	0.4	0.5	0.7	1.4	0.7
Nickel	500	14.6	14.3	13.5	13.4	14.8	13.0	11.2	15.6	13.3	14.2	14.4	20.9	14.6
Phosphorus	ns	584	429	561	514	469	580	379	660	465	555	655	1080	496
Potassium	ns	1320	1290	2020	1610	1670	1200	1230	1520	1540	1240	1060	1490	1340
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	1.0	0.5	0.6	< 0.5	<0.6	0.5
Silver	40	0.07	0.07	0.05	0.06	0.06	0.05	< 0.05	0.07	0.05	0.07	0.1	0.09	0.07
Sodium	1200	450	616	534	514	499	360	358	810	398	336	483	692	426
Strontium	100,000	19.1	17.7	24.6	22.7	19.2	38.1	16	38.8	19.7	26.4	64.6	71.9	29.3
Tellurium	ns	< 0.1	< 0.1	---	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	0.07	< 0.05	0.06	0.06	0.09	0.05	< 0.05	0.07	0.07	0.05	< 0.05	0.07	0.12
Tin	300	0.4	0.3	0.5	0.4	0.3	2	0.2	0.6	0.5	0.6	0.5	0.9	0.6
Titanium	ns	415	313	403	392	424	368	261	460	382	373	309	484	355
Vanadium	ns	25	24	24.6	25	21.5	24	16	30.3	21.9	22	26	36.2	22.4
Zinc	600[f] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @pH ≥ 7.0	71	38	56.5	57.9	40.9	67	36	78.8	61.9	57	61	70.7	60.2
Zirconium	ns	0.9	3.8	6.9	7.5	1.6	0.7	1.6	9	1.2	0.9	2.1	15.2	1.2

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 23 - KELOWNA												
		SA1			DUP			SA2				SA3		
Parameter / Sample Date		27-Jul-04	18-Nov-04	15-Feb-05	15-Feb-05	20-Apr-05	27-Jul-04	18-Nov-04	15-Feb-05	20-Apr-05	27-Jul-04	18-Nov-04	15-Feb-05	20-Apr-05
General														
pH (Standard Units)	ns	6.0	7.4	8.9	9.2	8.0	7.8	8.0	7.8	7.8	7.4	8.5	7.4	8.1
Anions														
Chloride	2500[f]	< 50	400	265	233	<50	< 50	< 50	96	<50	< 50	< 50	161	<50
Inorganic Substances														
Aluminum	ns	6330	5810	5940	5120	4510	5780	3310	5790	4110	6560	5290	4730	4160
Antimony	40	0.2	0.2	<0.1	<0.1	0.1	< 0.1	< 0.1	0.1	0.1	0.1	0.1	<0.1	0.2
Arsenic	20[d]	12.1	5.2	0.6	0.6	4.2	2.9	1.0	1.5	2.1	3.8	1.4	2.1	1.7
Barium	2,000	84.8	83.9	70.5	66.8	75.1	79.4	42.5	70.2	64.2	84.3	97.4	89.8	79.9
Beryllium	6	< 0.1	0.1	0.1	0.1	0.1	< 0.1	0.1	0.1	0.1	< 0.1	< 0.1	0.1	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	0.1	<0.1	<0.1
Cadmium	100[1]													
	2[c] @pH <7.0	0.09												
	2.5[c] @pH 7.0-<7.5		0.2								0.07		0.1	
	25[c] @pH 7.5-<8.9						0.08			0.1				
	150[c] @pH ≥8.9			0.07	0.06	0.12		0.07	0.11			0.06		0.1
Calcium	ns	2640	3380	2570	2470	1840	2710	1840	2860	2670	4570	2540	2180	2460
Total Chromium	60[c]	22	12	9	8	10.5	11	9	15.4	13	16	14	12.8	16.4
Cobalt	300	4.5	5.0	4.2	3.3	4.9	4.7	3.0	4.8	3.9	5.4	3.7	3.5	4.7
Copper	250[c]													
	90[c] @pH <5.0													
	100[c] @pH 5.0-<5.5													
	200[c] @pH 5.5-<6.0													
	1,500[c] @pH 6.0-<6.5	96.9												
	30,000[c] @pH ≥ 6.5			25.3	11.8	9.5	23.3	21	17.1	16.8	19.4	24.8	24.1	17.2	20.9
Iron	ns	18600	14300	14300	10700	15800	12900	9260	16400	14200	15900	10800	12300	16100
Lead	ns/1,000[1]													
	150[c] @pH <5.5													
	250[c] @pH 5.5-<6.0													
	2,000[c] @pH 6.0-<6.5	11.2												
	40,000[c] @pH ≥ 6.5			33	2.1	1.8	8.0	4.8	5.1	10.2	11.3	6.4	3.7	6.4	10.8
Magnesium	ns	3450	3940	4170	3390	2950	3380	2600	3950	2380	4160	2990	2980	3250
Manganese	ns	188	216	225	181	205	217	140	237	196	234	170	179	222
Mercury	40[1]	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	1.5	0.9	0.2	0.2	0.7	0.5	0.6	0.7	0.6	0.7	0.8	1.1	0.7
Nickel	500	8.5	10.7	6.1	5.0	8.4	7.8	5.4	7.8	6.2	9.6	6	7.4	8.0
Phosphorus	ns	518		407	395	427	527		548	454	556		417	541
Potassium	ns	1630	1930	2150	1850	1810	1540	984	1740	1350	1850	1050	1520	1810
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	0.7	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.07	0.07	<0.05	<0.05	0.06	0.05	< 0.05	0.06	0.05	0.08	< 0.05	<0.05	0.06
Sodium	1200	523	625	583	577	437	371	219	535	297	339	305	595	486
Strontium	160,000	23.6	24.3	15.7	18.4	16	38.8	13.7	31.1	19.4	25	16.9	19.5	30.7
Tellurium	ns	< 0.1	< 0.1	---	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	0.18	0.18	0.12	0.11	0.16	0.1	< 0.05	0.1	0.17	0.14	< 0.05	0.09	0.19
Tin	300	0.3	0.3	0.1	0.1	0.3	0.2	0.2	0.3	0.3	0.2	0.1	0.3	0.5
Titanium	ns	479	407	465	375	390	415	225	451	357	544	345	342	486
Vanadium	ns	48	33	33.6	26	33.8	33	22	39.5	32.8	41	32	30.4	33.9
Zinc	600[c]													
	150[c] @pH <6.0													
	300[c] @pH 6.0-<6.5	45												
	1,500[c] @pH 6.5-<7.0													
	3,000[c] @pH ≥ 7.0			50	27.7	24.9	43.8	41	32	47.5	38.6	42	36	39.7	47.9
Zirconium	ns	0.8	2.8	3.8	3.2	1.8	0.8	1.4	3.1	1.7	1.2	2.3	6.9	3.2

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CLL 1997 BC Reg 375/96 (Includes amendments up to BC Reg 324/2004).
Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5, Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5, Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 24 - MERRIT											
		SA1				SA2				SA3			
Parameter / Sample Date		27-Jul-04	18-Nov-04	15-Feb-05	20-Apr-05	27-Jul-04	18-Nov-04	15-Feb-05	28-Apr-05	27-Jul-04	18-Nov-04	15-Feb-05	20-Apr-05
General													
pH (Standard Units)	ns	9.8	10.1	9.6	9.5	9.2	9.9	9.6	9.6	9.5	8.3	9.2	9.3
Anions													
Chloride	2500[f]	< 50	65	142	281	150	< 50	70	53	< 50	92	< 50	184
Inorganic Substances													
Aluminum	ns	10900	6280	12200	9310	11700	8320	11100	8870	12000	8860	11000	8480
Antimony	40	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.2	0.3	0.2	0.3
Arsenic	20[c]	2.3	2.9	3.2	3.2	2.2	3.1	3.1	3.8	2.4	2.8	2.6	3.8
Barium	2,000	43.3	43.9	51.4	54.6	56.6	40.9	57.5	47.9	58.6	59.7	64	46
Beryllium	8	< 0.1	0.2	0.2	0.2	< 0.1	0.2	0.2	0.2	< 0.1	0.2	0.2	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	0.1	< 0.1	< 0.1	<0.1	<0.1
Cadmium	100[d] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[d] @pH 7.5-<8.0 150[d] @pH ≥8.0	0.16	0.19	0.2	0.22	0.15	0.16	0.2	0.2	0.14	0.13	0.45	0.2
Calcium	ns	12700	9510	11100	9310	7320	7180	6430	9150	9470	9020	11000	8830
Total Chromium	60[c]	15	12	17	17.8	16	12	17	16	15	14	16.7	18.2
Cobalt	300	10.2	8.6	10.9	11.5	10.2	8.9	10.1	10.4	10.6	9.2	10.0	10.9
Copper	250[c] 50[d] @pH <5.0 100[d] @pH 5.0-<5.5 200[d] @pH 5.5-<6.0 1,500[d] @pH 6.0-<6.5 30,000[d] @pH ≥ 6.5	32	27	39.5	42.8	33.3	25	36.9	40.2	42.5	33.7	120	37.4
Iron	ns	27500	22800	28800	30100	33400	22800	26700	30400	29000	22200	28300	29000
Lead	ns/1,000[d] 150[d] @pH <5.5 250[d] @pH 5.5-<6.0 2,000[d] @pH 6.0-<6.5 40,000[d] @pH ≥ 6.5	7.9	11.7	12.5	12.2	8.8	6.6	16.2	14.6	12.5	8.1	16.9	14.8
Magnesium	ns	8800	6990	9560	7880	9580	6870	8950	7890	9580	6630	9200	7190
Manganese	ns	540	429	672	547	649	423	547	501	575	417	533	498
Mercury	40[f]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05
Molybdenum	40	0.6	0.6	0.7	0.7	0.6	0.5	0.7	0.8	0.6	0.6	0.8	0.8
Nickel	500	12.5	10.6	13.9	14.5	11.2	9.8	12.7	14.0	12.5	12.0	11.9	13.5
Phosphorus	ns	646	614	738	656	708	616	620	673	745	699	656	590
Potassium	ns	919	450	812	767	525	334	671	654	671	597	682	591
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Silver	40	0.06	0.06	0.07	0.09	0.07	< 0.05	0.07	0.06	0.1	0.05	0.29	0.06
Sodium	1200	429	497	705	779	532	398	569	582	460	487	596	479
Strontium	100,000	27.7	25.9	30.4	31.2	20.6	21.4	23.6	28.3	26	43.7	27.6	25.6
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---
Thallium	ns	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	0.09
Tin	300	0.2	0.3	0.3	0.4	0.2	0.2	0.7	0.9	0.3	0.2	0.3	0.4
Titanium	ns	598	382	591	558	466	300	471	619	584	373	478	489
Vanadium	ns	59	48	62.8	61	59	47	54.8	58	62	50	56.5	60.6
Zinc	600[b] 150[d] @pH <6.0 300[d] @pH 6.0-<6.5 1,500[d] @pH 6.5-<7.0 3,000[d] @ pH ≥ 7.0	80	54	68.8	74.3	64	51	317	80.8	87	64	87.2	64.9
Zirconium	ns	1.2	3.8	15.1	4.1	1.0	2.6	11	4.4	1.7	4.3	12.8	2.9

Notes:

Soil concentrations are in ug/g or ppm

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004).
Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5; Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5; Environment Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Parameter / Sample Date	CSR[1] Standards (CL) for Freshwater	SITE 25 - PRUDEN PROVINCIAL LAKE PARK (PG)												
		SA1				SA2				SA3				
		23-Jul-04	17-Nov-04	16-Feb-05	25-Apr-05	23-Jul-04	17-Nov-04	16-Feb-05	25-Apr-05	23-Jul-04	17-Nov-04	16-Feb-05	25-Apr-05	DUP 25-Apr-05
General														
pH (Standard Units)	ns	8.9	7.4	8.2	8.9	9.0	7.3	7.2	7.5	9.0	7.4	7.9	7.4	7.4
Anions														
Chloride	2500[f]	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Inorganic Substances														
Aluminum	ns	9770	5000	6600	6740	10600	7470	7460	9120	10400	4810	7030	7110	6510
Antimony	40	0.3	0.2	0.2	0.3	0.6	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3
Arsenic	20[1]	3.2	2.6	2.6	3.0	5.1	2.9	2.4	3.9	5.4	2.5	2.9	3.1	2.9
Barium	2,000	63.3	62.7	45	61.3	48.5	46.9	49.5	61	61.5	60	49.3	56.1	62.4
Beryllium	8	< 0.1	0.2	0.1	0.2	< 0.1	0.1	0.2	0.2	< 0.1	0.1	0.1	0.2	0.2
Bismuth	ns	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1
Cadmium	100[1]													
	2[c] @pH <7.0													
	2.5[c] @pH 7.0-<7.5		0.18				0.15				0.2		0.16	0.2
	25[c] @pH 7.5-<8.0											0.13		
	150[c] @pH ≥8.0	0.19		0.15	0.18	0.25		0.16	0.22	0.24				
Calcium	ns	4970	15600	11000	6340	6470	4830	9380	7200	5910	9130	9160	4110	5210
Total Chromium	60[1]	24	19	21.1	39	28	20	18.9	31.4	25	21	22.7	29.5	26.7
Cobalt	300	7.8	5.8	6.7	9.2	9.1	8.0	6.9	8.9	9.3	5.4	6.8	7.8	8.0
Copper	250[b]													
	90[c] @pH <5.0													
	100[c] @pH 5.0-<5.5													
	200[c] @pH 5.5-<6.0													
	1,500[c] @pH 6.0-<6.5													
	30,000[c] @pH ≥ 6.5	24.2	14.8	15.2	23	29.5	19.8	17.5	21.7	31.4	13.3	17	17.1	20.4
Iron	ns	19900	13200	17400	21600	22200	18900	17700	21200	22300	13200	17200	18900	19900
Lead	ns/1,000[a]				47.1									
	150[c] @pH <6.5													
	250[c] @pH 6.5-<6.9													
	2,000[c] @pH 6.0-<6.5													
	40,000[c] @pH ≥ 6.5	12.5	35	35.9		8.6	20.5	21.4	46.5	19.4	51.2	27.8	42.6	49.7
Magnesium	ns	5000	4740	6080	6840	6660	4980	4980	7220	5410	3700	5350	5490	5700
Manganese	ns	397	250	295	399	442	303	324	399	431	238	340	357	351
Mercury	40[1]	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05
Molybdenum	40	0.6	0.7	0.6	0.8	0.8	0.8	0.7	0.7	0.9	0.7	1.0	0.6	0.8
Nickel	500	24.6	18.5	19.4	29.4	26.1	25.8	22.9	30.7	26.6	17.8	27.4	26.3	27.0
Phosphorus	ns	523	594	464	650	577	647	396	520	584	416	534	475	579
Potassium	ns	570	258	403	367	562	219	340	381	551	305	404	407	312
Selenium	10	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5
Silver	40	0.05	0.07	<0.05	0.07	0.1	0.05	0.05	0.06	0.1	0.05	0.05	0.05	0.06
Sodium	1200	378	115	189	280	359	109	<100	202	371	< 100	191	280	210
Strontium	100,000	11.8	76.4	28.9	16	26.8	16.4	36	15.1	22.1	35.4	34.9	14	15.8
Tellurium	ns	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	< 0.1	< 0.1	---	---	---
Thallium	ns	0.07	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	0.05	0.11
Tin	300	0.3	0.2	0.3	0.2	0.8	0.1	0.2	0.3	0.3	0.2	0.3	0.2	0.3
Titanium	ns	616	221	368	755	493	361	456	750	554	272	429	564	717
Vanadium	ns	36	18	24.6	36.4	36	30	29.3	37.6	38	20	28	33.2	35.2
Zinc	600[b]													
	150[c] @pH <6.0													
	300[c] @pH 6.0-<6.5													
	1,500[c] @pH 6.5-<7.0													
	3,000[c] @pH ≥ 7.0	48	46	45.1	51.9	57	41	43.6	56.7	60	36	39.8	47.2	52.6
Zirconium	ns	1.3	2.9	12.3	5.1	1.4	3.9	12.7	4.5	1.4	2.4	13.5	4.1	4.6

Notes:

Soil concentrations are in ug/g or ppm

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 224/2004), Schedule 4; Generic Numerical Soil Standards or Schedule 6 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 26 - BRIDGE LAKE					
		SA1			SA2	SA3	
				DUP			
Parameter / Sample Date		17-Nov-04	16-Feb-05	16-Feb-05	25-Apr-05	25-Apr-05	25-Apr-05
General							
pH (Standard Units)	ns	9.8	7.3	7.1	8.9	8.3	8.0
Anions							
Chloride	2500[d]	630	< 50	< 50	105	152	57
Inorganic Substances							
Aluminium	ns	11000	13500	13900	15000	17400	20300
Antimony	40	0.4	0.7	0.8	0.9	1.0	1.3
Arsenic	20[a]	9.8	22.2	26.0	16.9	32.1	57.1
Barium	2,000	70.5	45.6	49	69.6	66.7	74.3
Beryllium	8	0.3	0.2	0.2	0.3	0.3	0.4
Bismuth	ns	< 0.1	0.1	0.1	0.1	0.2	0.2
Cadmium	100[T]						
	2[d] @pH <7.0						
	2.5[d] @pH 7.0-<7.5		0.24	0.26			
	25[d] @pH 7.5-<8.0						
	150[d] @pH ≥8.0	0.3			0.35	0.33	0.44
Calcium	ns	9220	5690	5870	6430	7260	6570
Total Chromium	60[c]	38	43.4	36.8	45.4	55.7	63.3
Cobalt	300	14.1	17.2	19.0	18.2	20.6	25.0
Copper	250[T]						
	90[d] @pH <5.0						
	100[d] @pH 5.0-<5.5						
	200[d] @pH 5.5-<6.0						
	1,500[d] @pH 6.0-<6.5						
	30,000[d] @pH ≥ 6.5	43.2	64.1	78.6	67.1	84.9	124
Iron	ns	24900	31400	32900	34000	38100	42900
Lead	ns/1,000[a]						
	150[d] @pH <5.5						
	250[d] @pH 5.5-<6.0						
	2,000[d] @pH 6.0-<6.5						
	30,000[d] @pH ≥ 6.5	10.9	12.5	12.1	16.7	14.5	11.8
Magnesium	ns	9700	11400	11500	13200	13700	14000
Manganese	ns	491	593	650	656	771	938
Mercury	40[b]	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Molybdenum	40	1.0	1.1	1.1	1.2	1.3	1.6
Nickel	500	34.7	32.5	30.7	39.9	39.6	42.0
Phosphorus	ns	937	980	662	1000	1000	1030
Potassium	ns	1650	1270	1210	1730	1310	1000
Selenium	10	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver	40	0.2	0.16	0.17	0.22	0.22	0.25
Sodium	1200	1940	676	958	1370	1290	755
Strontium	100,000	55.3	34.4	38.1	43.1	49.9	41.6
Tellurium	ns	< 0.1	---	---	---	---	---
Thallium	ns	< 0.05	0.06	0.06	0.12	0.15	0.15
Tin	300	0.2	0.2	0.2	0.3	0.3	0.3
Titanium	ns	694	730	814	1000	962	962
Vanadium	ns	57	63.3	66.1	67.7	74.3	74.3
Zinc	500[b]						
	150[d] @pH <6.0						
	300[d] @pH 6.0-<6.5						
	1,500[d] @pH 6.5-<7.0						
	3,600[d] @pH ≥ 7.0	63	65.6	70.9	83.7	100	100
Zirconium	ns	7.2	17	17.6	5.7	4	4

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

T - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (Includes am Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and pl

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 1
Soil Analytical for Metals and Chloride Ion

Sample ID	CSR[1] Standards (CL) for Freshwater	SITE 27 - MCBRIDE							
		SA1				SA2		SA3	
Parameter / Sample Date		17-Nov-04	16-Feb-05	DUP 16-Feb-05	25-Apr-05	16-Feb-05	25-Apr-05	16-Feb-05	25-Apr-05
General									
pH (Standard Units)	ns	8.1	7.1	7.0	8.2	6.7	7.8	7.8	7.9
Anions									
Chloride	2500[f]	280	76	79	84	88	65	80	309
Inorganic Substances									
Aluminum	ns	6490	7670	7830	7100	8230	8620	23900	28700
Antimony	40	0.2	0.1	0.3	0.2	0.3	0.3	0.5	0.8
Arsenic	20[d]	4.9	3.5	10.9	4.0	5.5	9.2	9.3	10.6
Barium	2,000	13.3	17.3	22.8	16.6	21.5	22.7	123	211
Beryllium	8	< 0.1	0.1	<0.1	<0.1	0.1	0.1	0.5	1
Bismuth	ns	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Cadmium	100[a] 2[d] @pH <7.0 2.5[d] @pH 7.0-<7.5 25[b] @pH 7.5-<8.0 150[c] @pH ≥8.0	0.09	0.06	0.21	0.07	0.16	0.14	0.2	0.29
Calcium	ns	51400	30500	40900	44300	40100	24000	4360	8830
Total Chromium	60[c]	10	11	16.4	12.6	15.9	14.9	46.3	55.5
Cobalt	300	6.0	7.1	9.1	8.0	6.9	9.8	17.8	26.7
Copper	250[a] 90[d] @pH <5.0 100[b] @pH 5.0-<5.5 200[b] @pH 5.5-<6.0 1,500[b] @pH 6.0-<6.5 30,000[b] @pH ≥ 6.5	17.6	15.5	23.3	17.3	20.5	20.8	35.1	57.6
Iron	ns	21200	21700	27600	22900	25100	29600	43600	52900
Lead	ns/1,900[a] 150[d] @pH <5.5 250[b] @pH 5.5-<6.0 2,000[b] @pH 6.0-<6.5 40,000[b] @pH ≥ 6.5	28.6	14.7	41.8	21.1	34.6	27	15.7	24
Magnesium	ns	5110	4840	4940	5130	4950	5200	9150	12000
Manganese	ns	466	490	566	515	504	702	698	1010
Mercury	40[a]	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
Molybdenum	40	0.4	0.6	0.8	0.5	0.5	0.6	0.7	0.8
Nickel	500	19.8	19.6	24.5	19.7	23.6	25.5	45.6	57.0
Phosphorus	ns	384	337	785	400	407	380	485	558.0
Potassium	ns	325	534	538	520	567	941	1960	2750
Selenium	10	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver	40	0.09	<0.05	0.07	<0.05	0.07	0.08	<0.05	0.06
Sodium	1200	220	<100	105	170	118	165	504	1020
Strontium	100,000	306	155	212	212	238	110	28.6	46.3
Tellurium	ns	< 0.1	---	---	---	---	---	---	---
Thallium	ns	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	0.22
Tin	300	0.1	0.2	0.2	0.1	0.3	0.1	0.4	0.6
Titanium	ns	32	70.8	39.8	65.4	66.1	82.5	567	653
Vanadium	ns	8	13.4	8	10.1	9	10	54.3	59.8
Zinc	600[b] 150[d] @pH <6.0 300[b] @pH 6.0-<6.5 1,500[b] @pH 6.5-<7.0 3,000[b] @pH ≥ 7.0	44	49.9	59.6	45.1	53.8	60	107	132
Zirconium	ns	1.2	3.2	4.8	0.9	3.5	1.1	18.9	12.7

Notes:

Soil concentrations are in ug/g or ppm.

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR - CL), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/20

noted Schedule 4: Generic Numerical Soil Standards or Schedule 5 unless otherwise noted

< 0.01 - less than the indicated detection limit

ns - no standard

a - CSR Schedule 5: Human Health Protection - Intake of contaminated soil

b - CSR Schedule 5: Environmental Protection - Toxicity to soil invertebrates and plants

c - Hexavalent Chromium referenced for conservative purposes

d - Groundwater flow to surface water used by aquatic life (freshwater)

--- - sample not analyzed

Table 2
Groundwater Analytical for Dissolved Chloride Ion

Parameter	Sample ID / Sample Date	CSR[1] AW Standards for Drinking Water	SITE 1 - HOPE 15-Feb-05	SITE 1 - HOPE 17-Apr-05	SITE 3 - PENTICTON 15-Feb-05	SITE 3 - PENTICTON 17-Apr-05	SITE 4 - GREENWOOD 15-Nov-04	SITE 4 - GREENWOOD 15-Feb-05	SITE 4 - GREENWOOD 17-Apr-05	SITE 6 - CRESTON 16-Feb-05	SITE 6 - CRESTON 17-Apr-05	SITE 8 - RADIUM 17-Nov-04	SITE 8 - RADIUM 16-Feb-05	SITE 8 - RADIUM 18-Apr-05
Anion														
Chloride		250	0.6	<0.5	4.6	4.0	3.5	4.1	1.9	24.8	36.7	8.3	11.1	17.1

Notes:

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR AW), 1997 BC Reg 375/96 (includes amendments up to BC Reg 324/2004), Schedule 6; Generic Numerical Groundwater Standards

< 0.01 - less than the indicated detection limit

Table 2
Groundwater Analytical for Dissolved Chloride Ion

Parameter	Sample ID / Sample Date	CSR[1] AW Standards for Drinking Water	SITE 9 - LtLOOET		SITE 18 - PRINCE GEORGE		SITE 21 - RADIUM / BRISCO			SITE 22 - ARMSTRONG		SITE 26 - BRIDGE LAKE		
			16-Feb-05	25-Apr-05	17-Feb-05	25-Apr-05	17-Nov-04	17-Feb-05	19-Apr-05	17-Feb-05	19-Apr-05	17-Nov-04	16-Feb-05	25-Apr-05
Anion														
Chloride		250	1.1	<0.5	151	366	< 0.5	< 0.5	0.6	9.9	10.4	583	337	77.8

Notes:

Bold - Exceeds CSR Standard

1 - Contaminated Sites Regulation (CSR AW), 1997 BC Reg 375/96 (Includes amendments up to BC Reg 324/2004), Schedule 6: Generic Numerical Groundwater Standards

< 0.01 - less than the indicated detection limit

APPENDIX F

Laboratory Certificates of Analysis

Jacques Whitford © 2005

8577 Commerce Court
Burnaby, B.C.
Canada V5A 4N5
Tel 604 444 4808
Fax 604 444 4511

03-Aug-04
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Certificate of Analysis

Reported To :

JACQUES WHITFORD

Client Code AY

4370 DOMINION ST. 5TH FLOOR
BURNABY, B.C.
V5G 4L7

Attention : LILIANA JERADE
Phone : (604) 436-3014
FAX : (604) 436-3752

Project Information :

Project ID : -
Submitted By: TONY WONGHEN

Requisition Forms :

Form 08142674 logged on 24-Jul-04 completed on 31-Jul-04
Form 08093667 logged on 24-Jul-04 completed on 31-Jul-04

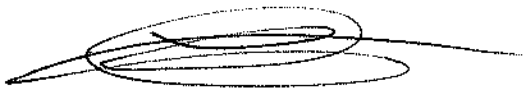
Remarks :

- All blank values are reported. Associated data are not blank corrected.
- 'MDL' = Method Detection Limit, '<' = Less than MDL, '—' = Not analyzed
- Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease
- Organic analyses are not corrected for extraction recovery standards except for Isotope Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
- All CCME and/or BC CSR results met required criteria unless otherwise stated in the report. All data on final reports are validated by technical personnel. Signature on file at laboratory. Deviations from Reference Method for the Canadian-wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method:
  - FI data - None
  - F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction
- All Groundwater samples except BTEX/VOC's or Purgeable Hydrocarbons are decanted and/or filtered prior to analysis unless otherwise mandated by regulatory agency
- This report shall not be reproduced except in full, without the written approval of the laboratory

Methods used by PSC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 20th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Liability for any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC for a period of 30 days from receipt of data or as per contract.

PSC Project Manager: Lee Card



03-Aug-04

ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037963 Client ID : SITE 2 SA1	14037964 SITE 2 SA2	14037965 SITE 2 SA3	14037966 SITE 3 SA1
PHYSICAL							
0004DI02	pH (DI 1:2)	pH units	0.1	7.6	7.5	7.0	9.8
ANIONS							
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50
PHOSPHORUS							
P--TMS20	Phosphorus Total (P)	ug/g	10	610	605	759	634
METALS TOTAL							
Al-TMS20	Aluminum	ug/g	100	13800	16200	20100	5610
Sb-TMS20	Antimony	ug/g	0.1	0.4	0.5	0.5	0.1
As-TMS20	Arsenic	ug/g	0.2	5.0	7.1	6.8	1.4
Ba-TMS20	Barium	ug/g	0.1	36.4	45.1	31.1	45.6
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.2	0.3	0.3
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.22	0.16	0.46	0.09
Ca-TMS20	Calcium	ug/g	100	5770	4210	2950	6050
Cr-TMS20	Chromium	ug/g	1	26	31	26	13
Co-TMS20	Cobalt	ug/g	0.3	8.8	9.6	9.5	4.4
Cu-TMS20	Copper	ug/g	0.5	39.1	35.4	35.5	15.0
Fe-TMS20	Iron	ug/g	100	27300	30200	37400	12300
Pb-TMS20	Lead	ug/g	0.1	27.2	24.3	15.3	40.0
Mg-TMS20	Magnesium	ug/g	100	8640	9670	9880	3280
Mn-TMS20	Manganese	ug/g	0.2	571	542	771	339
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	1.0	0.6	0.7	0.4
Ni-TMS20	Nickel	ug/g	0.8	21.6	21.2	17.4	6.9
K--TMS20	Potassium	ug/g	100	593	649	452	970
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.08	0.08	0.12	0.06
Na-TMS20	Sodium	ug/g	100	771	706	307	531
Sr-TMS20	Strontium	ug/g	0.1	24.3	29.1	13.5	69.2
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	0.4	0.3	0.3	0.2
Ti-TMS20	Titanium	ug/g	1	398	465	475	310
V--TMS20	Vanadium	ug/g	2	43	53	60	24
				Matrix : Soil	Soil	Soil	Soil
				Sampled on: 04/07/14 16:00	04/07/14 16:00	04/07/14 16:00	04/07/15 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037963 Client ID : SITE 2 SA1	14037964 SITE 2 SA2	14037965 SITE 2 SA3	14037966 SITE 3 SA1
Zn-TMS20	Zinc	ug/g	1	90	74	113	45
Zr-TMS20	Zirconium	ug/g	0.5	0.7	1.1	2.9	1.4
				Matrix : Soil	Soil	Soil	Soil
				Sampled on: 04/07/14 16:00	04/07/14 16:00	04/07/14 16:00	04/07/15 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

			Lab ID :	14037967	14037968	14037969	14037970
			Client ID :	SITE 3 SA2	SITE 3 SA3	SITE 4 SA1	SITE 4 SA2
Sparcode	**Parameter**	**Unit**	**MDL**				
PHYSICAL							
0004DI02	pH (DI 1:2)	pH units	0.1	9.7	9.0	9.1	9.0
ANIONS							
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50
PHOSPHORUS							
P--TMS20	Phosphorus Total (P)	ug/g	10	737	607	693	692
METALS TOTAL							
Al-TMS20	Aluminum	ug/g	100	6890	4850	5830	9400
Sb-TMS20	Antimony	ug/g	0.1	0.1	0.2	< 0.1	0.3
As-TMS20	Arsenic	ug/g	0.2	2.3	1.3	2.9	12.8
Ba-TMS20	Barium	ug/g	0.1	51.8	33.7	67.9	80.5
Be-TMS20	Beryllium	ug/g	0.1	0.3	0.2	0.3	0.3
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	0.2
Cd-TMS20	Cadmium	ug/g	0.05	0.06	0.08	0.11	0.51
Ca-TMS20	Calcium	ug/g	100	5310	3920	3930	3820
Cr-TMS20	Chromium	ug/g	1	12	60	13	32
Co-TMS20	Cobalt	ug/g	0.3	4.6	4.4	5.1	8.5
Cu-TMS20	Copper	ug/g	0.5	16.1	11.3	19.9	66.1
Fe-TMS20	Iron	ug/g	100	13300	11000	13200	19200
Pb-TMS20	Lead	ug/g	0.1	21.2	153	12.8	41.7
Mg-TMS20	Magnesium	ug/g	100	3970	3310	4480	6400
Mn-TMS20	Manganese	ug/g	0.2	263	219	261	549
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.5	0.3	0.3	1.1
Ni-TMS20	Nickel	ug/g	0.8	7.9	6.8	14.5	32.3
K--TMS20	Potassium	ug/g	100	975	750	717	961
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.06	0.06	< 0.05	0.21
Na-TMS20	Sodium	ug/g	100	571	451	359	516
Sr-TMS20	Strontium	ug/g	0.1	68.5	45.2	27.0	22.1
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.05	< 0.05	< 0.05	0.08
Sn-TMS20	Tin	ug/g	0.1	0.2	0.2	0.2	0.3
Ti-TMS20	Titanium	ug/g	1	282	268	176	282
V--TMS20	Vanadium	ug/g	2	28	21	22	36

Matrix :	Soil	Soil	Soil	Soil
Sampled on:	04/07/15 16:00	04/07/15 16:00	04/07/15 16:00	04/07/15 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037967 Client ID : SITE 3 SA2	14037968 SITE 3 SA3	14037969 SITE 4 SA1	14037970 SITE 4 SA2
Zn-TMS20	Zinc	ug/g	1	43	41	49	73
Zr-TMS20	Zirconium	ug/g	0.5	1.5	0.9	0.5	0.8
				Matrix : Soil	Soil	Soil	Soil
				Sampled on: 04/07/15 16:00	04/07/15 16:00	04/07/15 16:00	04/07/15 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037971 Client ID : SITE 4 SA3	14037972 SITE 4 SA1D	14037973 SITE 5 SA1	14037974 SITE 5 SA2
PHYSICAL							
0004DI02	pH (DI 1:2)	pH units	0.1	8.4	9.1	8.6	7.7
ANIONS							
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50
PHOSPHORUS							
P--TMS20	Phosphorus Total (P)	ug/g	10	772	771	1120	958
METALS TOTAL							
Al-TMS20	Aluminum	ug/g	100	8860	6820	10200	8300
Sb-TMS20	Antimony	ug/g	0.1	1.1	0.2	0.3	0.3
As-TMS20	Arsenic	ug/g	0.2	15.9	4.0	3.8	3.6
Ba-TMS20	Barium	ug/g	0.1	81.4	44.9	107	74.5
Be-TMS20	Beryllium	ug/g	0.1	0.3	0.3	0.3	0.3
Bi-TMS20	Bismuth	ug/g	0.1	0.3	< 0.1	0.8	0.2
Cd-TMS20	Cadmium	ug/g	0.05	0.50	0.16	0.31	0.33
Ca-TMS20	Calcium	ug/g	100	3750	3050	3760	3110
Cr-TMS20	Chromium	ug/g	1	28	18	25	22
Co-TMS20	Cobalt	ug/g	0.3	6.7	6.8	7.9	6.5
Cu-TMS20	Copper	ug/g	0.5	66.5	26.8	24.4	17.6
Fe-TMS20	Iron	ug/g	100	15900	17100	20600	16500
Pb-TMS20	Lead	ug/g	0.1	66.2	17.6	16.9	31.1
Mg-TMS20	Magnesium	ug/g	100	5280	5110	6010	5030
Mn-TMS20	Manganese	ug/g	0.2	360	310	274	259
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.8	0.4	0.7	0.5
Ni-TMS20	Nickel	ug/g	0.8	23.5	16.5	18.5	14.7
K--TMS20	Potassium	ug/g	100	890	1090	2450	1630
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.73	0.08	0.12	0.09
Na-TMS20	Sodium	ug/g	100	566	470	507	362
Sr-TMS20	Strontium	ug/g	0.1	25.0	19.5	42.5	31.1
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.06	0.05	0.13	0.11
Sn-TMS20	Tin	ug/g	0.1	0.8	0.3	0.3	0.4
Ti-TMS20	Titanium	ug/g	1	313	301	573	424
V--TMS20	Vanadium	ug/g	2	27	31	41	31
				Matrix : Soil	Soil	Soil	Soil
				Sampled on: 04/07/15 16:00	04/07/15 16:00	04/07/15 16:00	04/07/15 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037971 Client ID : SITE 4 SA3	14037972 SITE 4 SA1D	14037973 SITE 5 SA1	14037974 SITE 5 SA2
Zn-TMS20	Zinc	ug/g	1	96	52	63	73
Zr-TMS20	Zirconium	ug/g	0.5	0.9	0.7	0.7	0.6
			Matrix :	Soil	Soil	Soil	Soil
			Sampled on:	04/07/15 16:00	04/07/15 16:00	04/07/15 16:00	04/07/15 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037975 Client ID : SITE 5 SA3	14037976 SITE 6 SA1	14037977 SITE 6 SA2	14037978 SITE 6 SA3
PHYSICAL							
0004DI02	pH (DI 1:2)	pH units	0.1	7.7	7.6	7.4	7.5
ANIONS							
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50
PHOSPHORUS							
P--TMS20	Phosphorus Total (P)	ug/g	10	867	368	340	333
METALS TOTAL							
Al-TMS20	Aluminum	ug/g	100	6050	8350	8050	8010
Sb-TMS20	Antimony	ug/g	0.1	0.3	0.4	1.9	0.3
As-TMS20	Arsenic	ug/g	0.2	2.1	5.4	6.6	5.6
Ba-TMS20	Barium	ug/g	0.1	58.7	66.1	60.6	59.0
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.3	0.3	0.3
Bi-TMS20	Bismuth	ug/g	0.1	0.1	0.3	0.3	0.3
Cd-TMS20	Cadmium	ug/g	0.05	0.30	0.17	0.14	0.16
Ca-TMS20	Calcium	ug/g	100	2360	4340	2900	3430
Cr-TMS20	Chromium	ug/g	1	16	37	13	19
Co-TMS20	Cobalt	ug/g	0.3	5.0	7.5	7.1	7.9
Cu-TMS20	Copper	ug/g	0.5	14.1	22.6	24.5	20.0
Fe-TMS20	Iron	ug/g	100	13400	20800	20900	20300
Pb-TMS20	Lead	ug/g	0.1	35.1	120	30.8	49.2
Mg-TMS20	Magnesium	ug/g	100	3890	6710	5420	5800
Mn-TMS20	Manganese	ug/g	0.2	223	379	307	258
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.5	0.5	0.4	0.4
Ni-TMS20	Nickel	ug/g	0.8	11.6	11.4	13.0	10.4
K--TMS20	Potassium	ug/g	100	1110	3050	2220	2660
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.08	0.05	0.25	0.07
Na-TMS20	Sodium	ug/g	100	265	110	< 100	110
Sr-TMS20	Strontium	ug/g	0.1	19.7	9.1	5.6	6.6
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.08	0.18	0.13	0.36
Sn-TMS20	Tin	ug/g	0.1	0.3	0.4	0.3	0.3
Ti-TMS20	Titanium	ug/g	1	279	399	316	368
V--TMS20	Vanadium	ug/g	2	25	19	19	18
				Matrix : Soil	Soil	Soil	Soil
				Sampled on: 04/07/15 16:00	04/07/16 16:00	04/07/16 16:00	04/07/16 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037975 Client ID : SITE 5 SA3	14037976 SITE 6 SA1	14037977 SITE 6 SA2	14037978 SITE 6 SA3
Zn-TMS20	Zinc	ug/g	1	65	64	60	53
Zr-TMS20	Zirconium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
			Matrix :	Soil	Soil	Soil	Soil
			Sampled on:	04/07/15 16:00	04/07/16 16:00	04/07/16 16:00	04/07/16 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037979 Client ID : SITE 7 SA1	14037980 SITE 7 SA2	14037981 SITE 7 SA3
PHYSICAL						
0004DI02	pH (DI 1:2)	pH units	0.1	8.3	9.7	9.5
ANIONS						
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50
PHOSPHORUS						
P--TMS20	Phosphorus Total (P)	ug/g	10	427	355	400
METALS TOTAL						
Al-TMS20	Aluminum	ug/g	100	6310	3900	4480
Sb-TMS20	Antimony	ug/g	0.1	0.4	0.3	0.3
As-TMS20	Arsenic	ug/g	0.2	4.9	3.4	3.4
Ba-TMS20	Barium	ug/g	0.1	47.1	53.9	34.3
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.1	0.2
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.16	0.16	0.16
Ca-TMS20	Calcium	ug/g	100	46300	65100	71900
Cr-TMS20	Chromium	ug/g	1	9	6	6
Co-TMS20	Cobalt	ug/g	0.3	5.7	4.1	4.5
Cu-TMS20	Copper	ug/g	0.5	13.9	11.0	13.6
Fe-TMS20	Iron	ug/g	100	14400	12200	13600
Pb-TMS20	Lead	ug/g	0.1	18.5	55.9	48.2
Mg-TMS20	Magnesium	ug/g	100	15400	22400	23900
Mn-TMS20	Manganese	ug/g	0.2	398	242	328
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.8	0.4	0.7
Ni-TMS20	Nickel	ug/g	0.8	10.1	10.0	10.6
K--TMS20	Potassium	ug/g	100	628	490	460
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	< 0.05
Na-TMS20	Sodium	ug/g	100	< 100	138	116
Sr-TMS20	Strontium	ug/g	0.1	50.8	75.7	78.6
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.07	< 0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	0.2	0.2	0.1
Ti-TMS20	Titanium	ug/g	1	60	45	43
V--TMS20	Vanadium	ug/g	2	9	6	7

Matrix :	Soil	Soil	Soil
Sampled on:	04/07/16 16:00	04/07/16 16:00	04/07/16 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : -

Sparcode	Parameter	Unit	MDL	Lab ID : 14037979 Client ID : SITE 7 SA1	14037980 SITE 7 SA2	14037981 SITE 7 SA3
Zn-TMS20	Zinc	ug/g	1	53	41	37
Zr-TMS20	Zirconium	ug/g	0.5	0.6	0.6	0.6
			Matrix :	Soil	Soil	Soil
			Sampled on:	04/07/16 16:00	04/07/16 16:00	04/07/16 16:00

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DUPLICATE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
Silver	SITE 6 SA2	14037977	0.25	0.27	0.05	ug/g	-7.69
Aluminum	SITE 6 SA2	14037977	8050	8270	100	ug/g	-2.70
Arsenic	SITE 6 SA2	14037977	6.6	6.6	0.2	ug/g	0.00
Barium	SITE 6 SA2	14037977	60.6	63.3	0.1	ug/g	-4.36
Beryllium	SITE 6 SA2	14037977	0.3	0.3	0.1	ug/g	0.00
Bismuth	SITE 6 SA2	14037977	0.3	0.4	0.1	ug/g	-28.57
Calcium	SITE 6 SA2	14037977	2900	3080	100	ug/g	-6.02
Cadmium	SITE 6 SA2	14037977	0.14	0.15	0.05	ug/g	-6.90
Cobalt	SITE 6 SA2	14037977	7.1	7.4	0.3	ug/g	-4.14
Chromium	SITE 6 SA2	14037977	13	14	1	ug/g	-7.41
Copper	SITE 6 SA2	14037977	24.5	26.5	0.5	ug/g	-7.84
Iron	SITE 6 SA2	14037977	20900	22800	100	ug/g	-8.70
Potassium	SITE 6 SA2	14037977	2220	2360	100	ug/g	-6.11
Magnesium	SITE 6 SA2	14037977	5420	5780	100	ug/g	-6.43
Manganese	SITE 6 SA2	14037977	307	328	0.2	ug/g	-6.61
Molybdenum	SITE 6 SA2	14037977	0.4	0.4	0.1	ug/g	0.00
Sodium	SITE 6 SA2	14037977	< 100	< 100	100	ug/g	0.00
Nickel	SITE 6 SA2	14037977	13.0	13.2	0.8	ug/g	-1.53
Phosphorus Total (P)	SITE 6 SA2	14037977	340	350	10	ug/g	-2.90
Lead	SITE 6 SA2	14037977	30.8	32.3	0.1	ug/g	-4.75
Antimony	SITE 6 SA2	14037977	1.9	1.9	0.1	ug/g	0.00
Selenium	SITE 6 SA2	14037977	< 0.5	< 0.5	0.5	ug/g	0.00
Tin	SITE 6 SA2	14037977	0.3	0.3	0.1	ug/g	0.00
Strontium	SITE 6 SA2	14037977	5.6	5.9	0.1	ug/g	-5.22
Tellurium	SITE 6 SA2	14037977	< 0.1	< 0.1	0.1	ug/g	0.00
Titanium	SITE 6 SA2	14037977	316	328	1	ug/g	-3.73
Thallium	SITE 6 SA2	14037977	0.13	0.13	0.05	ug/g	0.00
Vanadium	SITE 6 SA2	14037977	19	18	2	ug/g	5.41
Zinc	SITE 6 SA2	14037977	60	61	1	ug/g	-1.65
Zirconium	SITE 6 SA2	14037977	< 0.5	< 0.5	0.5	ug/g	0.00
Mercury	SITE 6 SA2	14037977	< 0.05	< 0.05	0.05	ug/g	0.00
pH (DI 1:2)	SITE 7 SA2	14037980	9.7	9.8	0.1	pH units	-1.03
Chloride Dissolved	SITE 7 SA3	14037981	< 50	< 50	50	ug/g	0.00

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SPIKE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Arsenic	Blank Spike. Batch :	44201916	< 0.2	55.6	50	ug/g	111
Cadmium	Blank Spike. Batch :	44201916	0.07	51.7	50	ug/g	103
Cobalt	Blank Spike. Batch :	44201916	< 0.3	56.4	50	ug/g	113
Chromium	Blank Spike. Batch :	44201916	< 1	55	50	ug/g	110
Copper	Blank Spike. Batch :	44201916	< 0.5	58.2	50	ug/g	116
Manganese	Blank Spike. Batch :	44201916	< 0.2	55.4	50	ug/g	111
Lead	Blank Spike. Batch :	44201916	< 0.1	52.3	50	ug/g	104
Selenium	Blank Spike. Batch :	44201916	< 0.5	56.4	50	ug/g	113
Zinc	Blank Spike. Batch :	44201916	< 1	59	50	ug/g	117
pH (DI 1:2)	Blank Spike. Batch :	44402911	< 0.1	6.0	6	pH units	100
Mercury	Blank Spike. Batch :	44201916	< 0.05	0.83	1	ug/g	82
pH (DI 1:2)	Blank Spike. Batch :	44402936	< 0.1	6.0	6	pH units	100
Arsenic	SITE 6 SA2	14037977	6.6	59.3	50	ug/g	105
Cadmium	SITE 6 SA2	14037977	0.14	51.5	50	ug/g	103
Cobalt	SITE 6 SA2	14037977	7.1	62.5	50	ug/g	111
Chromium	SITE 6 SA2	14037977	13	63	50	ug/g	99
Copper	SITE 6 SA2	14037977	24.5	79.1	50	ug/g	109
Lead	SITE 6 SA2	14037977	30.8	92.4	50	ug/g	123
Selenium	SITE 6 SA2	14037977	< 0.5	54.4	50	ug/g	110
Zinc	SITE 6 SA2	14037977	60	113	50	ug/g	107
Mercury	SITE 6 SA2	14037977	< 0.05	1.01	1	ug/g	101
Chloride Dissolved	SITE 7 SA3	14037981	< 50	4400	5000	ug/g	88

ANALYSIS DATES

	Lab ID :	14037963	14037964	14037965	14037966
	Client ID:	SITE 2 SA1	SITE 2 SA2	SITE 2 SA3	SITE 3 SA1
0004DI02	pH (DI 1:2)	27-JUL-2004	27-JUL-2004	27-JUL-2004	27-JUL-2004
110415SW	Chloride Dissolved	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
Hg-TMS20	Mercury	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
ICPMS200	Soil Metals by ICP-MS	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	14-JUL-2004	14-JUL-2004	14-JUL-2004	15-JUL-2004

	Lab ID :	14037967	14037968	14037969	14037970
	Client ID:	SITE 3 SA2	SITE 3 SA3	SITE 4 SA1	SITE 4 SA2
0004DI02	pH (DI 1:2)	27-JUL-2004	27-JUL-2004	27-JUL-2004	27-JUL-2004
110415SW	Chloride Dissolved	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
Hg-TMS20	Mercury	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
ICPMS200	Soil Metals by ICP-MS	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-JUL-2004	15-JUL-2004	15-JUL-2004	15-JUL-2004

	Lab ID :	14037971	14037972	14037973	14037974
	Client ID:	SITE 4 SA3	SITE 4 SA1D	SITE 5 SA1	SITE 5 SA2
0004DI02	pH (DI 1:2)	27-JUL-2004	27-JUL-2004	27-JUL-2004	28-JUL-2004
110415SW	Chloride Dissolved	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
Hg-TMS20	Mercury	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
ICPMS200	Soil Metals by ICP-MS	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-JUL-2004	15-JUL-2004	15-JUL-2004	15-JUL-2004

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ANALYSIS DATES

	Lab ID : Client ID:	14037975 SITE 5 SA3	14037976 SITE 6 SA1	14037977 SITE 6 SA2	14037978 SITE 6 SA3
0004DI02	pH (DI 1:2)	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
110415SW	Chloride Dissolved	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
Hg-TMS20	Mercury	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
ICPMS200	Soil Metals by ICP-MS	28-JUL-2004	28-JUL-2004	28-JUL-2004	28-JUL-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-JUL-2004	16-JUL-2004	16-JUL-2004	16-JUL-2004

	Lab ID : Client ID:	14037979 SITE 7 SA1	14037980 SITE 7 SA2	14037981 SITE 7 SA3
0004DI02	pH (DI 1:2)	28-JUL-2004	28-JUL-2004	28-JUL-2004
110415SW	Chloride Dissolved	29-JUL-2004	29-JUL-2004	29-JUL-2004
Hg-TMS20	Mercury	28-JUL-2004	28-JUL-2004	28-JUL-2004
ICPMS200	Soil Metals by ICP-MS	28-JUL-2004	28-JUL-2004	28-JUL-2004
	Matrix:	Soil	Soil	Soil
	Sampled on:	16-JUL-2004	16-JUL-2004	16-JUL-2004

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BATCH NUMBERS

	Lab ID :	14037963	14037964	14037965	14037966
	Client ID:	SITE 2 SA1	SITE 2 SA2	SITE 2 SA3	SITE 3 SA1
0004DI02	pH (DI 1:2)	44402911	44402911	44402911	44402911
110415SW	Chloride Dissolved	44102383	44102383	44102383	44102383
Hg-TMS20	Mercury	44201916	44201916	44201916	44201916
ICPMS200	Soil Metals by ICP-MS	44201916	44201916	44201916	44201916
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	14-JUL-2004	14-JUL-2004	14-JUL-2004	15-JUL-2004

	Lab ID :	14037967	14037968	14037969	14037970
	Client ID:	SITE 3 SA2	SITE 3 SA3	SITE 4 SA1	SITE 4 SA2
0004DI02	pH (DI 1:2)	44402911	44402911	44402911	44402911
110415SW	Chloride Dissolved	44102383	44102383	44102383	44102383
Hg-TMS20	Mercury	44201916	44201916	44201916	44201916
ICPMS200	Soil Metals by ICP-MS	44201916	44201916	44201916	44201916
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-JUL-2004	15-JUL-2004	15-JUL-2004	15-JUL-2004

	Lab ID :	14037971	14037972	14037973	14037974
	Client ID:	SITE 4 SA3	SITE 4 SA1D	SITE 5 SA1	SITE 5 SA2
0004DI02	pH (DI 1:2)	44402911	44402911	44402911	44402936
110415SW	Chloride Dissolved	44102383	44102383	44102383	44102383
Hg-TMS20	Mercury	44201916	44201916	44201916	44201916
ICPMS200	Soil Metals by ICP-MS	44201916	44201916	44201916	44201916
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-JUL-2004	15-JUL-2004	15-JUL-2004	15-JUL-2004

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BATCH NUMBERS

	Lab ID :	14037975	14037976	14037977	14037978
	Client ID:	SITE 5 SA3	SITE 6 SA1	SITE 6 SA2	SITE 6 SA3
0004DI02	pH (DI 1:2)	44402936	44402936	44402936	44402936
110415SW	Chloride Dissolved	44102383	44102383	44102383	44102383
Hg-TMS20	Mercury	44201916	44201916	44201916	44201916
ICPMS200	Soil Metals by ICP-MS	44201916	44201916	44201916	44201916
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-JUL-2004	16-JUL-2004	16-JUL-2004	16-JUL-2004

	Lab ID :	14037979	14037980	14037981
	Client ID:	SITE 7 SA1	SITE 7 SA2	SITE 7 SA3
0004DI02	pH (DI 1:2)	44402936	44402936	44402936
110415SW	Chloride Dissolved	44102383	44102383	44102383
Hg-TMS20	Mercury	44201916	44201916	44201916
ICPMS200	Soil Metals by ICP-MS	44201916	44201916	44201916
	Matrix:	Soil	Soil	Soil
	Sampled on:	16-JUL-2004	16-JUL-2004	16-JUL-2004

03-Aug-04
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BLANK SUMMARY

All method blanks were less than MDL, except the following:

Parameter	Batch	Sparcode	Blank Conc.	MDL	Unit
Cadmium	44201916	Cd-TMS20	0.07	0.05	ug/g

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: TWEC Date: July 24/07 Initial: MAT C of C #: 8142674

Sample ID	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Item #

1. [ ] Custody Seal not Intact
2. [ ] Temp > 10 degrees C
3. [ ] Broken Bottle in Transit
4. [ ] No C of C
5. [ ] C of C information Incomplete
6. [ ] C of C not signed/dated by consultant
7. [ ] Non-current C of C
8. [ ] Bottles listed on C of C, but not in shipment
9. [ ] Bottles in shipment, but not on C of C
10. [ ] Analysis Requirements absent/not clear
11. [ ] Labelling Issue (missing/and/or incorrect)
12. [ ] Samples received >5 days after sampling
13. [ ] Samples received after hold time
14. [ ] Wrong Bottle(s) used
15. [ ] Incorrect Preservation or Headspace present
16. [ ] Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. [ ] Incorrect Task Order # provided to lab

[ ] Anomalies _____

[ ] Insufficient Sample (lab use only)

o Poured off anions

Comments: _____

	Temperature			Average
Cooler #1	8	8	11	9
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWR Date: July 24/07 Initial: TAT C of C #: 8C93667

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	—																						
2	—																						
3	—																						
4	—																						
5	—																						
6	—																						
7	—																						
8																							
9																							
10																							
11																							
12																							

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☐ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☐ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____

☐ Insufficient Sample (lab use only)

o Poured off anions

Comments: _____

	Temperature			Average
Cooler #1	8	8	11	9
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE ____ OF ____

ANALYSIS REQUEST 8142674

COMPANY NAME: Jacques Whitford
COMPANY ADDRESS: AY
PH. #: 436-7014
E-mail: Ljerade@jacqueswhitford.com
FAX #: 436-3752
CLIENT PROJECT ID: (#) To follow
SAMPLER NAME (PRINT): Tony Wonghen
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	chlorides	metals
1	Site 2 Sa 1	37963			✓		1	July 14/04			✓	✓
2	2	37964			✓		1	↓			✓	✓
3	3	37965			✓		1	↓			✓	✓
4	Site 3 Sa 1	37966			✓		1	July 15/04			✓	✓
5	2	37967			✓		1	↓			✓	✓
6	3	37968			✓		1	↓			✓	✓
7	Site 4 Sa 1	37969			✓		1	July 15			✓	✓
8	2	37970			✓		1	↓			✓	✓
9	3	37971			✓		1	↓			✓	✓
10	I.D.	37972			✓		1	↓			✓	✓
11	Site 5 Sa 1	37973			✓		1	July 15/04			✓	✓
12	2	37974			✓		1	↓			✓	✓

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☐
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS ____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME ☐ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS
JARS USED

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 8, 8, 11
DUE DATE: July 30/04 → Aug. 3/04
LOG IN CHECK

RELINQUISHED BY SAMPLER: Tony/TW	DATE DD/MM/YY July 23/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE DD/MM/YY	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE DD/MM/YY July 23/04	TIME 15:15	RECEIVED BY LABORATORY: AR

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

ANALYTICAL SERVICES

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8093667.

COMPANY NAME: Jacques Whitford.
PH. #: 436 - 3014
FAX #: 436 - 3752
COMPANY ADDRESS: AY
CLIENT PROJECT ID: (#) To follow
SAMPLER NAME (PRINT): Tony Wonghen.
PROJECT MANAGER: Liliana Jerade.

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Chlorides	Metals
1	Site 5 Sa 3	37975					1	July 15/04				
2	Site 6 Sa 1	37976					1	July 16/04				
3	2	37977					1					
4	3	37978					1					
5	Site 7 Sa 1	37979					1	July 16/04				
6	2	37980					1					
7	3	37981					1					
8												
9												
10												
11												
12												

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
*some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☐
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME ☐ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS
JARS USED

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 8, 8, 11
LAB INFORMATION: July 30/04 Aug. 3/04

RELINQUISHED BY SAMPLER: Tony / Ty	DATE July 23/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE July 23/04	TIME 15:15	RECEIVED BY LABORATORY: AR

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

8577 Commerce Court
Burnaby, B.C.
Canada V5A 4N5
Tel 604 444 4808
Fax 604 444 4511

Certificate of Analysis

Reported To :

JACQUES WHITFORD Client Code AY

4370 DOMINION ST. 5TH FLOOR
BURNABY, B.C.
V5G 4L7

Attention : LILIANA JERADE
Phone : (604) 436-3014
FAX : (604) 436-3752

Project Information :

Project ID : BCV61843
Submitted By: LILIANA JERADE

Requisition Forms :

Form 08098641 logged on 29-Jul-04 completed on 03-Aug-04
Form 08098640 logged on 29-Jul-04 completed on 03-Aug-04
Form 08098500 logged on 29-Jul-04 completed on 03-Aug-04
Form 08098639 logged on 29-Jul-04 completed on 03-Aug-04
Form 08098964 logged on 29-Jul-04 completed on 03-Aug-04

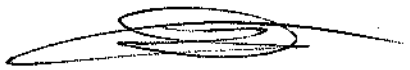
Remarks :

- All blank values are reported. Associated data are not blank corrected.
- 'MDL' = Method Detection Limit, '<' = Less than MDL, '---' = Not analyzed
- Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease
- Organic analyses are not corrected for extraction recovery standards except for Isotope Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
- All CCME and/or BC CSR results met required criteria unless otherwise stated in the report. All data on final reports are validated by technical personnel. Signature on file at laboratory. Deviations from Reference Method for the Canadian-wide Standard for Petroleum Hydrocarbons in Soil - Tier I Method:
  - F1 data - None
  - F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction
- All Groundwater samples except BTEX/VOC's or Purgeable Hydrocarbons are decanted and/or filtered prior to analysis unless otherwise mandated by regulatory agency
- This report shall not be reproduced except in full, without the written approval of the laboratory

Methods used by Philip are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 20th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Liability for any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Philip for a period of 30 days from receipt of data or as per contract.

PHILIP Project Manager: Lee Card



03-Aug-04

ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038882 Client ID : SITE25	14038883 SITE25	14038884 SITE25	14038885 SITE17	14038886 SITE17	14038887 SITE17
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	8.9	9.0	9.0	9.1	9.1	8.4
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	523	577	584	509	790	643
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	9770	10600	10400	8770	8750	9570
Sb-TMS20	Antimony	ug/g	0.1	0.3	0.6	0.7	0.4	0.9	1.5
As-TMS20	Arsenic	ug/g	0.2	3.2	5.1	5.4	3.6	6.1	8.4
Ba-TMS20	Barium	ug/g	0.1	63.3	48.5	61.5	54.7	46.2	68.8
Be-TMS20	Beryllium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.19	0.25	0.24	0.22	0.53	0.58
Ca-TMS20	Calcium	ug/g	100	4970	6470	5910	7680	16500	20900
Cr-TMS20	Chromium	ug/g	1	24	28	25	24	25	27
Co-TMS20	Cobalt	ug/g	0.3	7.8	9.1	9.3	7.3	8.7	9.8
Cu-TMS20	Copper	ug/g	0.5	24.2	29.5	31.4	22.1	33.8	37.8
Fe-TMS20	Iron	ug/g	100	19300	22200	22300	17900	21300	22700
Pb-TMS20	Lead	ug/g	0.1	12.5	8.6	10.4	8.2	9.0	14.7
Mg-TMS20	Magnesium	ug/g	100	6000	6660	6410	5360	7510	7750
Mn-TMS20	Manganese	ug/g	0.2	397	442	431	370	412	451
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	0.12
Mo-TMS20	Molybdenum	ug/g	0.1	0.6	0.8	0.9	0.7	1.4	1.5
Ni-TMS20	Nickel	ug/g	0.8	24.6	26.1	26.6	24.5	28.4	33.4
K--TMS20	Potassium	ug/g	100	570	562	551	485	494	622
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.06	0.10	0.10	0.08	0.14	0.14
Na-TMS20	Sodium	ug/g	100	379	359	371	279	747	291
Sr-TMS20	Strontium	ug/g	0.1	11.8	28.8	22.1	33.5	74.3	79.2
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.07	< 0.05	< 0.05	< 0.05	0.08	0.13
Sn-TMS20	Tin	ug/g	0.1	0.3	0.8	0.3	0.2	0.2	0.3
Ti-TMS20	Titanium	ug/g	1	615	493	554	481	485	522
V--TMS20	Vanadium	ug/g	2	36	36	38	39	49	51
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/07/23	04/07/23	04/07/23	04/07/22	04/07/22	04/07/22

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038882 Client ID : SITE25	14038883 SITE25	14038884 SITE25	14038885 SITE17	14038886 SITE17	14038887 SITE17
Zn-TMS20	Zinc	ug/g	1	48	57	60	57	82	89
Zr-TMS20	Zirconium	ug/g	0.5	1.3	1.4	1.4	1.1	1.7	1.5
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/07/23	04/07/23	04/07/23	04/07/22	04/07/22	04/07/22

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038888 / Client ID : SITE18	14038889 / SITE18	14038890 / SITE18	14038891 / SITE8	14038892 / SITE8	14038893 / SITE8
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	8.0	9.1	8.3	9.9	9.5	8.9
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	64	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	557	646	509	385	440	515
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	8470	9500	7280	5460	5760	5310
Sb-TMS20	Antimony	ug/g	0.1	0.3	0.2	0.3	0.5	0.6	0.6
As-TMS20	Arsenic	ug/g	0.2	2.0	2.1	2.3	16.1	9.3	19.9
Ba-TMS20	Barium	ug/g	0.1	49.1	47.1	62.1	68.4	86.3	107
Be-TMS20	Beryllium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.2
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.14	0.16	0.14	0.08	0.21	0.07
Ca-TMS20	Calcium	ug/g	100	9040	9030	4690	134000	158000	161000
Cr-TMS20	Chromium	ug/g	1	20	23	31	14	30	11
Co-TMS20	Cobalt	ug/g	0.3	7.7	8.4	7.3	5.4	6.2	5.2
Cu-TMS20	Copper	ug/g	0.5	20.7	21.6	18.3	9.9	9.7	9.1
Fe-TMS20	Iron	ug/g	100	17100	18200	17500	13000	12800	12500
Pb-TMS20	Lead	ug/g	0.1	23.6	22.9	71.2	48.2	125	19.2
Mg-TMS20	Magnesium	ug/g	100	5470	5640	4960	26700	27800	24600
Mn-TMS20	Manganese	ug/g	0.2	335	334	333	346	343	348
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.06	0.06	0.07
Mo-TMS20	Molybdenum	ug/g	0.1	0.7	0.7	0.6	0.4	0.4	0.3
Ni-TMS20	Nickel	ug/g	0.8	22.7	25.0	24.3	15.5	16.4	16.8
K--TMS20	Potassium	ug/g	100	276	285	391	531	575	557
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.06	0.06	< 0.05	0.08	0.41	< 0.05
Na-TMS20	Sodium	ug/g	100	< 100	214	193	267	339	< 100
Sr-TMS20	Strontium	ug/g	0.1	17.5	32.6	18.4	212	325	243
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	0.13	0.05	< 0.05	< 0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	0.2	0.2	0.3	0.1	0.2	0.1
Ti-TMS20	Titanium	ug/g	1	602	606	574	35	41	34
V--TMS20	Vanadium	ug/g	2	33	36	33	8	8	8
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/07/25	04/07/25	04/07/25	04/07/23	04/07/23	04/07/23

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14038888	14038889	14038890	14038891	14038892	14038893
			Client ID :	SITE18	SITE18	SITE18	SITE8	SITE8	SITE8
Sparcode	**Parameter**	**Unit**	**MDL**						
Zn-TMS20	Zinc	ug/g	1	45	44	49	31	38	33
Zr-TMS20	Zirconium	ug/g	0.5	1.6	1.8	2.0	0.8	0.8	0.7
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/07/25	04/07/25	04/07/25	04/07/23	04/07/23	04/07/23

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14038895	14038896	14038897	14038898	14038899	14038900
	Client ID :	SITE19 SA1	SITE19 SA2	SITE19 SA3	SITE20 SA1	SITE20 SA2	SITE20 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.4	9.1	9.0	9.4	8.6	8.4
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	323	410	332	453	454	424
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	4370	5050	4490	7970	7780	7740
Sb-TMS20	Antimony	ug/g	0.1	< 0.1	< 0.1	< 0.1	0.2	0.2	0.2
As-TMS20	Arsenic	ug/g	0.2	< 0.2	< 0.2	< 0.2	9.2	8.3	8.0
Ba-TMS20	Barium	ug/g	0.1	31.8	42.8	49.1	46.9	43.3	45.4
Be-TMS20	Beryllium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	0.2	0.2	0.2
Cd-TMS20	Cadmium	ug/g	0.05	0.09	0.11	0.08	0.19	0.21	0.22
Ca-TMS20	Calcium	ug/g	100	4760	5690	10900	20200	19800	18400
Cr-TMS20	Chromium	ug/g	1	14	13	12	18	18	17
Co-TMS20	Cobalt	ug/g	0.3	3.8	3.5	3.5	8.8	9.5	9.2
Cu-TMS20	Copper	ug/g	0.5	11.2	10.7	10.7	19.6	26.2	23.1
Fe-TMS20	Iron	ug/g	100	9480	9650	8910	22800	22300	24500
Pb-TMS20	Lead	ug/g	0.1	48.9	23.9	21.4	25.5	24.1	25.3
Mg-TMS20	Magnesium	ug/g	100	2440	2960	2820	6970	7190	6930
Mn-TMS20	Manganese	ug/g	0.2	136	148	141	387	376	411
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.3	0.3	0.3	0.8	1.0	0.9
Ni-TMS20	Nickel	ug/g	0.8	8.0	10.0	7.1	22.7	26.8	24.0
K--TMS20	Potassium	ug/g	100	889	1150	1120	1080	1080	1230
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.07	0.09	0.08
Na-TMS20	Sodium	ug/g	100	170	167	154	180	106	< 100
Sr-TMS20	Strontium	ug/g	0.1	20.4	26.1	45.9	68.6	62.5	56.3
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	0.05	< 0.05	0.05	0.10	0.10
Sn-TMS20	Tin	ug/g	0.1	0.2	0.3	0.2	0.2	0.2	0.3
Ti-TMS20	Titanium	ug/g	1	260	304	302	198	214	212
V--TMS20	Vanadium	ug/g	2	13	15	13	14	14	14
	Matrix :			Soil	Soil	Soil	Soil	Soil	Soil
	Sampled on:			04/07/25	04/07/25	04/07/25	04/07/25	04/07/25	04/07/25

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14038895	14038896	14038897	14038898	14038899	14038900
			Client ID :	SITE19 SA1	SITE19 SA2	SITE19 SA3	SITE20 SA1	SITE20 SA2	SITE20 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
Zn-TMS20	Zinc	ug/g	1	35	32	31	62	65	60
Zr-TMS20	Zirconium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/07/25	04/07/25	04/07/25	04/07/25	04/07/25	04/07/25

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14038901	14038902	14038903	14038904	14038905	14038906
	Client ID :	SITE21 SA1	SITE21 SA2	SITE21 SA3	SITE22 SA1	SITE22 SA2	SITE22 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.4	8.8	8.6	8.8	9.4	9.4
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	355	364	326	584	580	555
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	4640	2650	4050	7370	6220	6630
Sb-TMS20	Antimony	ug/g	0.1	0.2	0.1	0.2	0.2	0.4	0.2
As-TMS20	Arsenic	ug/g	0.2	3.1	0.9	1.6	0.9	0.4	1.3
Ba-TMS20	Barium	ug/g	0.1	171	232	150	44.7	42.4	49.6
Be-TMS20	Beryllium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.20	0.08	0.10	0.21	0.28	0.23
Ca-TMS20	Calcium	ug/g	100	111000	125000	99000	3060	6270	4710
Cr-TMS20	Chromium	ug/g	1	10	6	9	19	18	20
Co-TMS20	Cobalt	ug/g	0.3	4.2	2.7	3.6	5.2	4.7	4.8
Cu-TMS20	Copper	ug/g	0.5	9.1	5.5	7.2	20.4	18.7	15.8
Fe-TMS20	Iron	ug/g	100	12900	7480	10900	14100	13400	12200
Pb-TMS20	Lead	ug/g	0.1	25.9	12.3	17.6	89.8	68.8	117
Mg-TMS20	Magnesium	ug/g	100	27700	31100	20500	4260	4330	3640
Mn-TMS20	Manganese	ug/g	0.2	240	203	186	258	221	221
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.7	0.9	0.5	0.6	0.6	0.5
Ni-TMS20	Nickel	ug/g	0.8	15.9	12.8	13.9	14.6	13.0	14.2
K--TMS20	Potassium	ug/g	100	323	442	294	1320	1230	1240
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.07	0.05	0.07
Na-TMS20	Sodium	ug/g	100	101	< 100	< 100	450	360	395
Sr-TMS20	Strontium	ug/g	0.1	110	126	137	19.1	33.1	28.4
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.07	0.06	0.05
Sn-TMS20	Tin	ug/g	0.1	0.2	< 0.1	0.1	0.4	2.0	0.6
Ti-TMS20	Titanium	ug/g	1	20	15	16	416	366	373
V--TMS20	Vanadium	ug/g	2	7	6	6	25	24	22
	Matrix :			Soil	Soil	Soil	Soil	Soil	Soil
	Sampled on:			04/07/25	04/07/25	04/07/25	04/07/25	04/07/25	04/07/25

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038901 Client ID : SITE21 SA1	14038902 SITE21 SA2	14038903 SITE21 SA3	14038904 SITE22 SA1	14038905 SITE22 SA2	14038906 SITE22 SA3
Zn-TMS20	Zinc	ug/g	1	50	23	39	71	67	57
Zr-TMS20	Zirconium	ug/g	0.5	< 0.5	< 0.5	< 0.5	0.9	0.7	0.9
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/07/25	04/07/25	04/07/25	04/07/25	04/07/25	04/07/25

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14038907	14038908	14038909	14038910	14038911	14038912
			Client ID :	SITE16 SA1	SITE16 SA2	SITE16 SA3	SITE15 SA1	SITE15 SA2	SITE15 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	8.6	9.6	8.9	9.8	9.1	9.1
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	538	347	459	808	812	884
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	7090	4430	6810	9450	9290	11000
Sb-TMS20	Antimony	ug/g	0.1	0.4	0.8	0.5	0.2	0.3	0.3
As-TMS20	Arsenic	ug/g	0.2	3.4	4.6	3.4	1.9	1.8	2.9
Ba-TMS20	Barium	ug/g	0.1	57.5	49.0	82.5	64.6	81.9	100
Be-TMS20	Beryllium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.21	0.36	0.31	0.15	0.19	0.32
Ca-TMS20	Calcium	ug/g	100	4350	5330	3880	18000	22300	27400
Cr-TMS20	Chromium	ug/g	1	22	15	27	32	47	41
Co-TMS20	Cobalt	ug/g	0.3	7.7	6.7	8.4	11.0	11.2	12.4
Cu-TMS20	Copper	ug/g	0.5	35.2	37.6	45.0	26.8	26.0	30.7
Fe-TMS20	Iron	ug/g	100	18000	14600	18100	24300	24700	25800
Pb-TMS20	Lead	ug/g	0.1	40.2	17.0	46.9	55.7	85.8	64.6
Mg-TMS20	Magnesium	ug/g	100	5390	3700	5280	10800	11500	9710
Mn-TMS20	Manganese	ug/g	0.2	370	349	383	491	544	553
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.8	1.4	2.4	0.6	0.5	0.7
Ni-TMS20	Nickel	ug/g	0.8	25.9	23.0	33.1	41.9	49.6	46.7
K--TMS20	Potassium	ug/g	100	549	420	596	632	840	1690
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.07	0.11	0.08	0.05	0.06	0.06
Na-TMS20	Sodium	ug/g	100	509	252	416	557	391	376
Sr-TMS20	Strontium	ug/g	0.1	25.7	23.7	19.4	58.9	66.4	53.0
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	0.06	0.05	< 0.05	< 0.05	0.25
Sn-TMS20	Tin	ug/g	0.1	0.3	0.1	0.3	0.3	0.2	0.3
Ti-TMS20	Titanium	ug/g	1	473	257	552	632	686	617
V--TMS20	Vanadium	ug/g	2	38	21	32	45	48	45
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/07/22	04/07/22	04/07/22	04/07/22	04/07/22	04/07/22

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038907 Client ID : SITE16 SA1	14038908 SITE16 SA2	14038909 SITE16 SA3	14038910 SITE15 SA1	14038911 SITE15 SA2	14038912 SITE15 SA3
Zn-TMS20	Zinc	ug/g	1	55	61	68	53	59	69
Zr-TMS20	Zirconium	ug/g	0.5	1.5	0.9	2.0	2.5	2.8	1.6
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/07/22	04/07/22	04/07/22	04/07/22	04/07/22	04/07/22

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038913 Client ID : SITE14 SA1	14038914 SITE14 SA2	14038915 SITE14 SA3	14038916 SITE13 SA1	14038917 SITE13 SA2	14038918 SITE13 SA3
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.5	8.9	7.8	9.5	7.3	6.0
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	480	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	903	834	908	1180	1520	1130
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	12900	11800	14300	12400	19200	17900
Sb-TMS20	Antimony	ug/g	0.1	0.2	0.2	0.2	0.2	< 0.1	< 0.1
As-TMS20	Arsenic	ug/g	0.2	1.6	2.1	1.3	3.2	< 0.2	< 0.2
Ba-TMS20	Barium	ug/g	0.1	164	91.3	109	62.1	145	88.3
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.2	0.3	0.2	0.2	0.2
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.13	0.09	0.18	0.16	0.07	< 0.05
Ca-TMS20	Calcium	ug/g	100	6760	17800	5190	12900	3200	2860
Cr-TMS20	Chromium	ug/g	1	34	42	65	23	24	23
Co-TMS20	Cobalt	ug/g	0.3	16.1	19.4	22.7	14.5	14.4	10.0
Cu-TMS20	Copper	ug/g	0.5	39.3	37.9	32.9	38.8	13.6	11.4
Fe-TMS20	Iron	ug/g	100	29000	31600	38800	31100	25400	24400
Pb-TMS20	Lead	ug/g	0.1	5.5	4.8	4.4	13.1	8.6	6.2
Mg-TMS20	Magnesium	ug/g	100	9860	14900	13300	11200	4660	5100
Mn-TMS20	Manganese	ug/g	0.2	976	521	665	526	1390	399
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.4	0.5	0.6	0.6	1.8	0.8
Ni-TMS20	Nickel	ug/g	0.8	47.7	87.2	90.9	37.4	29.6	28.2
K--TMS20	Potassium	ug/g	100	936	868	2420	1010	1380	965
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.09	0.11	0.07	0.08	0.11	0.07
Na-TMS20	Sodium	ug/g	100	1270	1450	439	1820	599	216
Sr-TMS20	Strontium	ug/g	0.1	54.6	87.0	42.1	69.5	20.4	17.1
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.06	0.06	0.07	0.28	0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	0.3	0.3	0.4	0.3	0.4	0.4
Ti-TMS20	Titanium	ug/g	1	889	733	1130	789	961	977
V--TMS20	Vanadium	ug/g	2	57	43	64	66	35	34
				Matrix : Soil **Sampled on:** 04/07/21	Soil 04/07/21	Soil 04/07/21	Soil 04/07/21	Soil 04/07/21	Soil 04/07/21

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038913 Client ID : SITE14 SA1	14038914 SITE14 SA2	14038915 SITE14 SA3	14038916 SITE13 SA1	14038917 SITE13 SA2	14038918 SITE13 SA3
Zn-TMS20	Zinc	ug/g	1	59	57	74	60	130	106
Zr-TMS20	Zirconium	ug/g	0.5	4.3	8.3	4.1	3.9	2.8	2.6
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/07/21	04/07/21	04/07/21	04/07/21	04/07/21	04/07/21

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

				Lab ID :	14038919	14038920	14038921	14038922	14038923	14038924
				Client ID :	SITE12 SA1	SITE12 SA2	SITE12 SA3	SITE11 SA1	SITE11 SA2	SITE11 SA3
Sparcode	**Parameter**	**Unit**	**MDL**							
PHYSICAL										
0004DI02	pH (DI 1:2)	pH units	0.1		10.0	9.3	8.5	9.4	8.3	7.6
ANIONS										
110415SW	Chloride Dissolved	ug/g	50		< 50	< 50	< 50	< 50	< 50	170
PHOSPHORUS										
P--TMS20	Phosphorus Total (P)	ug/g	10		604	696	710	1050	1180	1250
METALS TOTAL										
Al-TMS20	Aluminum	ug/g	100		10900	10600	9250	12800	11300	13100
Sb-TMS20	Antimony	ug/g	0.1		0.4	0.3	0.4	0.4	0.4	0.3
As-TMS20	Arsenic	ug/g	0.2		4.9	5.2	7.9	5.0	5.1	5.1
Ba-TMS20	Barium	ug/g	0.1		61.7	50.8	61.9	101	105	119
Be-TMS20	Beryllium	ug/g	0.1		< 0.1	< 0.1	< 0.1	0.1	0.1	0.2
Bi-TMS20	Bismuth	ug/g	0.1		< 0.1	0.2	0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05		0.26	0.26	0.35	0.16	0.14	0.13
Ca-TMS20	Calcium	ug/g	100		8470	8120	16000	17700	17900	9170
Cr-TMS20	Chromium	ug/g	1		19	25	29	35	42	43
Co-TMS20	Cobalt	ug/g	0.3		8.4	9.0	10.7	13.6	12.4	11.9
Cu-TMS20	Copper	ug/g	0.5		36.2	38.0	55.1	138	126	56.9
Fe-TMS20	Iron	ug/g	100		22700	24000	23800	29300	25800	26500
Pb-TMS20	Lead	ug/g	0.1		10.9	28.9	40.5	36.9	49.3	20.9
Mg-TMS20	Magnesium	ug/g	100		7330	8180	8400	12400	11800	9680
Mn-TMS20	Manganese	ug/g	0.2		399	471	412	582	562	613
Hg-TMS20	Mercury	ug/g	0.05		< 0.05	< 0.05	< 0.05	0.07	0.08	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1		1.1	1.1	1.2	0.8	0.9	0.6
Ni-TMS20	Nickel	ug/g	0.8		17.6	21.3	28.9	39.7	44.0	39.0
K--TMS20	Potassium	ug/g	100		1650	1510	1350	1240	1530	2160
Se-TMS20	Selenium	ug/g	0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05		0.20	0.14	0.12	0.10	0.10	0.09
Na-TMS20	Sodium	ug/g	100		478	227	148	948	755	799
Sr-TMS20	Strontium	ug/g	0.1		25.7	25.1	50.8	80.9	88.6	69.4
Te-TMS20	Tellurium	ug/g	0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05		0.09	0.08	0.07	< 0.05	< 0.05	0.06
Sn-TMS20	Tin	ug/g	0.1		0.1	0.2	0.2	0.3	0.3	0.3
Ti-TMS20	Titanium	ug/g	1		538	509	513	733	657	682
V--TMS20	Vanadium	ug/g	2		38	40	43	79	74	79
				Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on:	04/07/21	04/07/21	04/07/21	04/07/20	04/07/20	04/07/20

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14038919	14038920	14038921	14038922	14038923	14038924
			Client ID :	SITE12 SA1	SITE12 SA2	SITE12 SA3	SITE11 SA1	SITE11 SA2	SITE11 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
Zn-TMS20	Zinc	ug/g	1	55	63	62	80	81	73
Zr-TMS20	Zirconium	ug/g	0.5	1.3	0.6	0.9	2.2	1.3	2.0
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/07/21	04/07/21	04/07/21	04/07/20	04/07/20	04/07/20

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038925 Client ID : SITE10 SA1	14038926 SITE10 SA2	14038927 SITE10 SA3	14038928 SITE9 SA1	14038929 SITE9 SA2	14038930 SITE9 SA3
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.0	8.3	6.8	8.8	7.1	6.6
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	738	1080	558	346	469	591
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	9410	12300	12100	6000	14000	9700
Sb-TMS20	Antimony	ug/g	0.1	0.7	0.6	0.5	< 0.1	< 0.1	< 0.1
As-TMS20	Arsenic	ug/g	0.2	4.8	4.0	3.1	0.8	3.9	1.4
Ba-TMS20	Barium	ug/g	0.1	235	231	236	30.5	139	118
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.2	0.2	< 0.1	< 0.1	< 0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.24	0.32	0.42	< 0.05	0.07	0.06
Ca-TMS20	Calcium	ug/g	100	27800	9040	5080	1550	3050	3700
Cr-TMS20	Chromium	ug/g	1	24	30	42	11	27	23
Co-TMS20	Cobalt	ug/g	0.3	8.7	10.4	11.2	4.7	10.8	8.2
Cu-TMS20	Copper	ug/g	0.5	28.6	28.0	26.8	17.9	44.2	30.7
Fe-TMS20	Iron	ug/g	100	22300	24300	24300	11400	21000	14800
Pb-TMS20	Lead	ug/g	0.1	10.0	5.1	7.3	9.7	3.8	2.1
Mg-TMS20	Magnesium	ug/g	100	5840	5970	7470	3570	7400	6100
Mn-TMS20	Manganese	ug/g	0.2	484	593	738	180	247	187
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.8	0.8	0.9	0.6	1.2	0.9
Ni-TMS20	Nickel	ug/g	0.8	32.3	36.8	40.0	6.3	16.4	26.0
K--TMS20	Potassium	ug/g	100	1060	2340	2410	880	1650	2020
Se-TMS20	Selenium	ug/g	0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.06	0.08	0.05	< 0.05	0.09	< 0.05
Na-TMS20	Sodium	ug/g	100	143	< 100	< 100	373	652	187
Sr-TMS20	Strontium	ug/g	0.1	48.6	26.9	19.6	9.5	27.7	22.2
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.08	0.07	0.08	< 0.05	0.12	0.09
Sn-TMS20	Tin	ug/g	0.1	0.3	0.3	0.3	< 0.1	0.2	0.1
Ti-TMS20	Titanium	ug/g	1	186	415	538	366	1070	661
V--TMS20	Vanadium	ug/g	2	40	45	44	24	54	36
				Matrix : Soil **Sampled on:** 04/07/20	Soil 04/07/20	Soil 04/07/20	Soil 04/07/20	Soil 04/07/20	Soil 04/07/20

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038925 Client ID : SITE10 SA1	14038926 SITE10 SA2	14038927 SITE10 SA3	14038928 SITE9 SA1	14038929 SITE9 SA2	14038930 SITE9 SA3
Zn-TMS20	Zinc	ug/g	1	68	80	91	25	56	35
Zr-TMS20	Zirconium	ug/g	0.5	0.9	1.4	2.0	< 0.5	< 0.5	< 0.5
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/07/20	04/07/20	04/07/20	04/07/20	04/07/20	04/07/20

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

		Lab ID :	14038931	14038932	14038933	14038934	14038935	14038936
		Client ID :	SITE1 SA1	SITE1 SA2	SITE1 SA3	BACKGROUND SITE1	SITE23 SA1	SITE23 SA2
Sparcode	**Parameter**	**Unit**	**MDL**					
PHYSICAL								
0004DI02	pH (DI 1:2)	pH units	0.1	8.9	7.9	8.0	6.9	6.0	7.8
ANIONS								
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS								
P--TMS20	Phosphorus Total (P)	ug/g	10	432	417	434	723	518	527
METALS TOTAL								
Al-TMS20	Aluminum	ug/g	100	8810	9500	9160	15700	6330	5780
Sb-TMS20	Antimony	ug/g	0.1	0.2	0.2	0.2	0.8	0.2	< 0.1
As-TMS20	Arsenic	ug/g	0.2	2.8	2.7	2.1	18.3	12.1	2.3
Ba-TMS20	Barium	ug/g	0.1	44.0	42.8	40.2	77.5	84.8	79.4
Be-TMS20	Beryllium	ug/g	0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.14	0.14	0.13	0.82	0.09	0.08
Ca-TMS20	Calcium	ug/g	100	2500	2550	2500	6760	2640	2710
Cr-TMS20	Chromium	ug/g	1	23	22	21	13	22	11
Co-TMS20	Cobalt	ug/g	0.3	7.1	6.4	5.8	15.8	4.5	4.7
Cu-TMS20	Copper	ug/g	0.5	26.7	23.2	24.6	49.6	36.9	21.0
Fe-TMS20	Iron	ug/g	100	17900	17500	16500	35900	18600	12900
Pb-TMS20	Lead	ug/g	0.1	9.3	10.0	13.7	7.6	11.2	4.8
Mg-TMS20	Magnesium	ug/g	100	6140	6600	6210	5960	3450	3390
Mn-TMS20	Manganese	ug/g	0.2	283	285	257	1190	188	217
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.7	0.4	0.5	1.1	1.5	0.5
Ni-TMS20	Nickel	ug/g	0.8	37.9	23.0	20.5	22.2	8.5	7.8
K--TMS20	Potassium	ug/g	100	593	693	563	814	1830	1540
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.19	0.07	0.05
Na-TMS20	Sodium	ug/g	100	311	279	325	192	523	371
Sr-TMS20	Strontium	ug/g	0.1	11.6	10.5	9.8	37.0	23.8	38.8
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.20	0.18	0.10
Sn-TMS20	Tin	ug/g	0.1	0.4	0.3	0.2	0.3	0.3	0.2
Ti-TMS20	Titanium	ug/g	1	490	504	476	360	479	415
		Matrix :		Soil	Soil	Soil	Soil	Soil	Soil
		Sampled on:		04/07/27	04/07/27	04/07/27	04/07/27	04/07/27	04/07/27

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14038931	14038932	14038933	14038934	14038935	14038936
			Client ID :	SITE1 SA1	SITE1 SA2	SITE1 SA3	BACKGROUND SITE1	SITE23 SA1	SITE23 SA2
Sparcode	**Parameter**	**Unit**	**MDL**						
V--TMS20	Vanadium	ug/g	2	33	32	30	44	43	33
Zn-TMS20	Zinc	ug/g	1	60	51	54	133	45	41
Zr-TMS20	Zirconium	ug/g	0.5	< 0.5	< 0.5	< 0.5	0.5	0.8	0.8
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/07/27	04/07/27	04/07/27	04/07/27	04/07/27	04/07/27

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038937 Client ID : SITE23 SA3	14038938 SITE24 SA1	14038939 SITE24 SA2	14038940 SITE24 SA3
PHYSICAL							
0004DI02	pH (DI 1:2)	pH units	0.1	7.4	9.9	9.2	9.5
ANIONS							
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	150	< 50
PHOSPHORUS							
P--TMS20	Phosphorus Total (P)	ug/g	10	556	646	708	745
METALS TOTAL							
Al-TMS20	Aluminum	ug/g	100	6560	10900	11700	12000
Sb-TMS20	Antimony	ug/g	0.1	0.1	0.2	0.3	0.2
As-TMS20	Arsenic	ug/g	0.2	3.8	2.3	2.2	2.4
Ba-TMS20	Barium	ug/g	0.1	84.3	43.3	56.6	58.6
Be-TMS20	Beryllium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.07	0.16	0.15	0.14
Ca-TMS20	Calcium	ug/g	100	4570	12700	7320	9470
Cr-TMS20	Chromium	ug/g	1	16	15	16	15
Co-TMS20	Cobalt	ug/g	0.3	5.4	10.2	10.2	10.6
Cu-TMS20	Copper	ug/g	0.5	24.8	32.0	39.3	42.5
Fe-TMS20	Iron	ug/g	100	15900	27500	33400	29000
Pb-TMS20	Lead	ug/g	0.1	6.4	7.6	8.8	12.5
Mg-TMS20	Magnesium	ug/g	100	4160	8800	9580	9500
Mn-TMS20	Manganese	ug/g	0.2	234	640	649	575
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.7	0.6	0.6	0.6
Ni-TMS20	Nickel	ug/g	0.8	9.6	12.5	11.2	12.5
K--TMS20	Potassium	ug/g	100	1860	519	525	671
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.08	0.06	0.07	0.10
Na-TMS20	Sodium	ug/g	100	339	429	532	460
Sr-TMS20	Strontium	ug/g	0.1	25.0	27.7	20.6	26.0
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.14	< 0.05	< 0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	0.2	0.2	0.2	0.3
Ti-TMS20	Titanium	ug/g	1	544	593	466	584
V--TMS20	Vanadium	ug/g	2	41	59	59	62
				Matrix : Soil	Soil	Soil	Soil
				Sampled on: 04/07/27 16:00	04/07/27 16:00	04/07/27 16:00	04/07/27 16:00

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14038937 Client ID : SITE23 SA3	14038938 SITE24 SA1	14038939 SITE24 SA2	14038940 SITE24 SA3
Zn-TMS20	Zinc	ug/g	1	42	60	64	67
Zr-TMS20	Zirconium	ug/g	0.5	1.2	1.2	1.3	1.7
				Matrix : Soil	Soil	Soil	Soil
				Sampled on: 04/07/27 16:00	04/07/27 16:00	04/07/27 16:00	04/07/27 16:00

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DUPLICATE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
Silver	SITE18	14038888	0.06	0.05	0.05	ug/g	18.18
Aluminum	SITE18	14038888	8470	8970	100	ug/g	-5.73
Arsenic	SITE18	14038888	2.0	1.5	0.2	ug/g	28.57
Barium	SITE18	14038888	49.1	62.4	0.1	ug/g	-23.86
Beryllium	SITE18	14038888	< 0.1	< 0.1	0.1	ug/g	0.00
Bismuth	SITE18	14038888	< 0.1	< 0.1	0.1	ug/g	0.00
Calcium	SITE18	14038888	9040	6970	100	ug/g	25.86
Cadmium	SITE18	14038888	0.14	0.15	0.05	ug/g	-6.90
Cobalt	SITE18	14038888	7.7	7.5	0.3	ug/g	2.63
Chromium	SITE18	14038888	20	23	1	ug/g	-13.95
Copper	SITE18	14038888	20.7	20.5	0.5	ug/g	0.97
Iron	SITE18	14038888	17100	17100	100	ug/g	0.00
Potassium	SITE18	14038888	276	289	100	ug/g	-4.60
Magnesium	SITE18	14038888	5470	5730	100	ug/g	-4.64
Manganese	SITE18	14038888	335	333	0.2	ug/g	0.60
Molybdenum	SITE18	14038888	0.7	0.6	0.1	ug/g	15.38
Sodium	SITE18	14038888	< 100	< 100	100	ug/g	0.00
Nickel	SITE18	14038888	22.7	23.7	0.8	ug/g	-4.31
Phosphorus Total (P)	SITE18	14038888	557	488	10	ug/g	13.21
Lead	SITE18	14038888	23.6	24.0	0.1	ug/g	-1.68
Antimony	SITE18	14038888	0.3	0.2	0.1	ug/g	40.00
Selenium	SITE18	14038888	< 0.5	< 0.5	0.5	ug/g	0.00
Tin	SITE18	14038888	0.2	0.2	0.1	ug/g	0.00
Strontium	SITE18	14038888	17.5	18.4	0.1	ug/g	-5.01
Tellurium	SITE18	14038888	< 0.1	< 0.1	0.1	ug/g	0.00
Titanium	SITE18	14038888	602	578	1	ug/g	4.07
Thallium	SITE18	14038888	< 0.05	< 0.05	0.05	ug/g	0.00
Vanadium	SITE18	14038888	33	34	2	ug/g	-2.99
Zinc	SITE18	14038888	45	44	1	ug/g	2.25
Zirconium	SITE18	14038888	1.6	1.6	0.5	ug/g	0.00
Mercury	SITE18	14038888	< 0.05	< 0.05	0.05	ug/g	0.00
pH (DI 1:2)	SITE19 SA3	14038897	9.0	9.1	0.1	pH units	-1.10
Chloride Dissolved	SITE21 SA2	14038902	< 50	< 50	50	ug/g	0.00
Silver	SITE15 SA2	14038911	0.06	0.06	0.05	ug/g	0.00
Aluminum	SITE15 SA2	14038911	9290	8860	100	ug/g	4.74
Arsenic	SITE15 SA2	14038911	1.8	1.8	0.2	ug/g	0.00
Barium	SITE15 SA2	14038911	81.9	84.2	0.1	ug/g	-2.77
Beryllium	SITE15 SA2	14038911	< 0.1	< 0.1	0.1	ug/g	0.00

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DUPLICATE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
Bismuth	SITE15 SA2	14038911	< 0.1	< 0.1	0.1	ug/g	0.00
Calcium	SITE15 SA2	14038911	22300	20800	100	ug/g	6.96
Cadmium	SITE15 SA2	14038911	0.19	0.18	0.05	ug/g	5.41
Cobalt	SITE15 SA2	14038911	11.2	10.7	0.3	ug/g	4.57
Chromium	SITE15 SA2	14038911	47	44	1	ug/g	6.59
Copper	SITE15 SA2	14038911	26.0	24.9	0.5	ug/g	4.32
Iron	SITE15 SA2	14038911	24700	23800	100	ug/g	3.71
Potassium	SITE15 SA2	14038911	840	774	100	ug/g	8.18
Magnesium	SITE15 SA2	14038911	11500	10900	100	ug/g	5.36
Manganese	SITE15 SA2	14038911	544	515	0.2	ug/g	5.48
Molybdenum	SITE15 SA2	14038911	0.5	0.5	0.1	ug/g	0.00
Sodium	SITE15 SA2	14038911	391	367	100	ug/g	6.33
Nickel	SITE15 SA2	14038911	49.6	46.7	0.8	ug/g	6.02
Phosphorus Total (P)	SITE15 SA2	14038911	812	757	10	ug/g	7.01
Lead	SITE15 SA2	14038911	85.8	88.5	0.1	ug/g	-3.10
Antimony	SITE15 SA2	14038911	0.3	0.3	0.1	ug/g	0.00
Selenium	SITE15 SA2	14038911	< 0.5	< 0.5	0.5	ug/g	0.00
Tin	SITE15 SA2	14038911	0.2	0.3	0.1	ug/g	-40.00
Strontium	SITE15 SA2	14038911	66.4	63.4	0.1	ug/g	4.62
Tellurium	SITE15 SA2	14038911	< 0.1	< 0.1	0.1	ug/g	0.00
Titanium	SITE15 SA2	14038911	686	644	1	ug/g	6.32
Thallium	SITE15 SA2	14038911	< 0.05	< 0.05	0.05	ug/g	0.00
Vanadium	SITE15 SA2	14038911	48	44	2	ug/g	8.70
Zinc	SITE15 SA2	14038911	59	56	1	ug/g	5.22
Zirconium	SITE15 SA2	14038911	2.8	2.6	0.5	ug/g	7.41
Mercury	SITE15 SA2	14038911	< 0.05	< 0.05	0.05	ug/g	0.00
pH (DI 1:2)	SITE11 SA1	14038922	9.4	9.4	0.1	pH units	0.00
Chloride Dissolved	SITE11 SA1	14038922	< 50	< 50	50	ug/g	0.00
Chloride Dissolved	SITE24 SA3	14038940	< 50	< 50	50	ug/g	0.00

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SPIKE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Arsenic	Blank Spike. Batch :	44201965	< 0.2	53.2	50	ug/g	106
Cadmium	Blank Spike. Batch :	44201965	< 0.05	45.5	50	ug/g	91
Cobalt	Blank Spike. Batch :	44201965	< 0.3	52.1	50	ug/g	104
Chromium	Blank Spike. Batch :	44201965	< 1	51	50	ug/g	102
Copper	Blank Spike. Batch :	44201965	< 0.5	55.8	50	ug/g	112
Lead	Blank Spike. Batch :	44201965	< 0.1	51.6	50	ug/g	103
Selenium	Blank Spike. Batch :	44201965	< 0.5	50.5	50	ug/g	101
Zinc	Blank Spike. Batch :	44201965	< 1	53	50	ug/g	105
pH (DI 1:2)	Blank Spike. Batch :	44402984	< 0.1	6.0	6	pH units	99
Mercury	Blank Spike. Batch :	44201965	< 0.05	0.93	1	ug/g	93
Arsenic	SITE18	14038888	2.0	57.8	50	ug/g	112
Cadmium	SITE18	14038888	0.14	47.0	50	ug/g	94
Cobalt	SITE18	14038888	7.7	60.3	50	ug/g	105
Chromium	SITE18	14038888	20	75	50	ug/g	110
Copper	SITE18	14038888	20.7	74.6	50	ug/g	108
Lead	SITE18	14038888	23.6	84.3	50	ug/g	121
Selenium	SITE18	14038888	< 0.5	54.4	50	ug/g	109
Zinc	SITE18	14038888	45	101	50	ug/g	112
Mercury	SITE18	14038888	< 0.05	1.03	1	ug/g	101
Chloride Dissolved	SITE21 SA2	14038902	< 50	5300	5000	ug/g	105
pH (DI 1:2)	Blank Spike. Batch :	44402985	< 0.1	6.0	6	pH units	100
Arsenic	SITE15 SA2	14038911	1.8	57.5	50	ug/g	111
Cadmium	SITE15 SA2	14038911	0.19	49.0	50	ug/g	98
Cobalt	SITE15 SA2	14038911	11.2	62.3	50	ug/g	102
Chromium	SITE15 SA2	14038911	47	88	50	ug/g	82
Copper	SITE15 SA2	14038911	26.0	80.2	50	ug/g	108
Selenium	SITE15 SA2	14038911	< 0.5	53.6	50	ug/g	108
Zinc	SITE15 SA2	14038911	59	110	50	ug/g	104
Mercury	SITE15 SA2	14038911	< 0.05	1.01	1	ug/g	99
Chloride Dissolved	SITE11 SA1	14038922	< 50	5500	5000	ug/g	109
pH (DI 1:2)	Blank Spike. Batch :	44402986	< 0.1	6.0	6	pH units	101
Chloride Dissolved	SITE24 SA3	14038940	< 50	5500	5000	ug/g	109

ANALYSIS DATES

	Lab ID : Client ID:	14038882 SITE25	14038883 SITE25	14038884 SITE25	14038885 SITE17
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	23-JUL-2004	23-JUL-2004	23-JUL-2004	22-JUL-2004

	Lab ID : Client ID:	14038886 SITE17	14038887 SITE17	14038888 SITE18	14038889 SITE18
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	22-JUL-2004	22-JUL-2004	25-JUL-2004	25-JUL-2004

	Lab ID : Client ID:	14038890 SITE18	14038891 SITE8	14038892 SITE8	14038893 SITE8
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	23-JUL-2004	23-JUL-2004	23-JUL-2004

ANALYSIS DATES

	Lab ID :	14038895	14038896	14038897	14038898
	Client ID:	SITE19 SA1	SITE19 SA2	SITE19 SA3	SITE20 SA1
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	25-JUL-2004	25-JUL-2004	25-JUL-2004

	Lab ID :	14038899	14038900	14038901	14038902
	Client ID:	SITE20 SA2	SITE20 SA3	SITE21 SA1	SITE21 SA2
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	25-JUL-2004	25-JUL-2004	25-JUL-2004

	Lab ID :	14038903	14038904	14038905	14038906
	Client ID:	SITE21 SA3	SITE22 SA1	SITE22 SA2	SITE22 SA3
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	25-JUL-2004	25-JUL-2004	25-JUL-2004

ANALYSIS DATES

	Lab ID : Client ID:	14038907 SITE16 SA1	14038908 SITE16 SA2	14038909 SITE16 SA3	14038910 SITE15 SA1
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	22-JUL-2004	22-JUL-2004	22-JUL-2004	22-JUL-2004

	Lab ID : Client ID:	14038911 SITE15 SA2	14038912 SITE15 SA3	14038913 SITE14 SA1	14038914 SITE14 SA2
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	22-JUL-2004	22-JUL-2004	21-JUL-2004	21-JUL-2004

	Lab ID : Client ID:	14038915 SITE14 SA3	14038916 SITE13 SA1	14038917 SITE13 SA2	14038918 SITE13 SA3
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	21-JUL-2004	21-JUL-2004	21-JUL-2004	21-JUL-2004

ANALYSIS DATES

	Lab ID :	14038919	14038920	14038921	14038922
	Client ID:	SITE12 SA1	SITE12 SA2	SITE12 SA3	SITE11 SA1
0004DI02	pH (DI 1:2)	29-JUL-2004	29-JUL-2004	29-JUL-2004	29-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	21-JUL-2004	21-JUL-2004	21-JUL-2004	20-JUL-2004

	Lab ID :	14038923	14038924	14038925	14038926
	Client ID:	SITE11 SA2	SITE11 SA3	SITE10 SA1	SITE10 SA2
0004DI02	pH (DI 1:2)	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	20-JUL-2004	20-JUL-2004	20-JUL-2004	20-JUL-2004

	Lab ID :	14038927	14038928	14038929	14038930
	Client ID:	SITE10 SA3	SITE9 SA1	SITE9 SA2	SITE9 SA3
0004DI02	pH (DI 1:2)	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	20-JUL-2004	20-JUL-2004	20-JUL-2004	20-JUL-2004

ANALYSIS DATES

	Lab ID : Client ID:	14038931 SITE1 SA1	14038932 SITE1 SA2	14038933 SITE1 SA3	14038934 BACKGROUND SITE1
0004DI02	pH (DI 1:2)	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	27-JUL-2004	27-JUL-2004	27-JUL-2004	27-JUL-2004

	Lab ID : Client ID:	14038935 SITE23 SA1	14038936 SITE23 SA2	14038937 SITE23 SA3	14038938 SITE24 SA1
0004DI02	pH (DI 1:2)	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	27-JUL-2004	27-JUL-2004	27-JUL-2004	27-JUL-2004

	Lab ID : Client ID:	14038939 SITE24 SA2	14038940 SITE24 SA3
0004DI02	pH (DI 1:2)	30-JUL-2004	30-JUL-2004
110415SW	Chloride Dissolved	30-JUL-2004	30-JUL-2004
Hg-TMS20	Mercury	02-AUG-2004	02-AUG-2004
ICPMS200	Soil Metals by ICP-MS	02-AUG-2004	02-AUG-2004
	Matrix:	Soil	Soil
	Sampled on:	27-JUL-2004	27-JUL-2004

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	Lab ID :	14038882	14038883	14038884	14038885
	Client ID:	SITE25	SITE25	SITE25	SITE17
0004DI02	pH (DI 1:2)	44402984	44402984	44402984	44402984
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	23-JUL-2004	23-JUL-2004	23-JUL-2004	22-JUL-2004

	Lab ID :	14038886	14038887	14038888	14038889
	Client ID:	SITE17	SITE17	SITE18	SITE18
0004DI02	pH (DI 1:2)	44402984	44402984	44402984	44402984
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	22-JUL-2004	22-JUL-2004	25-JUL-2004	25-JUL-2004

	Lab ID :	14038890	14038891	14038892	14038893
	Client ID:	SITE18	SITE8	SITE8	SITE8
0004DI02	pH (DI 1:2)	44402984	44402984	44402984	44402984
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	23-JUL-2004	23-JUL-2004	23-JUL-2004

BATCH NUMBERS

	Lab ID :	14038895	14038896	14038897	14038898
	Client ID:	SITE19 SA1	SITE19 SA2	SITE19 SA3	SITE20 SA1
0004DI02	pH (DI 1:2)	44402984	44402984	44402984	44402984
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	25-JUL-2004	25-JUL-2004	25-JUL-2004

	Lab ID :	14038899	14038900	14038901	14038902
	Client ID:	SITE20 SA2	SITE20 SA3	SITE21 SA1	SITE21 SA2
0004DI02	pH (DI 1:2)	44402984	44402984	44402984	44402984
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	25-JUL-2004	25-JUL-2004	25-JUL-2004

	Lab ID :	14038903	14038904	14038905	14038906
	Client ID:	SITE21 SA3	SITE22 SA1	SITE22 SA2	SITE22 SA3
0004DI02	pH (DI 1:2)	44402985	44402985	44402985	44402985
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	25-JUL-2004	25-JUL-2004	25-JUL-2004	25-JUL-2004

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BATCH NUMBERS

	Lab ID :	14038907	14038908	14038909	14038910
	Client ID:	SITE16 SA1	SITE16 SA2	SITE16 SA3	SITE15 SA1
0004DI02	pH (DI 1:2)	44402985	44402985	44402985	44402985
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	22-JUL-2004	22-JUL-2004	22-JUL-2004	22-JUL-2004

	Lab ID :	14038911	14038912	14038913	14038914
	Client ID:	SITE15 SA2	SITE15 SA3	SITE14 SA1	SITE14 SA2
0004DI02	pH (DI 1:2)	44402985	44402985	44402985	44402985
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	22-JUL-2004	22-JUL-2004	21-JUL-2004	21-JUL-2004

	Lab ID :	14038915	14038916	14038917	14038918
	Client ID:	SITE14 SA3	SITE13 SA1	SITE13 SA2	SITE13 SA3
0004DI02	pH (DI 1:2)	44402985	44402985	44402985	44402985
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	21-JUL-2004	21-JUL-2004	21-JUL-2004	21-JUL-2004

BATCH NUMBERS

	Lab ID : Client ID:	14038919 SITE12 SA1	14038920 SITE12 SA2	14038921 SITE12 SA3	14038922 SITE11 SA1
0004DI02	pH (DI 1:2)	44402985	44402985	44402985	44402985
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	21-JUL-2004	21-JUL-2004	21-JUL-2004	20-JUL-2004

	Lab ID : Client ID:	14038923 SITE11 SA2	14038924 SITE11 SA3	14038925 SITE10 SA1	14038926 SITE10 SA2
0004DI02	pH (DI 1:2)	44402986	44402986	44402986	44402986
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	20-JUL-2004	20-JUL-2004	20-JUL-2004	20-JUL-2004

	Lab ID : Client ID:	14038927 SITE10 SA3	14038928 SITE9 SA1	14038929 SITE9 SA2	14038930 SITE9 SA3
0004DI02	pH (DI 1:2)	44402986	44402986	44402986	44402986
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	20-JUL-2004	20-JUL-2004	20-JUL-2004	20-JUL-2004

BATCH NUMBERS

	Lab ID :	14038931	14038932	14038933	14038934
	Client ID:	SITE1 SA1	SITE1 SA2	SITE1 SA3	BACKGROUND SITE1
0004DI02	pH (DI 1:2)	44402986	44402986	44402986	44402986
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	27-JUL-2004	27-JUL-2004	27-JUL-2004	27-JUL-2004

	Lab ID :	14038935	14038936	14038937	14038938
	Client ID:	SITE23 SA1	SITE23 SA2	SITE23 SA3	SITE24 SA1
0004DI02	pH (DI 1:2)	44402986	44402986	44402986	44402986
110415SW	Chloride Dissolved	44102411	44102411	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965	44201965	44201965
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	27-JUL-2004	27-JUL-2004	27-JUL-2004	27-JUL-2004

	Lab ID :	14038939	14038940
	Client ID:	SITE24 SA2	SITE24 SA3
0004DI02	pH (DI 1:2)	44402986	44402986
110415SW	Chloride Dissolved	44102411	44102411
Hg-TMS20	Mercury	44201965	44201965
ICPMS200	Soil Metals by ICP-MS	44201965	44201965
	Matrix:	Soil	Soil
	Sampled on:	27-JUL-2004	27-JUL-2004

03-Aug-04
Page 35 of 35

BLANK SUMMARY

All method blanks were less than MDL

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Jacques Whitford Date: July 29/04 Initial: MF C of C #: ~~80988~~ 8098641

Sample ID	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																							
2	1																							
3	1																							
4	1																							
5	1																							
6	1																							
7	1																							
8	1																							
9	1																							
10	1																							
11	1																							
12	1																							

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☐ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☐ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____
☐ Insufficient Sample (lab use only)

o Poured off anions

Comments: On CoC # 8098641 Sample number 8 Lid label says Site 19 Sa2 CoC Says Site 18

	Temperature			Average
Cooler #1	3	3	7	4
Cooler #2	7	5	3	5
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Jacques Whitford Date: July 29/04 Initial: MF C of C #: 8098640

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	–																						
2	–																						
3	–																						
4	–																						
5	–																						
6	–																						
7	–																						
8	–																						
9	–																						
10	–																						
11	–																						
12	–																						
13	–																						
14	–																						
15	–																						

o Poured off anions

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

Comments: _____

	Temperature			Average
Cooler #1	3	3	7	4
Cooler #2	7	5	3	5
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Jacques Whitford Date: July 29/04 Initial: mp C of C #: 80985OO

Sample ID	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies
	Insufficient Sample (lab use only)

o Poured off anions

Comments:

	Temperature			Average
Cooler #1	3	3	7	4
Cooler #2	7	5	3	5
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs:

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Jacques Whitford Date: July 29/04 Initial: MC C of C #: 8098639

	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER: ___	PRESERVATIVE CHECK
1	1																						
2	1																						
3	1																						
4	1																						
5	1																						
6	1																						
7	1																						
8	1																						
9	1																						
10	1																						
11	1																						
12	1																						

o Poured off anions

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☐ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☐ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____

☐ Insufficient Sample (lab use only)

Comments: _____

	Temperature			Average
Cooler #1	3	3	7	4
Cooler #2	7	5	3	5
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Jacques Whitford Date: July 29/04 Initial: JMS C of C #: 809 89 69 3098641

Sample ID	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																						
2	1																						
3	1																						
4	1																						
5	1																						
6	1																						
7	1																						
8	1																						
9	1																						
10	1																						
11																							
12																							

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

o Poured off anions

Comments: _____

	Temperature			Average
Cooler #1	3	3	7	4
Cooler #2	7	5	3	5
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

ANALYTICAL SERVICES

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8098641

COMPANY NAME: Jacques Whitford	PH. #: 604-436-3014
COMPANY ADDRESS: 4370 Dominion Burnaby	FAX #: 604-436-3752
	CLIENT PROJECT ID: (#) BCV 8761843
SAMPLER NAME (PRINT): Liliana Jerade	PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	SURFACE WATER	SOIL	OTHER	# CONTAINERS	SAMPLING: DATE	TIME	HEADSPACE VAPOUR	Total metals	Chlorides OI leach
1	Site25	38882			X		1	23/07/04			X	X
2	Site25	38883			X		1	23/07/04			X	X
3	Site25	38884			X		1	23/07/04			X	X
4	Site17	38885			X		1	22/07/04			X	X
5	Site17	38886			X		1	22/07/04			X	X
6	Site17	38887			X		1	22/07/04			X	X
7	Site18	38888			X		1	25/07/04			X	X
8	Site18	38889			X		1	25/07/04			X	X
9	Site18	38890			X		1	25/07/04			X	X
10	Site8	38891			X		1	23/07/04			X	X
11	Site8	38892			X		1	23/07/04			X	X
12	Site8	38893			X		1	23/07/04			X	X

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

* some exceptions apply please contact lab

- STANDARD 10 BUSINESS DAYS ☐
- STANDARD 5 BUSINESS DAYS ☐
- RUSH 2 BUSINESS DAYS ☐
- URGENT 1 BUSINESS DAY ☐
- OTHER BUSINESS DAYS 3 day

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE

☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED: 58

LAB USE ONLY

ARRIVAL TEMPERATURE °C: See SIR

LAB INFORMATION: aug 03/04 mf

RELINQUISHED BY SAMPLER: Liliana Jerade	DATE 28/07/04	TIME 08:00	RECEIVED BY: Stewart McBride
RELINQUISHED BY: Stewart McBride	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE 28/07/04	TIME 16:10	RECEIVED BY LABORATORY: AF

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST PAGE 2 OF 5

ANALYSIS REQUEST 8098640

COMPANY NAME: Jacques Whitford
PH. #: 604-436-3014
FAX #: 604-436-3752
COMPANY ADDRESS: 4370 ~~Ho Hi Fraser~~ Dominion, Burnaby
CLIENT PROJECT ID: (#) BCN 61843
SAMPLER NAME (PRINT): Liliana Jemde
PROJECT MANAGER: Liliana Jemde

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	SURFACE WATER	SOIL	OTHER	# CONTAINERS	SAMPLING: DATE	TIME	HEADSPACE VAPOUR	Total Metals	Chlorides DI Leach
1	Site19 Sa1	38895			X		1	25/07/04			X	X
2	Site19 Sa2	38896			X		1	25/07/04			X	X
3	Site19 Sa3	38897			X		1	25/07/04			X	X
4	Site20 Sa1	38898			X		1	25/07/04			X	X
5	Site20 Sa2	38899			X		1	25/07/04			X	X
6	Site20 Sa3	38900			X		1	25/07/04			X	X
7	Site21 Sa1	38901			X		1	25/07/04			X	X
8	Site21 Sa2	38902			X		1	25/07/04			X	X
9	Site21 Sa3	38903			X		1	25/07/04			X	X
10	Site22 Sa1	38904			X		1	26/07/04			X	X
11	Site22 Sa2	38905			X		1	26/07/04			X	X
12	Site22 Sa3	38906			X		1	26/07/04			X	X

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☐
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS 3day

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT
JARS USED: 58

LAB USE ONLY
ARRIVAL TEMPERATURE °C: See SIR
LAB INFORMATION: Aug 03/04 MF

RELINQUISHED BY SAMPLER: Liliana Jemde	DATE 28/07/04	TIME 08:00	RECEIVED BY: Stewart McBride
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE 28/07/04	TIME 16:10	RECEIVED BY LABORATORY: AR

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8098500

COMPANY NAME: Jacques Whitford
PH. #: 604-436-3014
FAX #: 604-436-3752
COMPANY ADDRESS: 4370 ~~North Fraser Way~~ Dominion Burnaby
CLIENT PROJECT ID: (#) BCV 61843
SAMPLER NAME (PRINT): Liliana Jerade
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE	SAMPLING: TIME	HEADSPACE VAPOUR	Total metals	Chlorides DI Leach
1	Site 16 Sa 1	38907			X		1	22/07/04			X	X
2	Site 16 Sa 2	38908			X		1	22/07/04			X	X
3	Site 16 Sa 3	38909			X		1	22/07/04			X	X
4	Site 15 Sa 1	38910			X		1	22/07/04			X	X
5	Site 15 Sa 2	38911			X		1	22/07/04			X	X
6	Site 15 Sa 3	38912			X		1	22/07/04			X	X
7	Site 14 Sa 1	38913			X		1	21/07/04			X	X
8	Site 14 Sa 2	38914			X		1	21/07/04			X	X
9	Site 14 Sa 3	38915			X		1	21/07/04			X	X
10	Site 13 Sa 1	38916			X		1	21/07/04			X	X
11	Site 13 Sa 2	38917			X		1	21/07/04			X	X
12	Site 13 Sa 3	38918			X		1	21/07/04			X	X

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☐
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS 3 day

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ BCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT
JARS USED: 58

LAB USE ONLY
ARRIVAL TEMPERATURE °C: See SIR
LAB INFORMATION: Aug 03/04 MF

RELINQUISHED BY SAMPLER: Liliana Jerade	DATE 08.00	TIME July 28, 04	RECEIVED BY: Stewart McBride	
RELINQUISHED BY: Stewart McBride	DATE	TIME	RECEIVED BY:	
RELINQUISHED BY:	DATE 28/07/04	TIME 16.10	RECEIVED BY LABORATORY: AR	

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8098639

COMPANY NAME:	PH. #: 604-436-3014
Jacques Whitford	FAX #: 604-436-3752
COMPANY ADDRESS:	CLIENT PROJECT ID: (#)
4370 Dominion Burnaby	BW61843
SAMPLER NAME (PRINT):	PROJECT MANAGER:
Liliana Jerade	Liliana Jerade

| | FIELD SAMPLE ID | PSC LAB # (Lab Use Only) | MATRIX: GROUND WATER | MATRIX: SURFACE WATER | MATRIX: SOIL | MATRIX: OTHER | # CONTAINERS | SAMPLING: DATE | SAMPLING: TIME | SAMPLING: HEADSPACE VAPOUR | Total Metals | Chlorides OT leach | | |

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

ANALYTICAL SERVICES

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8098964

COMPANY NAME: Jacques Whitford
PH. #: 604-436-3014
FAX #: 604-436-3752
COMPANY ADDRESS: 4370 Dominion Burnaby
CLIENT PROJECT ID: (#) BU 6893
SAMPLER NAME (PRINT): Liliana Jerade
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Total Metals	Chlorides DI leach
1	Site1 Sa2	38931			X		1	27/07/04			X	X
2	Site1 Sa1	38932			X		1	27/07/04			X	X
3	Site1 Sa3	38933			X		1	27/07/04			X	X
4	Background Site1	38934			X		1	27/07/04			X	X
5	Site23 Sa1	38935			X		1	27/07/04			X	X
6	Site23 Sa2	38936			X		1	27/07/04			X	X
7	Site 23 Sa3	38937			X		1	27/07/04			X	X
8	Site24 Sa1	38938			X		1	27/07/04			X	X
9	Site24 Sa2	38939			X		1	27/07/04			X	X
10	Site24 Sa3	38940			X		1	27/07/04			X	X
11												
12												

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☐
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS 3day

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT
JARS USED: 58

LAB USE ONLY
ARRIVAL TEMPERATURE °C: see SIF
LAB INFORMATION: Aug 03/04 MF

RELINQUISHED BY SAMPLER: Liliana Jerade	DATE 28/07/04	TIME 08:00	RECEIVED BY: Stewart McBride
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE 28/07/04	TIME 16:10	RECEIVED BY LABORATORY: AR

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

BA-2017-70442

8577 Commerce Court
Burnaby, B.C.
Canada V5A 4N5
Tel 604 444 4808
Fax 604 444 4511

01-Dec-04
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Certificate of Analysis

Reported To :

JACQUES WHITFORD Client Code AY

4370 DOMINION ST. 5TH FLOOR
BURNABY, B.C.
V5G 4L7

Attention : LILIANA JERADE
Phone : (604) 436-3014
FAX : (604) 436-3752

Project Information :

Project ID : BCV61843

Requisition Forms :

Form 08058297 logged on 25-Nov-04 completed on 01-Dec-04
Form 08058295 logged on 25-Nov-04 completed on 01-Dec-04
Form 08166748 logged on 25-Nov-04 completed on 01-Dec-04
Form 08142678 logged on 25-Nov-04 completed on 01-Dec-04
Form 08166742 logged on 25-Nov-04 completed on 01-Dec-04
Form 08166743 logged on 25-Nov-04 completed on 01-Dec-04
Form 08166746 logged on 25-Nov-04 completed on 01-Dec-04
Form 81667461 logged on 25-Nov-04 completed on 30-Nov-04

Remarks :

+ All blank values are reported. Associated data are not blank corrected.
+ 'MDL' = Method Detection Limit, '<' = Less than MDL, '---' = Not analyzed
+ Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease
+ Organic analyses are not corrected for extraction recovery standards except for Isotope Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
+ All CCME and/or BC CSR results met required criteria unless otherwise stated in the report. All data on final reports are validated by technical personnel. Signature on file at laboratory. Deviations from Reference Method for the Canadian-wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method:
  - F1 data - None
  - F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction
+ All Groundwater samples except BTEX/VOC's or Purgeable Hydrocarbons are decanted and/or filtered prior to analysis unless otherwise mandated by regulatory agency
+ This report shall not be reproduced except in full, without the written approval of the laboratory

Methods used by Philip are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 20th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Liability for any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied.
Your samples will be retained at Philip for a period of 30 days from receipt of data or as per contract.

PHILIP Project Manager: Lee Card

01-Dec-04

ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14067721	14067722	14067723	14067724	14067725	14067726
	Client ID :	SITE 1 SA1	SITE 1 SA2	SITE 1 SA3	SITE 2 SA1	SITE 2 SA2	SITE 2 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	8.5	8.3	7.6	7.7	6.7	7.4
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	480	401	496	616	693	823
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	10200	8240	9170	15200	18700	22900
Sb-TMS20	Antimony	ug/g	0.1	0.2	0.2	0.2	0.3	0.6	0.6
As-TMS20	Arsenic	ug/g	0.2	5.8	3.5	3.3	4.0	7.8	10.4
Ba-TMS20	Barium	ug/g	0.1	57.6	50.7	48.2	48.0	35.3	38.3
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.1	0.2	0.2	0.3	0.4
Bi-TMS20	Bismuth	ug/g	0.1	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.17	0.13	0.12	0.18	0.54	0.75
Ca-TMS20	Calcium	ug/g	100	1600	1550	1930	3610	3320	2820
Cr-TMS20	Chromium	ug/g	1	18	15	22	36	29	29
Co-TMS20	Cobalt	ug/g	0.3	7.8	5.8	6.7	9.5	11.0	12.0
Cu-TMS20	Copper	ug/g	0.5	24.6	21.9	27.5	38.5	43.6	45.9
Fe-TMS20	Iron	ug/g	100	19200	15500	17900	27600	37700	43700
Pb-TMS20	Lead	ug/g	0.1	7.6	11.3	15.5	62.6	26.1	19.7
Mg-TMS20	Magnesium	ug/g	100	7150	5240	6120	9080	10400	11300
Mn-TMS20	Manganese	ug/g	0.2	356	297	295	457	705	882
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.07	0.09	0.08
Mo-TMS20	Molybdenum	ug/g	0.1	0.5	0.4	0.6	0.6	0.8	1.0
Ni-TMS20	Nickel	ug/g	0.8	21.2	14.6	22.8	22.6	18.9	19.5
K--TMS20	Potassium	ug/g	100	1100	1020	775	589	420	461
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.06	0.05	0.11	0.06	0.13	0.12
Na-TMS20	Sodium	ug/g	100	479	408	372	724	410	332
Sr-TMS20	Strontium	ug/g	0.1	7.9	8.5	10.2	22.1	14.1	11.2
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.14	0.13	0.14	0.07	0.08	0.08
Sn-TMS20	Tin	ug/g	0.1	0.6	0.4	0.4	0.3	0.3	0.3
Ti-TMS20	Titanium	ug/g	1	455	468	416	390	433	485
V--TMS20	Vanadium	ug/g	2	34	28	31	50	67	75

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/15	04/11/15	04/11/15	04/11/15	04/11/15	04/11/15

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067721 Client ID : SITE 1 SA1	14067722 SITE 1 SA2	14067723 SITE 1 SA3	14067724 SITE 2 SA1	14067725 SITE 2 SA2	14067726 SITE 2 SA3
Zn-TMS20	Zinc	ug/g	1	60	55	57	84	121	155
Zr-TMS20	Zirconium	ug/g	0.5	1.1	1.2	1.4	2.3	6.6	8.8
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/11/15	04/11/15	04/11/15	04/11/15	04/11/15	04/11/15

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

				Lab ID :	14067727	14067728	14067729	14067730	14067731	14067732
				Client ID :	SITE 3 SA1	SITE 3 SA2	SITE 3 SA3	SITE 4 SA1	SITE 4 SA2	SITE 4 SA3
Sparcode	**Parameter**	**Unit**	**MDL**							
PHYSICAL										
0004DI02	pH (DI 1:2)	pH units	0.1		9.9	9.9	9.8	8.1	8.0	8.8
ANIONS										
110415SW	Chloride Dissolved	ug/g	50		< 50	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS										
P--TMS20	Phosphorus Total (P)	ug/g	10		855	848	577	694	815	764
METALS TOTAL										
Al-TMS20	Aluminum	ug/g	100		8500	8080	5430	6480	7120	7340
Sb-TMS20	Antimony	ug/g	0.1		0.1	0.2	< 0.1	< 0.1	0.2	0.1
As-TMS20	Arsenic	ug/g	0.2		1.7	1.7	1.2	3.5	7.5	3.5
Ba-TMS20	Barium	ug/g	0.1		84.0	67.7	48.4	64.7	59.4	58.3
Be-TMS20	Beryllium	ug/g	0.1		0.4	0.4	0.2	0.3	0.2	0.3
Bi-TMS20	Bismuth	ug/g	0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05		0.08	0.19	0.10	0.09	0.28	0.13
Ca-TMS20	Calcium	ug/g	100		5860	5520	4350	2130	2850	2880
Cr-TMS20	Chromium	ug/g	1		13	19	9	17	24	19
Co-TMS20	Cobalt	ug/g	0.3		5.9	5.9	4.2	5.8	7.3	6.7
Cu-TMS20	Copper	ug/g	0.5		18.1	20.8	13.0	20.9	36.4	23.9
Fe-TMS20	Iron	ug/g	100		15900	17200	11800	14600	19100	17900
Pb-TMS20	Lead	ug/g	0.1		24.0	57.6	26.2	11.0	48.8	16.1
Mg-TMS20	Magnesium	ug/g	100		5270	4960	3600	4820	5460	5340
Mn-TMS20	Manganese	ug/g	0.2		333	349	283	278	384	314
Hg-TMS20	Mercury	ug/g	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1		0.4	0.5	0.5	0.3	1.0	0.3
Ni-TMS20	Nickel	ug/g	0.8		9.0	10.4	6.0	15.8	22.3	17.3
K--TMS20	Potassium	ug/g	100		1320	1260	907	988	1050	1070
Se-TMS20	Selenium	ug/g	0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05		0.08	0.08	0.07	0.06	0.12	0.07
Na-TMS20	Sodium	ug/g	100		754	552	265	516	319	357
Sr-TMS20	Strontium	ug/g	0.1		105	91.8	43.1	15.0	16.5	18.5
Te-TMS20	Tellurium	ug/g	0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05		0.10	0.10	0.35	0.11	0.11	0.08
Sn-TMS20	Tin	ug/g	0.1		0.3	0.3	0.1	0.1	0.2	0.2
Ti-TMS20	Titanium	ug/g	1		382	455	301	243	240	273
V--TMS20	Vanadium	ug/g	2		35	37	25	28	37	36

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/15	04/11/15	04/11/15	04/11/16	04/11/16	04/11/16

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067727 Client ID : SITE 3 SA1	14067728 SITE 3 SA2	14067729 SITE 3 SA3	14067730 SITE 4 SA1	14067731 SITE 4 SA2	14067732 SITE 4 SA3
Zn-TMS20	Zinc	ug/g	1	45	55	45	38	64	47
Zr-TMS20	Zirconium	ug/g	0.5	5.2	5.9	2.7	1.9	1.8	2.2
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/15	04/11/15	04/11/15	04/11/16	04/11/16	04/11/16

01-Dec-04

ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14067733	14067734	14067735	14067736	14067737	14067738
			Client ID :	SITE 5 SA1	SITE 5 SA2	SITE 5 SA3	SITE 6 SA1	SITE 6 SA2	SITE 6 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	7.4	7.6	7.6	7.6	8.0	7.7
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	82	< 50	< 50	81	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	1570	1250	1300	331	349	370
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	11800	7200	9450	10200	13900	7820
Sb-TMS20	Antimony	ug/g	0.1	0.2	0.4	0.4	0.3	0.7	0.5
As-TMS20	Arsenic	ug/g	0.2	5.1	3.2	3.5	5.1	9.0	7.5
Ba-TMS20	Barium	ug/g	0.1	141	100	132	70.6	72.2	86.6
Be-TMS20	Beryllium	ug/g	0.1	0.4	0.3	0.3	0.4	0.2	0.2
Bi-TMS20	Bismuth	ug/g	0.1	0.3	0.2	0.2	0.4	0.4	0.3
Cd-TMS20	Cadmium	ug/g	0.05	0.52	0.27	0.37	0.09	0.17	0.16
Ca-TMS20	Calcium	ug/g	100	4950	3470	3580	1560	5680	5690
Cr-TMS20	Chromium	ug/g	1	31	27	26	16	11	13
Co-TMS20	Cobalt	ug/g	0.3	11.4	6.2	7.5	8.0	10.1	9.1
Cu-TMS20	Copper	ug/g	0.5	27.0	19.5	22.8	23.7	109	23.6
Fe-TMS20	Iron	ug/g	100	23700	17000	20000	25000	22400	22700
Pb-TMS20	Lead	ug/g	0.1	17.2	82.6	62.8	19.6	31.6	42.4
Mg-TMS20	Magnesium	ug/g	100	6870	5100	5900	5640	7740	6970
Mn-TMS20	Manganese	ug/g	0.2	337	257	319	255	400	388
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.8	0.6	0.9	0.4	0.4	0.4
Ni-TMS20	Nickel	ug/g	0.8	23.8	16.4	17.4	12.1	13.9	12.6
K--TMS20	Potassium	ug/g	100	2410	1620	1980	3770	1440	1760
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.10	0.12	0.12	< 0.05	0.09	0.10
Na-TMS20	Sodium	ug/g	100	762	457	505	248	< 100	133
Sr-TMS20	Strontium	ug/g	0.1	55.4	32.5	33.5	6.3	6.4	12.6
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.18	0.14	0.16	0.30	0.11	0.13
Sn-TMS20	Tin	ug/g	0.1	0.2	0.5	0.4	0.4	0.3	0.2
Ti-TMS20	Titanium	ug/g	1	576	379	476	548	250	289
V--TMS20	Vanadium	ug/g	2	52	35	43	22	22	20

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/16	04/11/16	04/11/16	04/11/17	04/11/17	04/11/17

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067733 Client ID : SITE 5 SA1	14067734 SITE 5 SA2	14067735 SITE 5 SA3	14067736 SITE 6 SA1	14067737 SITE 6 SA2	14067738 SITE 6 SA3
Zn-TMS20	Zinc	ug/g	1	66	80	88	55	66	54
Zr-TMS20	Zirconium	ug/g	0.5	2.6	1.7	1.9	1.7	1.8	1.5
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/11/16	04/11/16	04/11/16	04/11/17	04/11/17	04/11/17

01-Dec-04
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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14067739	14067740	14067741	14067742	14067743	14067744
	Client ID :	SITE 7 SA1	SITE 7 SA2	SITE 7 SA3	SITE 8 SA1	SITE 8 SA2	SITE 8 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.1	9.5	9.0	9.2	10.1 (1)	8.6
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	< 50	100	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	494	442	500	506	479	533
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	4360	4830	4700	6810	5390	5140
Sb-TMS20	Antimony	ug/g	0.1	0.3	0.3	0.4	1.0	0.8	1.0
As-TMS20	Arsenic	ug/g	0.2	4.5	3.5	4.2	22.6	16.0	16.7
Ba-TMS20	Barium	ug/g	0.1	69.3	46.7	76.3	130	78.3	87.1
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.2	0.2	0.3	0.3	0.3
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.14	0.14	0.19	0.11	0.19	0.11
Ca-TMS20	Calcium	ug/g	100	75700	74900	79400	145000	180000	184000
Cr-TMS20	Chromium	ug/g	1	8	6	8	15	22	17
Co-TMS20	Cobalt	ug/g	0.3	4.8	4.5	4.8	6.2	6.4	5.3
Cu-TMS20	Copper	ug/g	0.5	10.4	11.3	19.2	12.2	9.8	9.0
Fe-TMS20	Iron	ug/g	100	12100	13300	13800	15800	13800	12400
Pb-TMS20	Lead	ug/g	0.1	18.9	25.3	60.8	45.3	99.7	61.2
Mg-TMS20	Magnesium	ug/g	100	24200	25600	23600	28300	33000	27400
Mn-TMS20	Manganese	ug/g	0.2	285	267	314	374	386	426
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.14	0.09	0.15
Mo-TMS20	Molybdenum	ug/g	0.1	1.2	0.6	0.7	0.5	0.4	0.4
Ni-TMS20	Nickel	ug/g	0.8	11.2	11.5	11.6	14.1	11.8	16.3
K--TMS20	Potassium	ug/g	100	457	546	495	567	458	418
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.06	0.20	0.05
Na-TMS20	Sodium	ug/g	100	107	158	154	249	552	152
Sr-TMS20	Strontium	ug/g	0.1	96.4	97.3	96.3	245	426	375
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.12	0.06	0.07	0.05	< 0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Ti-TMS20	Titanium	ug/g	1	59	60	63	31	32	26
V--TMS20	Vanadium	ug/g	2	8	8	8	9	8	7

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067739 Client ID : SITE 7 SA1	14067740 SITE 7 SA2	14067741 SITE 7 SA3	14067742 SITE 8 SA1	14067743 SITE 8 SA2	14067744 SITE 8 SA3
Zn-TMS20	Zinc	ug/g	1	36	40	44	36	37	33
Zr-TMS20	Zirconium	ug/g	0.5	2.2	2.1	2.4	2.6	2.4	1.9
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17

Result comments and/or text results :

(1) pH result greater than the highest calibration standard of pH10.

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

		Lab ID :	14067745	14067746	14067747	14067748	14067749	14067750
		Client ID :	SITE 9 SA1	SITE 9 SA2	SITE 9 SA3	SITE 10 SA1	SITE 10 SA2	SITE 10 SA3
Sparcode	**Parameter**	**Unit**	**MDL**					
PHYSICAL								
0004DI02	pH (DI 1:2)	pH units	0.1	7.5	6.4	6.0	10.2 (1)	10.2 (1)	8.4
ANIONS								
110415SW	Chloride Dissolved	ug/g	50	160	55	50	130	64	< 50
PHOSPHORUS								
P--TMS20	Phosphorus Total (P)	ug/g	10	679	317	319	763	752	828
METALS TOTAL								
Al-TMS20	Aluminum	ug/g	100	10600	4600	4250	10200	9550	8900
Sb-TMS20	Antimony	ug/g	0.1	< 0.1	< 0.1	< 0.1	0.4	0.5	0.4
As-TMS20	Arsenic	ug/g	0.2	2.5	0.9	1.1	5.3	4.9	4.9
Ba-TMS20	Barium	ug/g	0.1	98.7	29.6	31.5	75.5	68.9	85.2
Be-TMS20	Beryllium	ug/g	0.1	0.1	< 0.1	< 0.1	0.2	0.2	0.3
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.50	0.33	0.39
Ca-TMS20	Calcium	ug/g	100	2430	1150	1050	42000	46900	41000
Cr-TMS20	Chromium	ug/g	1	25	7	8	75	69	67
Co-TMS20	Cobalt	ug/g	0.3	8.4	3.2	3.1	16.2	13.8	13.6
Cu-TMS20	Copper	ug/g	0.5	30.7	12.6	12.4	48.8	49.0	64.3
Fe-TMS20	Iron	ug/g	100	17200	8110	8190	28100	24100	24800
Pb-TMS20	Lead	ug/g	0.1	9.8	4.8	6.2	58.6	34.7	27.7
Mg-TMS20	Magnesium	ug/g	100	6900	2730	2520	20200	15700	15100
Mn-TMS20	Manganese	ug/g	0.2	228	126	114	521	461	484
Hg-TMS20	Mercury	ug/g	0.05	0.06	< 0.05	< 0.05	0.06	0.36	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.4	0.1	0.2	1.5	1.2	1.2
Ni-TMS20	Nickel	ug/g	0.8	10.2	4.3	4.4	113	96.6	81.9
K--TMS20	Potassium	ug/g	100	1590	729	812	712	622	817
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.12	0.10	0.09
Na-TMS20	Sodium	ug/g	100	1160	264	236	1400	1070	386
Sr-TMS20	Strontium	ug/g	0.1	22.3	8.4	6.6	94.2	85.5	94.6
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.09	< 0.05	< 0.05	0.10	0.16	0.35
Sn-TMS20	Tin	ug/g	0.1	0.1	< 0.1	< 0.1	0.2	0.2	0.2
Ti-TMS20	Titanium	ug/g	1	774	220	241	428	417	389
V--TMS20	Vanadium	ug/g	2	41	17	17	45	40	44
		Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
		Sampled on:	04/11/15	04/11/15	04/11/15	04/11/15	04/11/15	04/11/15

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067745 Client ID : SITE 9 SA1	14067746 SITE 9 SA2	14067747 SITE 9 SA3	14067748 SITE 10 SA1	14067749 SITE 10 SA2	14067750 SITE 10 SA3
Zn-TMS20	Zinc	ug/g	1	43	19	18	79	66	68
Zr-TMS20	Zirconium	ug/g	0.5	0.9	< 0.5	< 0.5	6.1	5.6	4.2
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/11/15	04/11/15	04/11/15	04/11/15	04/11/15	04/11/15

Result comments and/or text results :

(1) pH result greater than the highest calibration standard of pH10.

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14067751	14067752	14067753	14067754	14067755	14067756
	Client ID :	SITE 11 SA1	SITE 11 SA2	SITE 11 SA3	SITE 12 SA1	SITE 12 SA2	SITE 12 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.7	8.6	8.1	10.0	9.6	9.6
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	130	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	1120	1180	1420	840	778	861
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	12500	13700	14300	10700	10400	11600
Sb-TMS20	Antimony	ug/g	0.1	0.6	0.4	0.3	0.3	0.6	0.3
As-TMS20	Arsenic	ug/g	0.2	6.7	6.1	6.7	6.1	5.2	5.2
Ba-TMS20	Barium	ug/g	0.1	106	91.4	137	64.4	57.7	60.8
Be-TMS20	Beryllium	ug/g	0.1	0.3	0.3	0.4	0.2	0.1	0.1
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.19	0.20	0.17	0.45	0.30	0.37
Ca-TMS20	Calcium	ug/g	100	21100	21600	8880	13000	9570	15900
Cr-TMS20	Chromium	ug/g	1	37	32	48	25	25	22
Co-TMS20	Cobalt	ug/g	0.3	15.0	14.1	13.2	11.2	9.9	9.8
Cu-TMS20	Copper	ug/g	0.5	132	114	66.5	42.2	42.7	42.3
Fe-TMS20	Iron	ug/g	100	32400	31100	28300	25500	24300	26200
Pb-TMS20	Lead	ug/g	0.1	58.7	38.3	30.0	23.6	21.2	5.1
Mg-TMS20	Magnesium	ug/g	100	15700	13400	10600	8640	8510	9190
Mn-TMS20	Manganese	ug/g	0.2	622	654	668	519	410	439
Hg-TMS20	Mercury	ug/g	0.05	0.11	0.12	0.07	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.8	0.9	0.7	1.4	1.2	1.1
Ni-TMS20	Nickel	ug/g	0.8	50.5	39.7	42.9	25.1	23.7	20.9
K--TMS20	Potassium	ug/g	100	1020	1270	2310	1670	1510	1710
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.10	0.09	0.11	0.17	0.16	0.24
Na-TMS20	Sodium	ug/g	100	1330	814	606	553	310	231
Sr-TMS20	Strontium	ug/g	0.1	86.4	88.0	69.0	37.1	30.1	30.8
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.08	0.08	0.11	0.12	0.14	0.12
Sn-TMS20	Tin	ug/g	0.1	0.3	0.4	0.3	0.1	0.2	0.1
Ti-TMS20	Titanium	ug/g	1	550	593	583	379	400	422
V--TMS20	Vanadium	ug/g	2	83	81	82	40	40	42

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/15	04/11/15	04/11/15	04/11/16	04/11/16	04/11/16

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14067751	14067752	14067753	14067754	14067755	14067756
			Client ID :	SITE 11 SA1	SITE 11 SA2	SITE 11 SA3	SITE 12 SA1	SITE 12 SA2	SITE 12 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
Zn-TMS20	Zinc	ug/g	1	76	84	86	70	67	62
Zr-TMS20	Zirconium	ug/g	0.5	5.0	6.4	6.8	3.5	3.3	3.4
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/15	04/11/15	04/11/15	04/11/16	04/11/16	04/11/16

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14067757	14067758	14067759	14067760	14067761	14067762
			Client ID :	SITE 13 SA1	SITE 13 SA2	SITE 13 SA3	SITE 14 SA1	SITE 14 SA2	SITE 14 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	8.4	8.4	7.7	9.9	8.3	7.6
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	63	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	1230	1210	1100	794	957	954
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	14300	14400	24900	8890	9740	10200
Sb-TMS20	Antimony	ug/g	0.1	0.1	0.1	< 0.1	0.3	0.3	0.2
As-TMS20	Arsenic	ug/g	0.2	2.3	2.0	1.2	3.6	2.2	2.1
Ba-TMS20	Barium	ug/g	0.1	56.6	71.8	73.9	94.7	84.2	76.8
Be-TMS20	Beryllium	ug/g	0.1	0.4	0.4	0.7	0.3	0.3	0.2
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.12	0.12	0.07	0.28	0.25	0.23
Ca-TMS20	Calcium	ug/g	100	9750	11200	8590	13500	8730	7390
Cr-TMS20	Chromium	ug/g	1	26	27	44	37	40	36
Co-TMS20	Cobalt	ug/g	0.3	17.1	17.0	29.5	14.8	12.9	13.1
Cu-TMS20	Copper	ug/g	0.5	33.4	34.0	41.3	45.5	72.6	54.1
Fe-TMS20	Iron	ug/g	100	32800	31200	47600	29100	26200	27700
Pb-TMS20	Lead	ug/g	0.1	7.0	11.7	4.6	20.8	34.6	105
Mg-TMS20	Magnesium	ug/g	100	13100	13300	22600	10800	12000	11900
Mn-TMS20	Manganese	ug/g	0.2	501	494	624	593	459	432
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.23	0.07	0.07
Mo-TMS20	Molybdenum	ug/g	0.1	0.5	0.5	0.4	1.3	0.9	0.9
Ni-TMS20	Nickel	ug/g	0.8	51.2	57.2	112	58.5	55.2	54.2
K--TMS20	Potassium	ug/g	100	839	1390	2250	759	1180	1270
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.07	0.06	0.08	0.08	0.08	0.05
Na-TMS20	Sodium	ug/g	100	1160	1170	510	893	555	577
Sr-TMS20	Strontium	ug/g	0.1	80.0	118	171	62.2	39.5	45.0
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.09	0.08	0.13	1.65	0.06	0.05
Sn-TMS20	Tin	ug/g	0.1	0.3	0.4	0.5	6.2	0.3	0.3
Ti-TMS20	Titanium	ug/g	1	642	682	515	478	531	571
V--TMS20	Vanadium	ug/g	2	52	49	43	49	46	45
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/16	04/11/16	04/11/16	04/11/16	04/11/16	04/11/16

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067757	14067758	14067759	14067760	14067761	14067762
				Client ID : SITE 13 SA1	SITE 13 SA2	SITE 13 SA3	SITE 14 SA1	SITE 14 SA2	SITE 14 SA3
Zn-TMS20	Zinc	ug/g	1	62	59	73	70	75	82
Zr-TMS20	Zirconium	ug/g	0.5	9.8	10.3	26.5	8.4	6.3	7.4
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/11/16	04/11/16	04/11/16	04/11/16	04/11/16	04/11/16

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14067763	14067764	14067765	14067766	14067767	14067768
			Client ID :	SITE 15 SA1	SITE 15 SA2	SITE 15 SA3	SITE 16 SA1	SITE 16 SA2	SITE 16 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.5	7.8	10.1 (1)	8.1	8.8	8.1
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	56	< 50	< 50	< 50	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	669	785	987	613	521	1770
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	8080	9000	7600	7130	5600	7080
Sb-TMS20	Antimony	ug/g	0.1	0.1	0.4	0.4	0.4	0.8	0.8
As-TMS20	Arsenic	ug/g	0.2	2.5	2.2	4.5	3.7	3.9	4.3
Ba-TMS20	Barium	ug/g	0.1	50.8	63.6	106	57.9	52.9	100
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.2	0.3	0.2	0.1	0.3
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.10	0.16	0.15	0.28	0.43	0.70
Ca-TMS20	Calcium	ug/g	100	4260	7540	25500	3880	4200	6430
Cr-TMS20	Chromium	ug/g	1	23	30	24	22	19	30
Co-TMS20	Cobalt	ug/g	0.3	9.3	11.1	13.1	8.7	8.4	10.9
Cu-TMS20	Copper	ug/g	0.5	27.5	28.8	29.6	42.0	50.3	68.6
Fe-TMS20	Iron	ug/g	100	20900	22800	28900	19400	18700	21400
Pb-TMS20	Lead	ug/g	0.1	5.3	33.2	3.7	41.1	41.2	93.5
Mg-TMS20	Magnesium	ug/g	100	9060	11600	10100	6140	5140	5600
Mn-TMS20	Manganese	ug/g	0.2	302	431	759	400	399	478
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	0.11	0.06	0.05	0.61
Mo-TMS20	Molybdenum	ug/g	0.1	0.4	0.5	0.9	1.2	1.7	2.9
Ni-TMS20	Nickel	ug/g	0.8	37.5	55.6	51.4	28.5	28.6	35.0
K--TMS20	Potassium	ug/g	100	769	746	420	557	538	755
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	0.06	0.06	0.10	0.12
Na-TMS20	Sodium	ug/g	100	868	369	596	367	362	386
Sr-TMS20	Strontium	ug/g	0.1	21.0	28.2	93.2	23.4	28.1	31.1
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	0.06	0.13	0.11	0.09	0.10
Sn-TMS20	Tin	ug/g	0.1	0.2	0.3	0.2	0.2	0.2	0.4
Ti-TMS20	Titanium	ug/g	1	367	392	247	353	267	339
V--TMS20	Vanadium	ug/g	2	35	38	40	35	27	36

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/16	04/11/16	04/11/16	04/11/16	04/11/16	04/11/16

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067763	14067764	14067765	14067766	14067767	14067768
				Client ID : SITE 15 SA1	SITE 15 SA2	SITE 15 SA3	SITE 16 SA1	SITE 16 SA2	SITE 16 SA3
Zn-TMS20	Zinc	ug/g	1	45	64	57	91	89	102
Zr-TMS20	Zirconium	ug/g	0.5	4.6	4.3	4.2	3.8	3.2	4.3
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/11/16	04/11/16	04/11/16	04/11/16	04/11/16	04/11/16

Result comments and/or text results :

(1) pH result greater than the highest calibration standard of pH10.

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14067769	14067770	14067771	14067772	14067773	14067774
			Client ID :	SITE 17 SA1	SITE 17 SA2	SITE 17 SA3	SITE 18 SA1	SITE 18 SA2	SITE 18 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.0	7.8	6.9	8.0	7.8	8.4
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	190	80	< 50	< 50
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	680	859	926	634	724	697
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	8560	10100	12800	10700	11200	11100
Sb-TMS20	Antimony	ug/g	0.1	0.6	0.9	1.5	0.4	0.7	0.7
As-TMS20	Arsenic	ug/g	0.2	5.3	7.4	9.4	3.3	6.2	6.5
Ba-TMS20	Barium	ug/g	0.1	54.2	73.6	95.3	67.6	54.3	57.4
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.3	0.4	0.2	0.2	0.3
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.37	0.63	1.05	0.25	0.30	0.29
Ca-TMS20	Calcium	ug/g	100	4900	14400	12500	4130	6500	7220
Cr-TMS20	Chromium	ug/g	1	26	38	41	26	41	26
Co-TMS20	Cobalt	ug/g	0.3	10.0	11.2	13.4	8.9	11.9	10.6
Cu-TMS20	Copper	ug/g	0.5	31.2	37.6	58.5	27.3	32.9	35.8
Fe-TMS20	Iron	ug/g	100	20700	24400	28400	22200	23500	24100
Pb-TMS20	Lead	ug/g	0.1	26.1	39.8	39.1	16.6	10.0	11.3
Mg-TMS20	Magnesium	ug/g	100	6270	9220	9510	7010	7550	7040
Mn-TMS20	Manganese	ug/g	0.2	399	524	347	406	466	446
Hg-TMS20	Mercury	ug/g	0.05	0.06	0.07	0.31	0.08	< 0.05	0.06
Mo-TMS20	Molybdenum	ug/g	0.1	1.1	1.4	1.5	0.8	1.1	1.2
Ni-TMS20	Nickel	ug/g	0.8	32.5	36.7	47.9	33.3	33.6	29.0
K--TMS20	Potassium	ug/g	100	598	877	811	687	649	581
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.08	0.12	0.17	0.07	0.10	0.12
Na-TMS20	Sodium	ug/g	100	778	351	596	498	290	295
Sr-TMS20	Strontium	ug/g	0.1	22.5	65.8	55.6	11.7	21.3	25.4
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.32	0.16	0.22	0.11	0.07	0.07
Sn-TMS20	Tin	ug/g	0.1	0.3	0.2	0.3	0.2	0.2	0.2
Ti-TMS20	Titanium	ug/g	1	396	444	476	494	410	389
V--TMS20	Vanadium	ug/g	2	38	52	59	40	37	36
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/17	04/11/16	04/11/16	04/11/17	04/11/17	04/11/17

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14067769	14067770	14067771	14067772	14067773	14067774
			Client ID :	SITE 17 SA1	SITE 17 SA2	SITE 17 SA3	SITE 18 SA1	SITE 18 SA2	SITE 18 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
Zn-TMS20	Zinc	ug/g	1	96	105	141	66	62	64
Zr-TMS20	Zirconium	ug/g	0.5	3.0	4.0	5.4	3.5	3.5	3.1
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/17	04/11/16	04/11/16	04/11/17	04/11/17	04/11/17

ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067775 Client ID : SITE 19 SA1	14067776 SITE 19 SA2	14067777 SITE 19 SA3	14067778 SITE 20 SA1	14067779 SITE 20 SA2	14067780 SITE 20 SA3
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.9	9.6	9.7	9.4	9.3	9.1
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	260	400	340
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	443	300	296	483	449	574
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	5630	4310	4090	8640	7280	8250
Sb-TMS20	Antimony	ug/g	0.1	< 0.1	< 0.1	< 0.1	0.2	0.2	0.2
As-TMS20	Arsenic	ug/g	0.2	1.4	0.9	1.1	6.8	11.0	6.6
Ba-TMS20	Barium	ug/g	0.1	41.1	25.8	28.0	41.7	47.3	43.1
Be-TMS20	Beryllium	ug/g	0.1	0.3	0.2	0.2	0.2	0.2	0.1
Bi-TMS20	Bismuth	ug/g	0.1	0.2	0.1	0.2	0.2	0.2	0.2
Cd-TMS20	Cadmium	ug/g	0.05	0.16	0.12	0.12	0.18	0.20	0.24
Ca-TMS20	Calcium	ug/g	100	12200	8470	14300	18500	21400	17100
Cr-TMS20	Chromium	ug/g	1	15	10	10	21	17	18
Co-TMS20	Cobalt	ug/g	0.3	6.9	4.4	4.3	9.5	9.0	9.5
Cu-TMS20	Copper	ug/g	0.5	23.0	13.3	13.3	21.4	20.0	22.3
Fe-TMS20	Iron	ug/g	100	16900	12900	12400	23200	24500	22500
Pb-TMS20	Lead	ug/g	0.1	31.5	19.6	13.7	24.7	21.4	22.5
Mg-TMS20	Magnesium	ug/g	100	3570	2700	2780	8570	7090	7220
Mn-TMS20	Manganese	ug/g	0.2	242	181	178	366	397	411
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.6	0.4	0.4	0.7	0.6	0.7
Ni-TMS20	Nickel	ug/g	0.8	16.0	10.9	10.9	25.4	23.6	24.4
K--TMS20	Potassium	ug/g	100	1270	942	1010	1180	988	1110
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.08	0.05	0.06	0.07	0.08	0.12
Na-TMS20	Sodium	ug/g	100	376	219	185	462	549	543
Sr-TMS20	Strontium	ug/g	0.1	49.1	36.0	53.5	51.5	67.8	52.8
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.10	0.07	0.07	0.10	0.07	0.09
Sn-TMS20	Tin	ug/g	0.1	0.2	0.2	0.1	0.2	0.2	0.2
Ti-TMS20	Titanium	ug/g	1	241	172	173	223	172	180
V--TMS20	Vanadium	ug/g	2	15	11	10	19	13	14
				Matrix : Soil **Sampled on:** 04/11/17	Soil 04/11/17	Soil 04/11/17	Soil 04/11/17	Soil 04/11/17	Soil 04/11/17

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067775 Client ID : SITE 19 SA1	14067776 SITE 19 SA2	14067777 SITE 19 SA3	14067778 SITE 20 SA1	14067779 SITE 20 SA2	14067780 SITE 20 SA3
Zn-TMS20	Zinc	ug/g	1	54	46	42	61	59	64
Zr-TMS20	Zirconium	ug/g	0.5	1.0	0.5	< 0.5	1.2	1.0	1.0
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14067781	14067782	14067783	14067784	14067785	14067786
	Client ID :	SITE 21 SA1	SITE 21 SA2	SITE 21 SA3	SITE 22 SA1	SITE 22 SA2	SITE 22 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	9.2	9.1	8.1	9.4	9.6	8.0
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	100	< 50	84
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	258	301	365	429	379	655
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	2320	2850	2230	5940	4900	4700
Sb-TMS20	Antimony	ug/g	0.1	0.2	0.2	0.2	< 0.1	< 0.1	0.4
As-TMS20	Arsenic	ug/g	0.2	1.8	2.4	1.8	1.5	0.5	2.1
Ba-TMS20	Barium	ug/g	0.1	219	228	296	52.2	39.7	46.7
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.1	0.1	0.2	0.2	0.2
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.08	0.12	0.09	0.18	0.12	0.36
Ca-TMS20	Calcium	ug/g	100	123000	99300	97000	2530	2180	7930
Cr-TMS20	Chromium	ug/g	1	6	7	9	14	14	19
Co-TMS20	Cobalt	ug/g	0.3	2.4	2.7	2.4	4.7	3.7	5.0
Cu-TMS20	Copper	ug/g	0.5	9.4	6.2	6.1	13.7	11.6	17.6
Fe-TMS20	Iron	ug/g	100	7050	8320	7530	10900	9870	12900
Pb-TMS20	Lead	ug/g	0.1	8.2	20.9	19.5	32.8	41.6	50.7
Mg-TMS20	Magnesium	ug/g	100	31200	24300	20700	3500	3120	4120
Mn-TMS20	Manganese	ug/g	0.2	209	205	183	185	158	208
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.8	0.7	0.7	0.5	0.3	0.7
Ni-TMS20	Nickel	ug/g	0.8	7.8	12.5	11.7	14.3	11.2	14.4
K--TMS20	Potassium	ug/g	100	329	258	217	1290	1230	1050
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	< 0.05	< 0.05	< 0.05	0.07	< 0.05	0.10
Na-TMS20	Sodium	ug/g	100	< 100	< 100	< 100	616	368	483
Sr-TMS20	Strontium	ug/g	0.1	145	136	136	17.7	16.0	64.6
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	< 0.1	0.1	0.1	0.3	0.2	0.5
Ti-TMS20	Titanium	ug/g	1	19	15	11	313	281	309
V--TMS20	Vanadium	ug/g	2	6	6	7	24	18	26

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/17	04/11/17	04/11/17	04/11/18	04/11/18	04/11/18

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

			Lab ID :	14067781	14067782	14067783	14067784	14067785	14067786
			Client ID :	SITE 21 SA1	SITE 21 SA2	SITE 21 SA3	SITE 22 SA1	SITE 22 SA2	SITE 22 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
Zn-TMS20	Zinc	ug/g	1	20	39	28	38	36	81
Zr-TMS20	Zirconium	ug/g	0.5	1.9	1.4	1.0	3.8	1.6	2.1
			Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
			Sampled on:	04/11/17	04/11/17	04/11/17	04/11/18	04/11/18	04/11/18

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14067787	14067788	14067789	14067790	14067791	14067792
	Client ID :	SITE 23 SA1	SITE 23 SA2	SITE 23 SA3	SITE 24 SA1	SITE 24 SA2	SITE 24 SA3
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	7.4	8.0	8.5	10.1 (1)	9.9	8.3
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	400	< 50	< 50	65	< 50	92
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	576	372	429	614	616	699
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	5810	3310	5280	8280	8320	8660
Sb-TMS20	Antimony	ug/g	0.1	0.2	< 0.1	0.1	0.3	0.2	0.3
As-TMS20	Arsenic	ug/g	0.2	5.2	1.0	1.4	2.9	3.1	2.8
Ba-TMS20	Barium	ug/g	0.1	83.9	42.5	97.4	43.3	40.9	59.7
Be-TMS20	Beryllium	ug/g	0.1	0.1	0.1	< 0.1	0.2	0.2	0.2
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1
Cd-TMS20	Cadmium	ug/g	0.05	0.20	0.07	0.06	0.19	0.16	0.13
Ca-TMS20	Calcium	ug/g	100	3380	1840	2540	9510	7180	9020
Cr-TMS20	Chromium	ug/g	1	12	9	14	12	12	14
Co-TMS20	Cobalt	ug/g	0.3	5.0	3.0	3.7	8.8	8.9	9.2
Cu-TMS20	Copper	ug/g	0.5	25.3	17.1	24.1	27.0	25.0	33.7
Fe-TMS20	Iron	ug/g	100	14300	9260	10800	22600	22800	22200
Pb-TMS20	Lead	ug/g	0.1	33.0	5.1	3.7	11.7	6.6	6.1
Mg-TMS20	Magnesium	ug/g	100	3940	2500	2900	6980	6870	6630
Mn-TMS20	Manganese	ug/g	0.2	216	140	170	439	423	417
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mo-TMS20	Molybdenum	ug/g	0.1	0.9	0.6	0.3	0.6	0.5	0.6
Ni-TMS20	Nickel	ug/g	0.8	10.7	5.4	6.0	10.5	9.8	12.0
K--TMS20	Potassium	ug/g	100	1930	994	1050	450	334	507
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ag-TMS20	Silver	ug/g	0.05	0.07	< 0.05	< 0.05	0.06	< 0.05	0.05
Na-TMS20	Sodium	ug/g	100	625	219	305	497	398	487
Sr-TMS20	Strontium	ug/g	0.1	24.3	13.7	16.9	25.9	21.4	43.7
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tl-TMS20	Thallium	ug/g	0.05	0.18	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sn-TMS20	Tin	ug/g	0.1	0.3	0.2	0.1	0.3	0.2	0.2
Ti-TMS20	Titanium	ug/g	1	407	225	345	382	300	373
V--TMS20	Vanadium	ug/g	2	33	22	32	48	47	50

Matrix :	Soil	Soil	Soil	Soil	Soil	Soil
Sampled on:	04/11/18	04/11/18	04/11/18	04/11/18	04/11/18	04/11/18

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067787	14067788	14067789	14067790	14067791	14067792
				Client ID : SITE 23 SA1	SITE 23 SA2	SITE 23 SA3	SITE 24 SA1	SITE 24 SA2	SITE 24 SA3
Zn-TMS20	Zinc	ug/g	1	50	32	36	54	51	54
Zr-TMS20	Zirconium	ug/g	0.5	2.8	1.4	2.3	3.6	2.6	4.3
				Matrix : Soil	Soil	Soil	Soil	Soil	Soil
				Sampled on: 04/11/18	04/11/18	04/11/18	04/11/18	04/11/18	04/11/18

Result comments and/or text results :

(1) pH result greater than the highest calibration standard of pH10.

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

	Lab ID :	14067793	14067794	14067795	14067796	14067797	14067800
	Client ID :	SITE 25 SA1	SITE 25 SA2	SITE 25 SA3	SITE 26 SA1	SITE 27 SA1	SITE 26
Sparcode	**Parameter**	**Unit**	**MDL**						
PHYSICAL									
0004DI02	pH (DI 1:2)	pH units	0.1	7.4	7.3	7.4	9.3	8.1	---
ANIONS									
110415SW	Chloride Dissolved	ug/g	50	< 50	< 50	< 50	630	260	---
11041334	Chloride Dissolved	mg/L	0.5	---	---	---	---	---	583
PHOSPHORUS									
P--TMS20	Phosphorus Total (P)	ug/g	10	594	647	416	837	384	---
METALS TOTAL									
Al-TMS20	Aluminum	ug/g	100	5000	7470	4810	11000	6430	---
Sb-TMS20	Antimony	ug/g	0.1	0.2	0.3	0.3	0.4	0.2	---
As-TMS20	Arsenic	ug/g	0.2	2.6	2.0	2.5	9.8	4.9	---
Ba-TMS20	Barium	ug/g	0.1	62.7	46.9	60.0	70.5	13.3	---
Be-TMS20	Beryllium	ug/g	0.1	0.2	0.1	0.1	0.3	< 0.1	---
Bi-TMS20	Bismuth	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	---
Cd-TMS20	Cadmium	ug/g	0.05	0.18	0.15	0.20	0.30	0.09	---
Ca-TMS20	Calcium	ug/g	100	15600	4830	9130	9220	51400	---
Cr-TMS20	Chromium	ug/g	1	19	20	21	38	13	---
Co-TMS20	Cobalt	ug/g	0.3	5.8	8.0	5.4	14.1	8.0	---
Cu-TMS20	Copper	ug/g	0.5	14.8	19.8	13.3	43.2	17.6	---
Fe-TMS20	Iron	ug/g	100	13200	16000	13200	24900	21200	---
Pb-TMS20	Lead	ug/g	0.1	35.0	20.6	51.2	13.9	28.6	---
Mg-TMS20	Magnesium	ug/g	100	4740	4980	3700	9700	5110	---
Mn-TMS20	Manganese	ug/g	0.2	250	303	238	491	466	---
Hg-TMS20	Mercury	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	---
Mo-TMS20	Molybdenum	ug/g	0.1	0.7	0.8	0.7	1.0	0.4	---
Ni-TMS20	Nickel	ug/g	0.8	18.5	25.8	17.8	34.7	19.8	---
K--TMS20	Potassium	ug/g	100	298	219	305	1650	325	---
Se-TMS20	Selenium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---
Ag-TMS20	Silver	ug/g	0.05	0.07	0.05	0.05	0.20	0.09	---
Na-TMS20	Sodium	ug/g	100	115	109	< 100	1940	220	---
Sr-TMS20	Strontium	ug/g	0.1	76.4	16.4	35.4	55.3	306	---
Te-TMS20	Tellurium	ug/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	---
Tl-TMS20	Thallium	ug/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	---
Sn-TMS20	Tin	ug/g	0.1	0.2	0.1	0.2	0.2	0.1	---
Ti-TMS20	Titanium	ug/g	1	221	361	272	694	32	---

Matrix :	Soil	Soil	Soil	Soil	Soil	Water
Sampled on:	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067793	14067794	14067795	14067796	14067797	14067800
				Client ID : SITE 25 SA1	SITE 25 SA2	SITE 25 SA3	SITE 26 SA1	SITE 27 SA1	SITE 26
V--TMS20	Vanadium	ug/g	2	18	30	20	57	6	---
Zn-TMS20	Zinc	ug/g	1	46	41	36	63	44	---
Zr-TMS20	Zirconium	ug/g	0.5	2.9	3.9	2.4	7.2	1.2	---
				Matrix : Soil	Soil	Soil	Soil	Soil	Water
				Sampled on: 04/11/17	04/11/17	04/11/17	04/11/17	04/11/17	04/11/17

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ANALYTICAL REPORT

Client : JACQUES WHITFORD
Project : BCV61843

Sparcode	Parameter	Unit	MDL	Lab ID : 14067801 Client ID : SITE 8	14067802 SITE 4	14067803 SITE 21
ANIONS						
11041334	Chloride Dissolved	mg/L	0.5	8.3	3.5	< 0.5
				Matrix : Water **Sampled on:** 04/11/17 16:00	Water 04/11/15 16:00	Water 04/11/17 16:00

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DUPLICATE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
pH (DI 1:2)	SITE 3 SA1	14067727	9.9	9.7	0.1	pH units	2.04
Silver	SITE 3 SA2	14067728	0.08	0.07	0.05	ug/g	13.33
Aluminum	SITE 3 SA2	14067728	8080	7540	100	ug/g	6.91
Arsenic	SITE 3 SA2	14067728	1.7	1.7	0.2	ug/g	0.00
Barium	SITE 3 SA2	14067728	67.7	66.7	0.1	ug/g	1.49
Beryllium	SITE 3 SA2	14067728	0.4	0.3	0.1	ug/g	28.57
Bismuth	SITE 3 SA2	14067728	< 0.1	< 0.1	0.1	ug/g	0.00
Calcium	SITE 3 SA2	14067728	5520	5380	100	ug/g	2.57
Cadmium	SITE 3 SA2	14067728	0.19	0.18	0.05	ug/g	5.41
Cobalt	SITE 3 SA2	14067728	5.9	5.9	0.3	ug/g	0.00
Chromium	SITE 3 SA2	14067728	19	19	1	ug/g	0.00
Copper	SITE 3 SA2	14067728	20.8	20.3	0.5	ug/g	2.43
Iron	SITE 3 SA2	14067728	17200	16500	100	ug/g	4.15
Potassium	SITE 3 SA2	14067728	1260	1270	100	ug/g	-0.79
Magnesium	SITE 3 SA2	14067728	4960	4790	100	ug/g	3.49
Manganese	SITE 3 SA2	14067728	349	345	0.2	ug/g	1.15
Molybdenum	SITE 3 SA2	14067728	0.5	0.5	0.1	ug/g	0.00
Sodium	SITE 3 SA2	14067728	552	559	100	ug/g	-1.26
Nickel	SITE 3 SA2	14067728	10.4	10.2	0.8	ug/g	1.94
Phosphorus Total (P)	SITE 3 SA2	14067728	848	850	10	ug/g	-0.24
Lead	SITE 3 SA2	14067728	57.6	57.0	0.1	ug/g	1.05
Antimony	SITE 3 SA2	14067728	0.2	0.2	0.1	ug/g	0.00
Selenium	SITE 3 SA2	14067728	< 0.5	< 0.5	0.5	ug/g	0.00
Tin	SITE 3 SA2	14067728	0.3	0.4	0.1	ug/g	-28.57
Strontium	SITE 3 SA2	14067728	91.8	90.0	0.1	ug/g	1.98
Tellurium	SITE 3 SA2	14067728	< 0.1	< 0.1	0.1	ug/g	0.00
Titanium	SITE 3 SA2	14067728	455	444	1	ug/g	2.45
Thallium	SITE 3 SA2	14067728	0.10	0.10	0.05	ug/g	0.00
Vanadium	SITE 3 SA2	14067728	37	37	2	ug/g	0.00
Zinc	SITE 3 SA2	14067728	55	54	1	ug/g	1.83
Zirconium	SITE 3 SA2	14067728	5.9	5.8	0.5	ug/g	1.71
Mercury	SITE 3 SA2	14067728	< 0.05	< 0.05	0.05	ug/g	0.00
Chloride Dissolved	SITE 6 SA3	14067738	< 50	< 50	50	ug/g	0.00
pH (DI 1:2)	SITE 9 SA3	14067747	6.0	5.9	0.1	pH units	1.68
Silver	SITE 10 SA1	14067748	0.12	0.11	0.05	ug/g	8.70
Aluminum	SITE 10 SA1	14067748	10200	10200	100	ug/g	0.00
Arsenic	SITE 10 SA1	14067748	5.3	5.2	0.2	ug/g	1.90
Barium	SITE 10 SA1	14067748	75.5	73.4	0.1	ug/g	2.82

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DUPLICATE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
Beryllium	SITE 10 SA1	14067748	0.2	0.3	0.1	ug/g	-40.00
Bismuth	SITE 10 SA1	14067748	< 0.1	< 0.1	0.1	ug/g	0.00
Calcium	SITE 10 SA1	14067748	42000	40100	100	ug/g	4.63
Cadmium	SITE 10 SA1	14067748	0.50	0.49	0.05	ug/g	2.02
Cobalt	SITE 10 SA1	14067748	16.2	15.9	0.3	ug/g	1.87
Chromium	SITE 10 SA1	14067748	75	74	1	ug/g	1.34
Copper	SITE 10 SA1	14067748	48.8	48.5	0.5	ug/g	0.62
Iron	SITE 10 SA1	14067748	28100	27600	100	ug/g	1.80
Potassium	SITE 10 SA1	14067748	712	713	100	ug/g	-0.14
Magnesium	SITE 10 SA1	14067748	20200	19100	100	ug/g	5.60
Manganese	SITE 10 SA1	14067748	521	514	0.2	ug/g	1.35
Molybdenum	SITE 10 SA1	14067748	1.5	1.4	0.1	ug/g	6.90
Sodium	SITE 10 SA1	14067748	1400	1430	100	ug/g	-2.12
Nickel	SITE 10 SA1	14067748	113	113	0.8	ug/g	0.00
Phosphorus Total (P)	SITE 10 SA1	14067748	763	754	10	ug/g	1.19
Lead	SITE 10 SA1	14067748	58.6	57.2	0.1	ug/g	2.42
Antimony	SITE 10 SA1	14067748	0.4	0.4	0.1	ug/g	0.00
Selenium	SITE 10 SA1	14067748	< 0.5	< 0.5	0.5	ug/g	0.00
Tin	SITE 10 SA1	14067748	0.2	0.2	0.1	ug/g	0.00
Strontium	SITE 10 SA1	14067748	94.2	92.3	0.1	ug/g	2.04
Tellurium	SITE 10 SA1	14067748	< 0.1	< 0.1	0.1	ug/g	0.00
Titanium	SITE 10 SA1	14067748	428	426	1	ug/g	0.47
Thallium	SITE 10 SA1	14067748	0.10	0.14	0.05	ug/g	-33.33
Vanadium	SITE 10 SA1	14067748	45	44	2	ug/g	2.25
Zinc	SITE 10 SA1	14067748	79	79	1	ug/g	0.00
Zirconium	SITE 10 SA1	14067748	6.1	6.1	0.5	ug/g	0.00
Mercury	SITE 10 SA1	14067748	0.06	0.07	0.05	ug/g	-15.38
pH (DI 1:2)	SITE 13 SA3	14067759	7.7	7.6	0.1	pH units	1.31
Chloride Dissolved	SITE 13 SA3	14067759	< 50	< 50	50	ug/g	0.00
Silver	SITE 16 SA3	14067768	0.12	0.12	0.05	ug/g	0.00
Aluminum	SITE 16 SA3	14067768	7080	7380	100	ug/g	-4.15
Arsenic	SITE 16 SA3	14067768	4.3	4.4	0.2	ug/g	-2.30
Barium	SITE 16 SA3	14067768	100	100	0.1	ug/g	0.00
Beryllium	SITE 16 SA3	14067768	0.3	0.3	0.1	ug/g	0.00
Bismuth	SITE 16 SA3	14067768	< 0.1	< 0.1	0.1	ug/g	0.00
Calcium	SITE 16 SA3	14067768	6430	6370	100	ug/g	0.94
Cadmium	SITE 16 SA3	14067768	0.70	0.70	0.05	ug/g	0.00
Cobalt	SITE 16 SA3	14067768	10.9	11.0	0.3	ug/g	-0.91

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DUPLICATE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
Chromium	SITE 16 SA3	14067768	30	30	1	ug/g	0.00
Copper	SITE 16 SA3	14067768	68.6	68.6	0.5	ug/g	0.00
Iron	SITE 16 SA3	14067768	21400	20900	100	ug/g	2.36
Potassium	SITE 16 SA3	14067768	755	764	100	ug/g	-1.18
Magnesium	SITE 16 SA3	14067768	5600	5990	100	ug/g	-6.73
Manganese	SITE 16 SA3	14067768	478	482	0.2	ug/g	-0.83
Molybdenum	SITE 16 SA3	14067768	2.9	2.9	0.1	ug/g	0.00
Sodium	SITE 16 SA3	14067768	386	386	100	ug/g	0.00
Nickel	SITE 16 SA3	14067768	35.0	35.7	0.8	ug/g	-1.98
Phosphorus Total (P)	SITE 16 SA3	14067768	1770	1810	10	ug/g	-2.23
Lead	SITE 16 SA3	14067768	93.5	93.4	0.1	ug/g	0.11
Antimony	SITE 16 SA3	14067768	0.8	0.8	0.1	ug/g	0.00
Selenium	SITE 16 SA3	14067768	< 0.5	< 0.5	0.5	ug/g	0.00
Tin	SITE 16 SA3	14067768	0.4	0.4	0.1	ug/g	0.00
Strontium	SITE 16 SA3	14067768	31.1	31.3	0.1	ug/g	-0.64
Tellurium	SITE 16 SA3	14067768	< 0.1	< 0.1	0.1	ug/g	0.00
Titanium	SITE 16 SA3	14067768	339	345	1	ug/g	-1.75
Thallium	SITE 16 SA3	14067768	0.10	0.10	0.05	ug/g	0.00
Vanadium	SITE 16 SA3	14067768	36	37	2	ug/g	-2.74
Zinc	SITE 16 SA3	14067768	102	102	1	ug/g	0.00
Zirconium	SITE 16 SA3	14067768	4.3	4.3	0.5	ug/g	0.00
Mercury	SITE 16 SA3	14067768	0.61	0.62	0.05	ug/g	-1.63
pH (DI 1:2)	SITE 20 SA2	14067779	9.3	9.2	0.1	pH units	1.08
Chloride Dissolved	SITE 20 SA2	14067779	400	420	50	ug/g	-4.88
Silver	SITE 20 SA3	14067780	0.12	0.11	0.05	ug/g	8.70
Aluminum	SITE 20 SA3	14067780	8250	8090	100	ug/g	1.96
Arsenic	SITE 20 SA3	14067780	6.6	6.4	0.2	ug/g	3.08
Barium	SITE 20 SA3	14067780	43.1	42.8	0.1	ug/g	0.70
Beryllium	SITE 20 SA3	14067780	0.1	0.1	0.1	ug/g	0.00
Bismuth	SITE 20 SA3	14067780	0.2	0.2	0.1	ug/g	0.00
Calcium	SITE 20 SA3	14067780	17100	16900	100	ug/g	1.18
Cadmium	SITE 20 SA3	14067780	0.24	0.22	0.05	ug/g	8.70
Cobalt	SITE 20 SA3	14067780	9.5	9.5	0.3	ug/g	0.00
Chromium	SITE 20 SA3	14067780	18	18	1	ug/g	0.00
Copper	SITE 20 SA3	14067780	22.3	22.1	0.5	ug/g	0.90
Iron	SITE 20 SA3	14067780	22500	21800	100	ug/g	3.16
Potassium	SITE 20 SA3	14067780	1110	1100	100	ug/g	0.90
Magnesium	SITE 20 SA3	14067780	7220	7220	100	ug/g	0.00

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DUPLICATE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
Manganese	SITE 20 SA3	14067780	411	404	0.2	ug/g	1.72
Molybdenum	SITE 20 SA3	14067780	0.7	0.7	0.1	ug/g	0.00
Sodium	SITE 20 SA3	14067780	543	555	100	ug/g	-2.19
Nickel	SITE 20 SA3	14067780	24.4	24.2	0.8	ug/g	0.82
Phosphorus Total (P)	SITE 20 SA3	14067780	574	582	10	ug/g	-1.38
Lead	SITE 20 SA3	14067780	22.5	22.4	0.1	ug/g	0.45
Antimony	SITE 20 SA3	14067780	0.2	0.2	0.1	ug/g	0.00
Selenium	SITE 20 SA3	14067780	< 0.5	< 0.5	0.5	ug/g	0.00
Tin	SITE 20 SA3	14067780	0.2	0.2	0.1	ug/g	0.00
Strontium	SITE 20 SA3	14067780	52.8	52.3	0.1	ug/g	0.95
Tellurium	SITE 20 SA3	14067780	< 0.1	< 0.1	0.1	ug/g	0.00
Titanium	SITE 20 SA3	14067780	180	177	1	ug/g	1.68
Thallium	SITE 20 SA3	14067780	0.09	0.08	0.05	ug/g	11.76
Vanadium	SITE 20 SA3	14067780	14	13	2	ug/g	7.41
Zinc	SITE 20 SA3	14067780	64	64	1	ug/g	0.00
Zirconium	SITE 20 SA3	14067780	1.0	1.0	0.5	ug/g	0.00
Mercury	SITE 20 SA3	14067780	< 0.05	< 0.05	0.05	ug/g	0.00
pH (DI 1:2)	SITE 24 SA2	14067791	9.9	10.0	0.1	pH units	-1.01
Chloride Dissolved	SITE 27 SA1	14067797	260	260	50	ug/g	0.00
Chloride Dissolved	SITE 26	14067800	583	580	0.5	mg/L	0.52
Chloride Dissolved	SITE 4	14067802	3.5	3.5	0.5	mg/L	0.00

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SPIKE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Arsenic	Blank Spike. Batch :	44203175	< 0.2	54.3	50	ug/g	109
Cadmium	Blank Spike. Batch :	44203175	< 0.05	50.5	50	ug/g	101
Cobalt	Blank Spike. Batch :	44203175	< 0.3	51.7	50	ug/g	103
Chromium	Blank Spike. Batch :	44203175	< 1	50	50	ug/g	98
Copper	Blank Spike. Batch :	44203175	< 0.5	54.2	50	ug/g	108
Manganese	Blank Spike. Batch :	44203175	< 0.2	50.8	50	ug/g	102
Lead	Blank Spike. Batch :	44203175	< 0.1	53.5	50	ug/g	107
Selenium	Blank Spike. Batch :	44203175	< 0.5	55.9	50	ug/g	112
Zinc	Blank Spike. Batch :	44203175	< 1	56	50	ug/g	111
pH (DI 1:2)	Blank Spike. Batch :	44405087	< 0.1	6.0	6	pH units	100
Mercury	Blank Spike. Batch :	44203175	< 0.05	1.02	1	ug/g	102
Chloride Dissolved	Blank Spike. Batch :	44103827	< 50	100	100	ug/g	101
Arsenic	SITE 3 SA2	14067728	1.7	62.9	50	ug/g	122
Cadmium	SITE 3 SA2	14067728	0.19	56.8	50	ug/g	113
Cobalt	SITE 3 SA2	14067728	5.9	65.0	50	ug/g	118
Chromium	SITE 3 SA2	14067728	19	73	50	ug/g	109
Copper	SITE 3 SA2	14067728	20.8	80.2	50	ug/g	119
Selenium	SITE 3 SA2	14067728	< 0.5	61.7	50	ug/g	124
pH (DI 1:2)	Blank Spike. Batch :	44405091	< 0.1	6.0	6	pH units	100
Mercury	SITE 3 SA2	14067728	< 0.05	1.20	1	ug/g	116
Arsenic	SITE 10 SA1	14067748	5.3	62.0	50	ug/g	113
Cadmium	SITE 10 SA1	14067748	0.50	53.2	50	ug/g	105
Cobalt	SITE 10 SA1	14067748	16.2	71.0	50	ug/g	109
Selenium	SITE 10 SA1	14067748	< 0.5	55.4	50	ug/g	110
Mercury	SITE 10 SA1	14067748	0.06	1.20	1	ug/g	114
pH (DI 1:2)	Blank Spike. Batch :	44405092	< 0.1	6.0	6	pH units	101
Arsenic	SITE 16 SA3	14067768	4.3	65.0	50	ug/g	121
Cadmium	SITE 16 SA3	14067768	0.70	54.8	50	ug/g	108
Cobalt	SITE 16 SA3	14067768	10.9	68.7	50	ug/g	116
Chromium	SITE 16 SA3	14067768	30	80	50	ug/g	100
Selenium	SITE 16 SA3	14067768	< 0.5	61.2	50	ug/g	122
Mercury	SITE 16 SA3	14067768	0.61	1.15	1	ug/g	54
Arsenic	SITE 20 SA3	14067780	6.6	68.4	50	ug/g	124
Cadmium	SITE 20 SA3	14067780	0.24	53.7	50	ug/g	107
Cobalt	SITE 20 SA3	14067780	9.5	66.4	50	ug/g	114
Chromium	SITE 20 SA3	14067780	18	76	50	ug/g	114
Copper	SITE 20 SA3	14067780	22.3	79.7	50	ug/g	115
Lead	SITE 20 SA3	14067780	22.5	71.0	50	ug/g	97

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SPIKE SUMMARY

Parameter	Client ID	Lab ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Selenium	SITE 20 SA3	14067780	< 0.5	60.4	50	ug/g	120
Mercury	SITE 20 SA3	14067780	< 0.05	1.12	1	ug/g	109
Arsenic	Blank Spike. Batch :	44203189	< 0.2	54.9	50	ug/g	110
Cadmium	Blank Spike. Batch :	44203189	< 0.05	51.0	50	ug/g	102
Cobalt	Blank Spike. Batch :	44203189	< 0.3	53.1	50	ug/g	106
Chromium	Blank Spike. Batch :	44203189	< 1	52	50	ug/g	104
Copper	Blank Spike. Batch :	44203189	< 0.5	57.0	50	ug/g	114
Manganese	Blank Spike. Batch :	44203189	< 0.2	51.5	50	ug/g	103
Lead	Blank Spike. Batch :	44203189	< 0.1	53.0	50	ug/g	106
Selenium	Blank Spike. Batch :	44203189	< 0.5	53.6	50	ug/g	107
Zinc	Blank Spike. Batch :	44203189	< 1	58	50	ug/g	116
Mercury	Blank Spike. Batch :	44203189	< 0.05	1.00	1	ug/g	100
pH (DI 1:2)	Blank Spike. Batch :	44405137	< 0.1	6.0	6	pH units	100
Chloride Dissolved	SITE 26	14067800	583	672	100	mg/L	89
Chloride Dissolved	Blank Spike. Batch :	44103794	< 0.5	101	100	mg/L	101
Chloride Dissolved	Blank Spike. Batch :	44103810	< 0.5	101	100	mg/L	101
Chloride Dissolved	SITE 4	14067802	3.5	107	100	mg/L	104

ANALYSIS DATES

	Lab ID :	14067721	14067722	14067723	14067724
	Client ID:	SITE 1 SA1	SITE 1 SA2	SITE 1 SA3	SITE 2 SA1
0004DI02	pH (DI 1:2)	25-NOV-2004	25-NOV-2004	25-NOV-2004	25-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID :	14067725	14067726	14067727	14067728
	Client ID:	SITE 2 SA2	SITE 2 SA3	SITE 3 SA1	SITE 3 SA2
0004DI02	pH (DI 1:2)	25-NOV-2004	25-NOV-2004	25-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID :	14067729	14067730	14067731	14067732
	Client ID:	SITE 3 SA3	SITE 4 SA1	SITE 4 SA2	SITE 4 SA3
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

ANALYSIS DATES

	Lab ID :	14067733	14067734	14067735	14067736
	Client ID:	SITE 5 SA1	SITE 5 SA2	SITE 5 SA3	SITE 6 SA1
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	17-NOV-2004

	Lab ID :	14067737	14067738	14067739	14067740
	Client ID:	SITE 6 SA2	SITE 6 SA3	SITE 7 SA1	SITE 7 SA2
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

	Lab ID :	14067741	14067742	14067743	14067744
	Client ID:	SITE 7 SA3	SITE 8 SA1	SITE 8 SA2	SITE 8 SA3
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

ANALYSIS DATES

	Lab ID : Client ID:	14067745 SITE 9 SA1	14067746 SITE 9 SA2	14067747 SITE 9 SA3	14067748 SITE 10 SA1
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID : Client ID:	14067749 SITE 10 SA2	14067750 SITE 10 SA3	14067751 SITE 11 SA1	14067752 SITE 11 SA2
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID : Client ID:	14067753 SITE 11 SA3	14067754 SITE 12 SA1	14067755 SITE 12 SA2	14067756 SITE 12 SA3
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

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	Lab ID : Client ID:	14067757 SITE 13 SA1	14067758 SITE 13 SA2	14067759 SITE 13 SA3	14067760 SITE 14 SA1
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

	Lab ID : Client ID:	14067761 SITE 14 SA2	14067762 SITE 14 SA3	14067763 SITE 15 SA1	14067764 SITE 15 SA2
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

	Lab ID : Client ID:	14067765 SITE 15 SA3	14067766 SITE 16 SA1	14067767 SITE 16 SA2	14067768 SITE 16 SA3
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

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	Lab ID :	14067769	14067770	14067771	14067772
	Client ID:	SITE 17 SA1	SITE 17 SA2	SITE 17 SA3	SITE 18 SA1
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	16-NOV-2004	16-NOV-2004	17-NOV-2004

	Lab ID :	14067773	14067774	14067775	14067776
	Client ID:	SITE 18 SA2	SITE 18 SA3	SITE 19 SA1	SITE 19 SA2
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

	Lab ID :	14067777	14067778	14067779	14067780
	Client ID:	SITE 19 SA3	SITE 20 SA1	SITE 20 SA2	SITE 20 SA3
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
ICPMS200	Soil Metals by ICP-MS	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

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	Lab ID :	14067781	14067782	14067783	14067784
	Client ID:	SITE 21 SA1	SITE 21 SA2	SITE 21 SA3	SITE 22 SA1
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
ICPMS200	Soil Metals by ICP-MS	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	18-NOV-2004

	Lab ID :	14067785	14067786	14067787	14067788
	Client ID:	SITE 22 SA2	SITE 22 SA3	SITE 23 SA1	SITE 23 SA2
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	26-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
ICPMS200	Soil Metals by ICP-MS	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	18-NOV-2004	18-NOV-2004	18-NOV-2004	18-NOV-2004

	Lab ID :	14067789	14067790	14067791	14067792
	Client ID:	SITE 23 SA3	SITE 24 SA1	SITE 24 SA2	SITE 24 SA3
0004DI02	pH (DI 1:2)	26-NOV-2004	26-NOV-2004	26-NOV-2004	29-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
ICPMS200	Soil Metals by ICP-MS	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	18-NOV-2004	18-NOV-2004	18-NOV-2004	18-NOV-2004

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	Lab ID :	14067793	14067794	14067795	14067796
	Client ID:	SITE 25 SA1	SITE 25 SA2	SITE 25 SA3	SITE 26 SA1
0004DI02	pH (DI 1:2)	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
110415SW	Chloride Dissolved	29-NOV-2004	29-NOV-2004	29-NOV-2004	29-NOV-2004
Hg-TMS20	Mercury	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
ICPMS200	Soil Metals by ICP-MS	01-DEC-2004	01-DEC-2004	01-DEC-2004	01-DEC-2004
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

	Lab ID :	14067797	14067800	14067801	14067802
	Client ID:	SITE 27 SA1	SITE 26	SITE 8	SITE 4
0004DI02	pH (DI 1:2)	29-NOV-2004	---	---	---
110415SW	Chloride Dissolved	29-NOV-2004	---	---	---
11041334	Chloride Dissolved	---	25-NOV-2004	26-NOV-2004	26-NOV-2004
Hg-TMS20	Mercury	01-DEC-2004	---	---	---
ICPMS200	Soil Metals by ICP-MS	01-DEC-2004	---	---	---
	Matrix:	Soil	Water	Water	Water
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	15-NOV-2004

	Lab ID :	14067803
	Client ID:	SITE 21
11041334	Chloride Dissolved	26-NOV-2004
	Matrix:	Water
	Sampled on:	17-NOV-2004

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	Lab ID :	14067721	14067722	14067723	14067724
	Client ID:	SITE 1 SA1	SITE 1 SA2	SITE 1 SA3	SITE 2 SA1
0004DI02	pH (DI 1:2)	44405087	44405087	44405087	44405087
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID :	14067725	14067726	14067727	14067728
	Client ID:	SITE 2 SA2	SITE 2 SA3	SITE 3 SA1	SITE 3 SA2
0004DI02	pH (DI 1:2)	44405087	44405087	44405087	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID :	14067729	14067730	14067731	14067732
	Client ID:	SITE 3 SA3	SITE 4 SA1	SITE 4 SA2	SITE 4 SA3
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

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	Lab ID :	14067733	14067734	14067735	14067736
	Client ID:	SITE 5 SA1	SITE 5 SA2	SITE 5 SA3	SITE 6 SA1
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	17-NOV-2004

	Lab ID :	14067737	14067738	14067739	14067740
	Client ID:	SITE 6 SA2	SITE 6 SA3	SITE 7 SA1	SITE 7 SA2
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

	Lab ID :	14067741	14067742	14067743	14067744
	Client ID:	SITE 7 SA3	SITE 8 SA1	SITE 8 SA2	SITE 8 SA3
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

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	Lab ID :	14067745	14067746	14067747	14067748
	Client ID:	SITE 9 SA1	SITE 9 SA2	SITE 9 SA3	SITE 10 SA1
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID :	14067749	14067750	14067751	14067752
	Client ID:	SITE 10 SA2	SITE 10 SA3	SITE 11 SA1	SITE 11 SA2
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	15-NOV-2004	15-NOV-2004	15-NOV-2004

	Lab ID :	14067753	14067754	14067755	14067756
	Client ID:	SITE 11 SA3	SITE 12 SA1	SITE 12 SA2	SITE 12 SA3
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405091
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	15-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

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	Lab ID :	14067757	14067758	14067759	14067760
	Client ID:	SITE 13 SA1	SITE 13 SA2	SITE 13 SA3	SITE 14 SA1
0004DI02	pH (DI 1:2)	44405091	44405091	44405091	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

	Lab ID :	14067761	14067762	14067763	14067764
	Client ID:	SITE 14 SA2	SITE 14 SA3	SITE 15 SA1	SITE 15 SA2
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

	Lab ID :	14067765	14067766	14067767	14067768
	Client ID:	SITE 15 SA3	SITE 16 SA1	SITE 16 SA2	SITE 16 SA3
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	16-NOV-2004	16-NOV-2004	16-NOV-2004	16-NOV-2004

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	Lab ID :	14067769	14067770	14067771	14067772
	Client ID:	SITE 17 SA1	SITE 17 SA2	SITE 17 SA3	SITE 18 SA1
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	16-NOV-2004	16-NOV-2004	17-NOV-2004

	Lab ID :	14067773	14067774	14067775	14067776
	Client ID:	SITE 18 SA2	SITE 18 SA3	SITE 19 SA1	SITE 19 SA2
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

	Lab ID :	14067777	14067778	14067779	14067780
	Client ID:	SITE 19 SA3	SITE 20 SA1	SITE 20 SA2	SITE 20 SA3
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203175	44203175	44203175	44203175
ICPMS200	Soil Metals by ICP-MS	44203175	44203175	44203175	44203175
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

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	Lab ID :	14067781	14067782	14067783	14067784
	Client ID:	SITE 21 SA1	SITE 21 SA2	SITE 21 SA3	SITE 22 SA1
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203189	44203189	44203189	44203189
ICPMS200	Soil Metals by ICP-MS	44203189	44203189	44203189	44203189
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	18-NOV-2004

	Lab ID :	14067785	14067786	14067787	14067788
	Client ID:	SITE 22 SA2	SITE 22 SA3	SITE 23 SA1	SITE 23 SA2
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405092
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203189	44203189	44203189	44203189
ICPMS200	Soil Metals by ICP-MS	44203189	44203189	44203189	44203189
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	18-NOV-2004	18-NOV-2004	18-NOV-2004	18-NOV-2004

	Lab ID :	14067789	14067790	14067791	14067792
	Client ID:	SITE 23 SA3	SITE 24 SA1	SITE 24 SA2	SITE 24 SA3
0004DI02	pH (DI 1:2)	44405092	44405092	44405092	44405137
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203189	44203189	44203189	44203189
ICPMS200	Soil Metals by ICP-MS	44203189	44203189	44203189	44203189
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	18-NOV-2004	18-NOV-2004	18-NOV-2004	18-NOV-2004

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	Lab ID :	14067793	14067794	14067795	14067796
	Client ID:	SITE 25 SA1	SITE 25 SA2	SITE 25 SA3	SITE 26 SA1
0004DI02	pH (DI 1:2)	44405137	44405137	44405137	44405137
110415SW	Chloride Dissolved	44103827	44103827	44103827	44103827
Hg-TMS20	Mercury	44203189	44203189	44203189	44203189
ICPMS200	Soil Metals by ICP-MS	44203189	44203189	44203189	44203189
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	17-NOV-2004

	Lab ID :	14067797	14067800	14067801	14067802
	Client ID:	SITE 27 SA1	SITE 26	SITE 8	SITE 4
0004DI02	pH (DI 1:2)	44405137	---	---	---
110415SW	Chloride Dissolved	44103827	---	---	---
11041334	Chloride Dissolved	---	44103794	44103810	44103810
Hg-TMS20	Mercury	44203189	---	---	---
ICPMS200	Soil Metals by ICP-MS	44203189	---	---	---
	Matrix:	Soil	Water	Water	Water
	Sampled on:	17-NOV-2004	17-NOV-2004	17-NOV-2004	15-NOV-2004

	Lab ID :	14067803
	Client ID:	SITE 21
11041334	Chloride Dissolved	44103810
	Matrix:	Water
	Sampled on:	17-NOV-2004

01-Dec-04
Page 49 of 49

BLANK SUMMARY

All method blanks were less than MDL

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWEL Date: Nov 25/04 Initial: TM C of C #: 8058097

SAMPLE #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	2																						
2	2																						
3	2																						
4	2																						
5	2																						
6	2																						
7	2																						
8	2																						
9	2																						
10	2																						
11	2																						
12	2																						

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☒ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☐ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____

☐ Insufficient Sample (lab use only)

- Poured off anions

Comments: NO SAMPLING DATE

	Temperature			Average
Cooler #1	11	11	11	11
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: TW2 Date: JUN 25/04 Initial: TM C of C #: 8058295

	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	2																						
2	2																						
3	2																						
4	2																						
5	2																						
6	2																						
7	2																						
8	2																						
9	2																						
10	2																						
11	2																						
12	2																						

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.	C	C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies
	Insufficient Sample (lab use only)

o Poured off anions

Comments: NO SAMPLING DATE

	Temperature			Average
Cooler #1	11	11	11	11
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs:

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWC Date: DEC 25/07 Initial: TBJ C of C #: 8166748

	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Item #

1. [ ] Custody Seal not Intact
2. [ ] Temp > 10 degrees C
3. [ ] Broken Bottle in Transit
4. [ ] No C of C
5. [6] C of C information Incomplete
6. [ ] C of C not signed/dated by consultant
7. [ ] Non-current C of C
8. [ ] Bottles listed on C of C, but not in shipment
9. [ ] Bottles in shipment, but not on C of C
10. [ ] Analysis Requirements absent/not clear
11. [ ] Labelling Issue (missing/and/or incorrect)
12. [ ] Samples received >5 days after sampling
13. [ ] Samples received after hold time
14. [ ] Wrong Bottle(s) used
15. [ ] Incorrect Preservation or Headspace present
16. [ ] Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. [ ] Incorrect Task Order # provided to lab

[ ] Anomalies _____

[ ] Insufficient Sample (lab use only)

o Poured off anions

Comments: NO SAMPLING DATE

	Temperature			Average
Cooler #1	11	11	11	11
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs:

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Tetra Date: Nov 25/04 Initial: TM C of C #: 8142678

Sample ID	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	–																						
2	–																						
3	–																						
4	–																						
5	–																						
6	–																						
7	–																						
8	–																						
9	–																						
10	–																						
11	–																						
12	–																						

o Poured off anions

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.	4	C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies
	Insufficient Sample (lab use only)

Comments: NO SAMPLING DATE

	Temperature			Average
Cooler #1	11	11	11	11
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs:

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWE Date: NOV 25 07 Initial: TBT C of C #: 8166742

Sample ID	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																						
2	1																						
3	1																						
4	1																						
5	1																						
6	1																						
7	2																						
8	2																						
9	2																						
10	2																						
11	2																						
12	2																						

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.	6	C of C information Incomplete
6.	1	C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies
	Insufficient Sample (lab use only)

o Poured off anions

Comments: RECIEVED ONLY 1 JAR FOR ALL SAMPLES FROM SITE 13.

NO SAMPLING DATE

	Temperature			Average
Cooler #1	11	11	11	11
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs:

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Jwee Date: NOV 2704 Initial: FM C of C #: 8166743

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	2																						
2	2																						
3	2																						
4	2																						
5	2																						
6	2																						
7	2				X																		
8	2				X																		
9	2																						
10	2																						
11	2																						
12	2																						

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.	0	C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies
	Insufficient Sample (lab use only)

o Poured off anions

Comments: NO SAMPLING DATE

	Temperature			Average
Cooler #1	11	11	11	11
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs:

PSC ANALYTICAL SERVICES SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: TWCA Date: NOV 25/04 Initial: JBT C of C #: 3166746

	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																						
2	1																						
3	1																						
4	1																						
5	X				1																		
6	X				1																		
7					1																		
8					1																		
9																							
10																							
11	1																						
12	1																						

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☒ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☒ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____

☐ Insufficient Sample (lab use only)

@ Poured off anions @ Site 26, 8, 4, 2

Comments: RECIEVED 2 EXTRA SAMPLES SITE 26 SA2 + 3

NO SAMPLING DATE

	Temperature			Average
Cooler #1				
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

PHILIP ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

PHILIP SERVICES

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8058297

COMPANY NAME: Jacques Whitford
PH. #: 604-436-3014
FAX #: 604-436-3752
COMPANY ADDRESS:
CLIENT PROJECT ID: (#) BCV 61843
SAMPLER NAME (PRINT):
PROJECT MANAGER: Liliana Jerade

FIELD SAMPLE ID	PHILIP LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Total metals	Arbride
1 Site1 SA1	67721			X		2	Nov 15			X	X
2 Site1 SA2	67722			X							
3 Site1 SA3	67723			X							
4 Site2 SA1	67724			X							
5 Site2 SA2	67725			X							
6 Site2 SA3	67726			X							
7 Site3 SA1	67727			X							
8 Site3 SA2	67728			X							
9 Site3 SA3	67729			X							
10 Site4 SA1	67730			X			16				
11 Site4 SA2	67731			X							
12 Site4 SA3	67732			X							

TAT
- Two Week ☐
- One Week ☑
- 48 Hours ☐
- 24 Hours ☐
- Other: ☐

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS
EDT ☑

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 11, 11, 11 / 11 oC
LAB INFORMATION: Dec 1/04 pm

RELINQUISHED BY SAMPLER:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY: Stew McBride	DATE 24/11/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE 24/11/04	TIME 1535	RECEIVED BY LABORATORY: MF

ORIGINAL - PHILIP YELLOW - PHILIP PINK - CLIENT

CUSTODY RECORD

462 TRA-2017-70442

PHILIP ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

PHILIP SERVICES

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8058295

COMPANY NAME: Jacques Whitford
PH. #: 604-436-3014
FAX #: 604-436-3752
COMPANY ADDRESS:
CLIENT PROJECT ID: (#) BCV61843
SAMPLER NAME (PRINT):
PROJECT MANAGER: Liliana Jurade

	FIELD SAMPLE ID	PHILIP LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Total metals	Chloride
1	Site 5 SA1	67733			X		2	Nov 16			X	X
2	Site 5 SA2	67734										
3	Site 5 SA3	67735										
4	Site 6 SA1	67736						17				
5	Site 6 SA2	67737										
6	Site 6 SA3	67738										
7	Site 7 SA1	67739										
8	Site 7 SA2	67740										
9	Site 7 SA3	67741										
10	Site 8 SA1	67742										
11	Site 8 SA2	67743										
12	Site 8 SA3	67744										

TAT
- Two Week ☐
- One Week ☑
- 48 Hours ☐
- 24 Hours ☐
- Other: ☐

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS
EDT ☑

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 11, 11, 11 / 11°C
LAB INFORMATION: Dec 1/04 pm

RELINQUISHED BY SAMPLER:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY: Stew McBride	DATE 24/11/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE 24/11/04	TIME 1835	RECEIVED BY LABORATORY: MF

ORIGINAL - PHILIP YELLOW - PHILIP PINK - CLIENT

CUSTODY RECORD

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PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
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Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8166748

COMPANY NAME: Jacques Whitford
COMPANY ADDRESS:
PH. #: 604-436-3014
E-mail:
FAX #: 604-436-3752
CLIENT PROJECT ID: (#) BCV61843
SAMPLER NAME (PRINT):
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Total metals	Chloride
1	Site9 SA1	67745			X		1	15				
2	Site9 SA2	67746			X							
3	Site9 SA3	67747										
4	Site10 SA1	67748										
5	Site10 SA2	67749										
6	Site10 SA3	67750										
7	Site11 SA1	67751										
8	Site11 SA2	67752										
9	Site11 SA3	67753										
10	Site12 SA1	67754						16				
11	Site12 SA2	67755										
12	Site12 SA3	67756			↓		↓				↓	↓

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☑
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT
JARS USED

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 11, 11, 11 / 11°C
DUE DATE: Dec 1/04 FD
LOG IN CHECK

RELINQUISHED BY SAMPLER:	DATE DD/MM/YY	TIME	RECEIVED BY:
RELINQUISHED BY: Steve McBride	DATE DD/MM/YY 24/11/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE DD/MM/YY 24/11/04	TIME 1535	RECEIVED BY LABORATORY: MT

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

IRA-2017-70442

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8142678

COMPANY NAME: Jacques Whitford
COMPANY ADDRESS:
PH. #: 604-436-3044
E-mail:
FAX #: 604-436-3752
CLIENT PROJECT ID: (#) BCV 01843
SAMPLER NAME (PRINT):
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Total metals	Chloride
1	Site 13 SA1	677757			X		1	16			X	X
2	Site 13 SA2	677758			↓		↓				↓	↓
3	Site 13 SA3	677759										
4	Site 14 SA1	677760										
5	Site 14 SA2	677761										
6	Site 14 SA3	677762										
7	Site 15 SA1	677763										
8	Site 15 SA2	677764										
9	Site 15 SA3	677765										
10	Site 16 SA1	677766										
11	Site 16 SA2	677767										
12	Site 16 SA3	677768			↓		↓				↓	↓

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☑
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT
JARS USED: 12

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 11, 11, 11 / 11°C
DUE DATE: Dec 1/04 M07
LOG IN CHECK

RELINQUISHED BY SAMPLER:	DATE DD/MM/YY	TIME	RECEIVED BY:
RELINQUISHED BY: Stan McBride	DATE DD/MM/YY 24/11/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE DD/MM/YY 24/11/04	TIME 1585	RECEIVED BY LABORATORY: MF

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

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PSC ANALYTICAL SERVICES

8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8166742

COMPANY NAME: Jacques Whitford

COMPANY ADDRESS:

PH. #: 604-436-3014
E-mail:
FAX #: 604-436-3752

CLIENT PROJECT ID: (#) BV 61843

SAMPLER NAME (PRINT):

PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Total metals	Chloride
1	Site 17 SA1	67769			X		1	17			X	X
2	Site 17 SA2	67770					1	16				
3	Site 17 SA3	67771					1					
4	Site 18 SA1	67772					2	17				
5	Site 18 SA2	67773										
6	Site 18 SA3	67774										
7	Site 19 SA1	67775										
8	Site 19 SA2	67776										
9	Site 19 SA3	67777										
10	Site 20 SA1	67778										
11	Site 20 SA2	67779										
12	Site 20 SA3	67780										

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

* some exceptions apply please contact lab

- STANDARD 10 BUSINESS DAYS ☐
- STANDARD 5 BUSINESS DAYS ☑
- RUSH 2 BUSINESS DAYS ☐
- URGENT 1 BUSINESS DAY ☐
- OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE

☐ CCME
☑ CSR
☐ ALBERTA TIER 1
☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED: 21

LAB USE ONLY

ARRIVAL TEMPERATURE °C	DUE DATE	LOG IN CHECK
11, 11, 11 11°C	DE 1/04 pm	

RELINQUISHED BY SAMPLER:	DATE DD/MM/YY	TIME	RECEIVED BY:
RELINQUISHED BY: Steve McBride	DATE DD/MM/YY 24/11/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE DD/MM/YY 24/11/04	TIME 1535	RECEIVED BY LABORATORY: MF

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

RA-2017-70442

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

ANALYTICAL SERVICES

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8166743

COMPANY NAME: Jacques Whitford
COMPANY ADDRESS:
PH. #: 604-436-3014
E-mail:
FAX #: 604-436-3752
CLIENT PROJECT ID: (#) BV61843
SAMPLER NAME (PRINT):
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	SURFACE WATER	SOIL	OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	TIME	HEADSPACE VAPOUR	Total metals	Chloride
1	Site21 SA1	677791			X		2	17			X	X
2	Site21 SA2	677792										
3	Site21 SA3	677793										
4	Site22 SA1	677794						13				
5	Site22 SA2	677795										
6	Site22 SA3	677796										
7	Site22 SA1	677797										
8	Site23 SA2	677798										
9	Site23 SA3	677799										
10	Site24 SA1	677790										
11	Site24 SA2	677791										
12	Site24 SA3	677792			✓		✓				✓	✓

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☑
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME
☑ CSR
☐ ALBERTA TIER 1
☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT
JARS USED: 24

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 11, 11, 11 / 11°C
DUE DATE: Dec 1/04 pm
LOG IN CHECK

RELINQUISHED BY SAMPLER:	DATE DD/MM/YY	TIME	RECEIVED BY:
RELINQUISHED BY: Steve McBride	DATE DD/MM/YY 24/11/04	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE DD/MM/YY 24/11/04	TIME 1535	RECEIVED BY LABORATORY:

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

PSC ANALYTICAL SERVICES
8577 Commerce Court
Burnaby, B.C. V5A 4N5
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST 8166746

COMPANY NAME: Jacques Whitford
COMPANY ADDRESS:
PH. #: 604-436-3014
E-mail:
FAX #: 604-436-3752
CLIENT PROJECT ID: (#) BCW61843
SAMPLER NAME (PRINT):
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	PSC LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	Total metals	Chloride
1	Site 25 SA1	67793			X		1	17			X	X
2	Site 25 SA2	67794			↓		↓				↓	↓
3	Site 25 SA3	67795			↓		↓				↓	↓
4	Site 26 SA1	67796			↓		↓				↓	↓
5	Site 27 SA1	67797			↓		↓				↓	↓
6	Site 26	67800		X			1					X
7	Site 8	67801		X			1					X
8	Site 4	67802		X			1	15				X
9	Site 21	67803		X			1	12				X
10												
11	SITE 26 SA2	67798										
12	SITE 26 SA3	67799										

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
* some exceptions apply please contact lab
STANDARD 10 BUSINESS DAYS ☐
STANDARD 5 BUSINESS DAYS ☑
RUSH 2 BUSINESS DAYS ☐
URGENT 1 BUSINESS DAY ☐
OTHER BUSINESS DAYS ____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:
SPECIAL DETECTION LIMITS / CONTAMINANT TYPE
☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER
ACCOUNTING CONTACT:
SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT
JARS USED: 5

LAB USE ONLY
ARRIVAL TEMPERATURE °C: 11, 11, 11 / 11°C
DUE DATE: Dec 11/04
LOG IN CHECK:

RELINQUISHED BY SAMPLER:	DATE DD/MM/YY	TIME	RECEIVED BY:	
RELINQUISHED BY: Steve McBride	DATE DD/MM/YY 24/11/04	TIME	RECEIVED BY:	
RELINQUISHED BY:	DATE DD/MM/YY 24/11/04	TIME 1535	RECEIVED BY LABORATORY: MF	

ORIGINAL - PSC YELLOW - PSC PINK - CLIENT

TOA-2017-70442

JACQUES WHITFORD ENVIRONMENT LTD.
JWEL-BBY
4370 DOMINION ST. 5TH FLOOR
BURNABY, BC
Canada V5G4L7

Attention: Liliana Jerade

Report Date: 2005/03/02

Your Project #: BCV61843
Your C.O.C. #: 147242

ANALYTICAL REPORT

MAXXAM JOB #: A504320
Received: 2005/02/18, 12:50

Sample Matrix: Soil
Samples Received: 45

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (soil)	24	2005/02/24	2005/02/25	ING303 Rev.3.4	Carter, SSMA 18.2.4
Chloride (soil)	21	2005/02/25	2005/02/25	ING303 Rev.3.4	Carter, SSMA 18.2.4
Elements by ICPMS (total)	23	2005/02/22	2005/02/25	ING112 Rev 1.5	Based on EPA 200.8
Elements by ICPMS (total)	22	2005/02/23	2005/02/25	ING112 Rev 1.5	Based on EPA 200.8
pH (2:1 DI Water Extract)(1)	7	2005/02/22	2005/02/22	ING416 Rev.1.2	Carter, SSMA 16.2
pH (2:1 DI Water Extract)(1)	38	2005/02/22	2005/02/23	ING416 Rev.1.2	Carter, SSMA 16.2

(1) SCC/CAEAL

MAXXAM Analytics Inc.

CLIFTON SAMOILOFF

CS/lc4
encl.

Total cover pages: 1

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		728150	728151	728152	728153	728154	728155		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	SITE 1 SA1	SITE 1 SA2	SITE 1 SA3	SITE 2 SA1	SITE 2 SA2	SITE 2 SA3	DL	QC Batch
Misc. Inorganics									
Soluble (2:1) pH	N/A	8.55	8.09	7.27	6.83	6.97	6.45	0.01	697575
ANIONS									
Chloride (Cl)	ug/g	<50	<50	<50	705	316	375	50	702495
Please check for attached comments									

Maxxam ID		728156	728157	728158	728159	728160	728161		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	SITE 3 SA1	SITE 3 SA2	SITE3 SA3	SITE 4 SA1	SITE 4 SA2	SITE 4 SA3	DL	QC Batch
Misc. Inorganics									
Soluble (2:1) pH	N/A	9.55	7.97	8.84	8.83	9.22	8.63	0.01	697575
ANIONS									
Chloride (Cl)	ug/g	79	<50	<50	96	<50	<50	50	702495
Please check for attached comments									

Maxxam ID		728162	728163	728164	728165	728166	728167		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	SITE 5 SA1	SITE 5 SA2	SITE 5 SA3	SITE 6 SA1	SITE 6 SA2	SITE 6 SA3	DL	QC Batch
Misc. Inorganics									
Soluble (2:1) pH	N/A	8.94	8.30	7.96	7.38	7.13	7.42	0.01	697575
ANIONS									
Chloride (Cl)	ug/g	545	434	372	119	<50	<50	50	702495
Please check for attached comments									

Maxxam ID		728168	728169	728170	728171	728172	728173		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	SITE 7 SA1	SITE 7 SA2	SITE 7 SA3	SITE 8 SA1	SITE 8 SA2	SITE 8 SA3	DL	QC Batch
Misc. Inorganics									
Soluble (2:1) pH	N/A	9.16	8.74	8.32	9.21	9.17	8.65	0.01	697576
ANIONS									
Chloride (Cl)	ug/g	265	<50	171	98	121	101	50	702495
Please check for attached comments									

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		728174	728175	728176	728177	728178	728179		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 19 SA1**	**SITE 19 SA2**	**SITE 19 SA3**	**SITE 19 DUP-1**	**SITE 20 SA1**	**SITE 20 SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	N/A	9.49	9.39	7.50	9.61	9.01	8.89	0.01	697576
ANIONS									
Chloride (Cl)	ug/g	269	201	200	258	206	83	50	703545

Please check for attached comments

Maxxam ID		728180	728181	728182	728183	728187	728188		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 20 SA3**	**SITE 21 SA1**	**SITE 21 SA2**	**SITE 20 SA3**	**SITE ~~21~~ 22 SA1**	**SITE ~~21~~ 22 SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	N/A	9.01	9.38	8.67	7.64	9.60	8.83	0.01	697576
ANIONS									
Chloride (Cl)	ug/g	152	69	<50	<50	96	<50	50	703545

Please check for attached comments

Maxxam ID		728189	728190		728191	728192		
Sampling Date		2005/02/15	2005/02/15		2005/02/15	2005/02/15		
	Units	**SITE22 SA3**	**SITE 22 DUP-1**	**QC Batch**	**SITE 23 SA1**	**SITE 23 SA2**	**DL**	**QC Batch**
Misc. Inorganics								
Soluble (2:1) pH	N/A	7.33	9.60	697576	8.86	7.79	0.01	697577
ANIONS								
Chloride (Cl)	ug/g	<50	93	703545	265	98	50	703545

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		728193	728194	728195	728196	728197		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 23 SA3**	**SITE 23 DUP-1**	**SITE 24 SA1**	**SITE 24 SA2**	**SITE 24 SA3**	**DL**	**QC Batch**
Misc. Inorganics								
Soluble (2:1) pH	N/A	7.43	9.17	9.64	9.55	9.17	0.01	697577
ANIONS								
Chloride (Cl)	ug/g	161	233	142	70	<50	50	703593

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728150	728151	728152	728153	728154		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 1 SA1**	**SITE 1 SA2**	**SITE 1 SA3**	**SITE 2 SA1**	**SITE 2 SA2**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	9160	9690	9140	16400	14400	100	700332
Total Antimony (Sb)	mg/kg	0.2	0.2	0.2	0.5	0.4	0.1	700332
Total Arsenic (As)	mg/kg	4.5	3.1	3.8	8.5	5.3	0.2	700332
Total Barium (Ba)	mg/kg	61.6	46.1	56.8	41.5	45.0	0.1	700332
Total Beryllium (Be)	mg/kg	0.1	0.1	0.2	0.3	0.2	0.1	700332
Total Bismuth (Bi)	mg/kg	0.1	0.7	0.1	<0.1	<0.1	0.1	700332
Total Boron (B)	mg/kg		<5	<5	<5	<5	5	700332
Total Cadmium (Cd)	mg/kg	0.15	0.15	0.13	0.18	0.20	0.05	700332
Total Calcium (Ca)	mg/kg	2060	2180	2140	4410	3860	100	700332
Total Chromium (Cr)	mg/kg	17.7	26.0	17.7	38.5	47.1	1	700332
Total Cobalt (Co)	mg/kg	6.3	6.7	6.3	10.7	9.4	0.3	700332
Total Copper (Cu)	mg/kg	22.6	27.1	21.5	60.6	51.4	0.5	700332
Total Iron (Fe)	mg/kg	18300	19700	17400	31200	27900	100	700332
Total Lead (Pb)	mg/kg	10.3	15.9	9.0	122	137	0.1	700332
Total Lithium (Li)	mg/kg		11.6	15.8	20.5	20.0	5	700332
Total Magnesium (Mg)	mg/kg	5580	6630	5370	9050	8330	100	700332
Total Manganese (Mn)	mg/kg	328	308	322	568	476	0.2	700332
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700332
Total Molybdenum (Mo)	mg/kg	0.5	0.5	0.5	0.9	0.6	0.1	700332
Total Nickel (Ni)	mg/kg	17.0	23.4	23.3	20.3	22.3	0.8	700332
Total Phosphorus (P)	mg/kg	413	439	429	549	563	10	700332
Total Potassium (K)	mg/kg	1100	655	1060	707	697	100	700332
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700332
Total Silver (Ag)	mg/kg	0.09	0.13	<0.05	0.08	0.08	0.05	700332
Total Sodium (Na)	mg/kg	490	456	391	1720	1170	100	700332
Total Strontium (Sr)	mg/kg	9.6	11.8	10.5	28.9	21.3	0.1	700332
Total Thallium (Tl)	mg/kg	0.13	0.07	0.13	0.07	0.06	0.05	700332
Total Tin (Sn)	mg/kg	0.5	0.6	0.4	0.4	0.5	0.1	700332
Total Titanium (Ti)	mg/kg	554	447	528	612	541	1	700332
Total Uranium (U)	mg/kg		0.38	0.85	0.31	0.37	0.05	700332
Total Vanadium (V)	mg/kg	32.4	35.9	31.0	58.5	50.2	2	700332
Total Zinc (Zn)	mg/kg	56.6	60.7	52.9	96.7	83.1	1	700332
Total Zirconium (Zr)	mg/kg	6.3	6.5	5.2	17.6	13.4	0.5	700332

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728155	728156	728157	728158	728159		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 2 SA3**	**SITE 3 SA1**	**SITE 3 SA2**	**SITE3 SA3**	**SITE 4 SA1**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	15400	6400	7630	6680	7570	100	700332
Total Antimony (Sb)	mg/kg	0.4	0.1	0.1	0.1	0.2	0.1	700332
Total Arsenic (As)	mg/kg	6.1	1.4	1.3	1.1	6.7	0.2	700332
Total Barium (Ba)	mg/kg	48.2	60.8	68.2	62.5	63.8	0.1	700332
Total Beryllium (Be)	mg/kg	0.3	0.3	0.4	0.3	0.3	0.1	700332
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1	0.1	700332
Total Boron (B)	mg/kg	<5	<5	<5	<5	<5	5	700332
Total Cadmium (Cd)	mg/kg	0.16	0.11	0.09	0.09	0.16	0.05	700332
Total Calcium (Ca)	mg/kg	4330	4940	6400	4310	3080	100	700332
Total Chromium (Cr)	mg/kg	30.4	16.1	11.6	13.0	21.7	1	700332
Total Cobalt (Co)	mg/kg	9.2	4.7	4.8	4.6	6.5	0.3	700332
Total Copper (Cu)	mg/kg	44.6	14.9	15.4	15.4	27.2	0.5	700332
Total Iron (Fe)	mg/kg	28500	14300	14100	13800	16000	100	700332
Total Lead (Pb)	mg/kg	37.2	46.3	25.5	60.7	29.4	0.1	700332
Total Lithium (Li)	mg/kg	20.2	7	8	8	9	5	700332
Total Magnesium (Mg)	mg/kg	8780	4080	4260	4110	5460	100	700332
Total Manganese (Mn)	mg/kg	504	296	305	288	287	0.2	700332
Total Mercury (Hg)	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	0.05	700332
Total Molybdenum (Mo)	mg/kg	0.5	0.4	0.5	0.4	0.4	0.1	700332
Total Nickel (Ni)	mg/kg	20.7	8.0	8.0	7.7	25.6	0.8	700332
Total Phosphorus (P)	mg/kg	564	746	779	671	648	10	700332
Total Potassium (K)	mg/kg	733	1120	1110	1120	1290	100	700332
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700332
Total Silver (Ag)	mg/kg	0.08	0.07	0.06	0.07	0.10	0.05	700332
Total Sodium (Na)	mg/kg	1160	594	461	515	553	100	700332
Total Strontium (Sr)	mg/kg	26.1	67.5	131	64.8	24.4	0.1	700332
Total Thallium (Tl)	mg/kg	0.07	0.08	0.06	0.07	0.07	0.05	700332
Total Tin (Sn)	mg/kg	0.4	0.3	0.3	0.3	0.3	0.1	700332
Total Titanium (Ti)	mg/kg	608	372	408	407	349	1	700332
Total Uranium (U)	mg/kg	0.34	0.75	0.72	0.71	0.78	0.05	700332
Total Vanadium (V)	mg/kg	53.9	31.7	33.0	30.5	32.0	2	700332
Total Zinc (Zn)	mg/kg	76.1	43.9	44.9	46.6	46.5	1	700332
Total Zirconium (Zr)	mg/kg	15.3	16.2	18.4	17.4	9.9	0.5	700332

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728160	728161	728162	728163	728164		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 4 SA2**	**SITE 4 SA3**	**SITE 5 SA1**	**SITE 5 SA2**	**SITE 5 SA3**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	6570	6180	11700	9310	12400	100	700332
Total Antimony (Sb)	mg/kg	0.5	<0.1	0.4	0.4	0.3	0.1	700332
Total Arsenic (As)	mg/kg	4.8	3.1	3.9	4.3	3.7	0.2	700332
Total Barium (Ba)	mg/kg	57.1	43.7	130	104	104	0.1	700332
Total Beryllium (Be)	mg/kg	0.2	0.3	0.3	0.3	0.3	0.1	700332
Total Bismuth (Bi)	mg/kg	0.1	<0.1	0.7	0.3	0.6	0.1	700332
Total Boron (B)	mg/kg	<5	<5	<5	<5	<5	5	700332
Total Cadmium (Cd)	mg/kg	0.36	0.09	0.36	0.33	0.29	0.05	700332
Total Calcium (Ca)	mg/kg	4170	2170	5390	3830	3940	100	700332
Total Chromium (Cr)	mg/kg	38.0	11.8	26.0	21.7	21.0	1	700332
Total Cobalt (Co)	mg/kg	7.2	5.0	8.0	6.3	8.1	0.3	700332
Total Copper (Cu)	mg/kg	42.5	15.9	28.0	18.3	19.8	0.5	700332
Total Iron (Fe)	mg/kg	18000	14000	23000	18100	20900	100	700332
Total Lead (Pb)	mg/kg	124	8.9	19.6	29.7	17.4	0.1	700332
Total Lithium (Li)	mg/kg	8	7	10.9	10	10.7	5	700332
Total Magnesium (Mg)	mg/kg	6080	4290	6050	4990	5170	100	700332
Total Manganese (Mn)	mg/kg	296	244	321	253	322	0.2	700332
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700332
Total Molybdenum (Mo)	mg/kg	1.2	0.3	0.8	0.6	0.6	0.1	700332
Total Nickel (Ni)	mg/kg	28.7	11.4	17.1	13.5	14.1	0.8	700332
Total Phosphorus (P)	mg/kg	628	493	1240	1030	1150	10	700332
Total Potassium (K)	mg/kg	930	1000	2470	2110	2250	100	700332
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700332
Total Silver (Ag)	mg/kg	1.46	<0.05	0.15	0.12	0.15	0.05	700332
Total Sodium (Na)	mg/kg	355	262	1270	1040	1030	100	700332
Total Strontium (Sr)	mg/kg	23.0	14.0	49.6	36.4	33.2	0.1	700332
Total Thallium (Tl)	mg/kg	0.06	0.05	0.14	0.12	0.13	0.05	700332
Total Tin (Sn)	mg/kg	0.4	0.2	0.5	0.3	0.3	0.1	700332
Total Titanium (Ti)	mg/kg	294	287	727	466	626	1	700332
Total Uranium (U)	mg/kg	0.61	0.62	0.90	0.70	0.78	0.05	700332
Total Vanadium (V)	mg/kg	33.8	26.3	51.0	38.7	49.2	2	700332
Total Zinc (Zn)	mg/kg	80.6	32.3	64.8	54.6	86.0	1	700332
Total Zirconium (Zr)	mg/kg	8.2	8.3	13.9	7.6	12.8	0.5	700332

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728165	728166	728167	728168	728169		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	SITE 6 SA1	SITE 6 SA2	SITE 6 SA3	SITE 7 SA1	SITE 7 SA2	DL	QC Batch
Metals								
Total Aluminum (Al)	mg/kg	8170	8170	8480	5710	5890	100	700332
Total Antimony (Sb)	mg/kg	0.2	0.5	0.4	0.3	0.3	0.1	700332
Total Arsenic (As)	mg/kg	3.5	6.6	4.9	3.5	3.6	0.2	700332
Total Barium (Ba)	mg/kg	56.3	64.7	69.5	52.8	59.0	0.1	700332
Total Beryllium (Be)	mg/kg	0.3	0.3	0.3	0.2	0.2	0.1	700332
Total Bismuth (Bi)	mg/kg	0.3	0.3	0.3	0.2	0.1	0.1	700332
Total Boron (B)	mg/kg	<5	<5	<5	<5	<5	5	700332
Total Cadmium (Cd)	mg/kg	0.10	0.11	0.16	0.14	0.15	0.05	700332
Total Calcium (Ca)	mg/kg	2070	2190	3210	54200	46200	100	700332
Total Chromium (Cr)	mg/kg	22.7	12.5	19.9	11.7	10.1	1	700332
Total Cobalt (Co)	mg/kg	5.6	7.7	6.6	4.4	4.7	0.3	700332
Total Copper (Cu)	mg/kg	16.5	22.2	21.1	17.1	12.3	0.5	700332
Total Iron (Fe)	mg/kg	18600	20900	19800	12600	13400	100	700332
Total Lead (Pb)	mg/kg	68.3	37.8	62.5	42.2	30.7	0.1	700332
Total Lithium (Li)	mg/kg	15.6	11.1	13.5	8	8	5	700332
Total Magnesium (Mg)	mg/kg	4770	5250	5830	16600	14000	100	700332
Total Manganese (Mn)	mg/kg	218	279	280	253	258	0.2	700332
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700332
Total Molybdenum (Mo)	mg/kg	0.5	0.4	0.5	0.4	0.5	0.1	700332
Total Nickel (Ni)	mg/kg	9.1	11.4	10.9	10.6	10.4	0.8	700332
Total Phosphorus (P)	mg/kg	247	260	319	332	337	10	700332
Total Potassium (K)	mg/kg	2910	2350	2590	895	777	100	700332
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700332
Total Silver (Ag)	mg/kg	<0.05	0.05	0.06	<0.05	<0.05	0.05	700332
Total Sodium (Na)	mg/kg	273	129	178	324	183	100	700332
Total Strontium (Sr)	mg/kg	5.2	4.9	12.3	75.0	67.6	0.1	700332
Total Thallium (Tl)	mg/kg	0.21	0.16	0.18	0.07	0.06	0.05	700332
Total Tin (Sn)	mg/kg	0.3	0.3	0.4	0.3	0.2	0.1	700332
Total Titanium (Ti)	mg/kg	414	372	398	109	103	1	700332
Total Uranium (U)	mg/kg	1.09	0.69	0.76	0.37	0.40	0.05	700332
Total Vanadium (V)	mg/kg	16.1	19.5	19.8	10	10	2	700332
Total Zinc (Zn)	mg/kg	45.2	46.4	56.4	49.5	45.5	1	700332
Total Zirconium (Zr)	mg/kg	2.6	3.9	3.3	5.4	5.7	0.5	700332

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728170	728171	728172		728173	728174		
Sampling Date		2005/02/15	2005/02/15	2005/02/15		2005/02/15	2005/02/15		
	Units	SITE 7 SA3	SITE 8 SA1	SITE 8 SA2	QC Batch	SITE 8 SA3	SITE 19 SA1	DL	QC Batch
Metals									
Total Aluminum (Al)	mg/kg	12700	3770	4280	700332	4170	5030	100	700333
Total Antimony (Sb)	mg/kg	0.3	0.2	0.3	700332	0.5	0.4	0.1	700333
Total Arsenic (As)	mg/kg	4.4	2.8	8.1	700332	13.0	1.3	0.2	700333
Total Barium (Ba)	mg/kg	131	92.6	59.6	700332	196	31.2	0.1	700333
Total Beryllium (Be)	mg/kg	0.4	0.2	0.2	700332	0.3	0.2	0.1	700333
Total Bismuth (Bi)	mg/kg	0.2	<0.1	<0.1	700332	<0.1	0.2	0.1	700333
Total Boron (B)	mg/kg	<5	<5	<5	700332	<5	<5	5	700333
Total Cadmium (Cd)	mg/kg	0.09	0.18	0.20	700332	0.20	0.29	0.05	700333
Total Calcium (Ca)	mg/kg	18100	194000	165000	700332	155000	7400	100	700333
Total Chromium (Cr)	mg/kg	10.6	33.5	23.7	700332	16.9	11.7	1	700333
Total Cobalt (Co)	mg/kg	6.3	4.6	5.0	700332	4.8	4.7	0.3	700333
Total Copper (Cu)	mg/kg	14.4	7.3	8.7	700332	9.5	19.6	0.5	700333
Total Iron (Fe)	mg/kg	18400	11500	12500	700332	12700	13200	100	700333
Total Lead (Pb)	mg/kg	14.7	164	118	700332	134	43.7	0.1	700333
Total Lithium (Li)	mg/kg	13.2	8	8	700332	8	7	5	700333
Total Magnesium (Mg)	mg/kg	6580	25300	20000	700332	28500	3070	100	700333
Total Manganese (Mn)	mg/kg	395	400	347	700332	359	196	0.2	700333
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	700332	0.06	<0.05	0.05	700333
Total Molybdenum (Mo)	mg/kg	0.3	0.4	0.5	700332	0.4	0.5	0.1	700333
Total Nickel (Ni)	mg/kg	13.3	8.5	9.0	700332	14.7	11.2	0.8	700333
Total Phosphorus (P)	mg/kg	410	365	348	700332	356	282	10	700333
Total Potassium (K)	mg/kg	1530	390	376	700332	417	1200	100	700333
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	700332	<0.5	<0.5	0.5	700333
Total Silver (Ag)	mg/kg	0.06	0.14	0.17	700332	0.21	0.07	0.05	700333
Total Sodium (Na)	mg/kg	535	322	311	700332	238	471	100	700333
Total Strontium (Sr)	mg/kg	30.0	510	390	700332	340	28.6	0.1	700333
Total Thallium (Tl)	mg/kg	0.08	<0.05	<0.05	700332	0.05	0.11	0.05	700333
Total Tin (Sn)	mg/kg	0.3	0.2	0.1	700332	0.1	0.4	0.1	700333
Total Titanium (Ti)	mg/kg	246	36.4	35.9	700332	36.0	214	1	700333
Total Tungsten (W)	mg/kg					N/A	N/A	0.06	700333
Total Uranium (U)	mg/kg	0.36	0.29	0.28	700332	0.30	0.99	0.05	700333
Total Vanadium (V)	mg/kg	12.5	7	7	700332	8	13.9	2	700333
Total Zinc (Zn)	mg/kg	42.1	37.0	31.5	700332	30.5	54.0	1	700333
Total Zirconium (Zr)	mg/kg	27.2	5.9	9.5	700332	5.5	2.1	0.5	700333

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728175	728176	728177	728178	728179		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 19 SA2**	**SITE 19 SA3**	**SITE 19 DUP-1**	**SITE 20 SA1**	**SITE 20 SA2**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	4890	6980	4560	5160	5810	100	700333
Total Antimony (Sb)	mg/kg	<0.1	0.1	<0.1	0.2	0.2	0.1	700333
Total Arsenic (As)	mg/kg	0.4	1.0	0.9	7.5	6.9	0.2	700333
Total Barium (Ba)	mg/kg	33.1	53.8	34.0	39.2	34.4	0.1	700333
Total Beryllium (Be)	mg/kg	0.2	0.2	0.2	0.1	0.1	0.1	700333
Total Bismuth (Bi)	mg/kg	<0.1	0.1	0.1	0.1	0.2	0.1	700333
Total Boron (B)	mg/kg	<5	<5	<5	<5	<5	5	700333
Total Cadmium (Cd)	mg/kg	0.13	0.19	0.13	0.46	0.12	0.05	700333
Total Calcium (Ca)	mg/kg	7420	4940	9840	39300	49900	100	700333
Total Chromium (Cr)	mg/kg	10.8	18.0	10.4	10	9	1	700333
Total Cobalt (Co)	mg/kg	3.4	4.7	4.9	5.8	6.3	0.3	700333
Total Copper (Cu)	mg/kg	9.9	14.7	14.4	11.9	11.8	0.5	700333
Total Iron (Fe)	mg/kg	9980	12400	13600	17400	18000	100	700333
Total Lead (Pb)	mg/kg	21.1	42.0	25.0	16.4	14.8	0.1	700333
Total Lithium (Li)	mg/kg	7	10	7	11.9	11.8	5	700333
Total Magnesium (Mg)	mg/kg	2800	3790	2770	8280	11000	100	700333
Total Manganese (Mn)	mg/kg	173	204	222	379	470	0.2	700333
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700333
Total Molybdenum (Mo)	mg/kg	0.3	0.5	0.5	0.7	0.5	0.1	700333
Total Nickel (Ni)	mg/kg	9.2	9.9	11.0	15.6	16.7	0.8	700333
Total Phosphorus (P)	mg/kg	367	372	364	381	310	10	700333
Total Potassium (K)	mg/kg	1040	1650	1290	790	726	100	700333
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700333
Total Silver (Ag)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.05	0.05	700333
Total Sodium (Na)	mg/kg	317	534	453	306	193	100	700333
Total Strontium (Sr)	mg/kg	31.5	24.4	37.2	111	142	0.1	700333
Total Thallium (Tl)	mg/kg	0.06	0.09	0.07	0.05	<0.05	0.05	700333
Total Tin (Sn)	mg/kg	0.2	0.4	0.2	0.1	0.1	0.1	700333
Total Titanium (Ti)	mg/kg	226	394	223	110	123	1	700333
Total Tungsten (W)	mg/kg	N./A	N./A	N./A	N./A	N./A	0.06	700333
Total Uranium (U)	mg/kg	0.48	1.30	0.88	0.73	0.66	0.05	700333
Total Vanadium (V)	mg/kg	13.7	18.9	12.4	9	14.2	2	700333
Total Zinc (Zn)	mg/kg	37.9	61.3	42.6	44.1	36.6	1	700333
Total Zirconium (Zr)	mg/kg	2.1	3.0	2.1	2.7	2.9	0.5	700333

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Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728180	728181	728182	728183	728187		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	SITE 20 SA3	SITE 21 SA1	SITE 21 SA2	SITE 20 SA3 2.1	SITE 21 SA1 2.2	DL	QC Batch
Metals								
Total Aluminum (Al)	mg/kg	4850	2600	1780	2780	6990	100	700333
Total Antimony (Sb)	mg/kg	0.1	0.2	0.2	0.3	0.2	0.1	700333
Total Arsenic (As)	mg/kg	21.0	2.6	1.7	7.1	1.1	0.2	700333
Total Barium (Ba)	mg/kg	27.6	377	234	359	46.5	0.1	700333
Total Beryllium (Be)	mg/kg	<0.1	0.2	0.1	0.2	0.2	0.1	700333
Total Bismuth (Bi)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.1	700333
Total Boron (B)	mg/kg	<5	5	7	6	<5	5	700333
Total Cadmium (Cd)	mg/kg	0.34	0.13	0.07	0.10	0.27	0.05	700333
Total Calcium (Ca)	mg/kg	21100	162000	161000	149000	4280	100	700333
Total Chromium (Cr)	mg/kg	8	9	6	15.1	17.2	1	700333
Total Cobalt (Co)	mg/kg	6.2	2.5	1.7	2.7	4.8	0.3	700333
Total Copper (Cu)	mg/kg	11.7	6.9	10.8	13.7	17.1	0.5	700333
Total Iron (Fe)	mg/kg	18200	8770	5900	9440	13600	100	700333
Total Lead (Pb)	mg/kg	10.9	18.6	17.2	21.5	39.1	0.1	700333
Total Lithium (Li)	mg/kg	10	<5	<5	5	8	5	700333
Total Magnesium (Mg)	mg/kg	6050	34500	41400	34300	4750	100	700333
Total Manganese (Mn)	mg/kg	388	271	235	246	231	0.2	700333
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700333
Total Molybdenum (Mo)	mg/kg	0.5	0.9	0.5	1.0	0.5	0.1	700333
Total Nickel (Ni)	mg/kg	15.1	7.8	5.2	9.2	13.5	0.8	700333
Total Phosphorus (P)	mg/kg	258	320	268	341	501	10	700333
Total Potassium (K)	mg/kg	583	387	310	394	2070	100	700333
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700333
Total Silver (Ag)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.05	0.05	700333
Total Sodium (Na)	mg/kg	209	188	112	<100	634	100	700333
Total Strontium (Sr)	mg/kg	67.9	189	141	165	24.8	0.1	700333
Total Thallium (Tl)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.09	0.05	700333
Total Tin (Sn)	mg/kg	0.1	0.2	0.1	0.3	0.5	0.1	700333
Total Titanium (Ti)	mg/kg	98.0	11.9	8	15.3	403	1	700333
Total Tungsten (W)	mg/kg	N./A	N./A	N./A	N./A	N./A	0.06	700333
Total Uranium (U)	mg/kg	0.67	0.35	0.25	0.34	0.46	0.05	700333
Total Vanadium (V)	mg/kg	9	8	5	7	24.6	2	700333
Total Zinc (Zn)	mg/kg	36.4	24.6	17.0	30.1	58.6	1	700333
Total Zirconium (Zr)	mg/kg	2.9	4.7	3.7	4.3	6.9	0.5	700333

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728188	728189	728190	728191	728192		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	SITE ~~21~~ 22 SA2	SITE22 SA3	SITE 22 DUP-1	SITE 23 SA1	SITE 23 SA2	DL	QC Batch
Metals								
Total Aluminum (Al)	mg/kg	6990	7240	6640	5940	5780	100	700333
Total Antimony (Sb)	mg/kg	0.2	0.3	0.1	<0.1	0.1	0.1	700333
Total Arsenic (As)	mg/kg	1.4	2.1	1.2	0.8	1.5	0.2	700333
Total Barium (Ba)	mg/kg	48.3	59.3	45.4	70.5	70.2	0.1	700333
Total Beryllium (Be)	mg/kg	0.2	0.3	0.2	0.1	0.1	0.1	700333
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	700333
Total Boron (B)	mg/kg	<5	<5	<5	<5	<5	5	700333
Total Cadmium (Cd)	mg/kg	0.32	0.26	0.26	0.07	0.11	0.05	700333
Total Calcium (Ca)	mg/kg	6680	11100	3970	2570	2860	100	700333
Total Chromium (Cr)	mg/kg	44.3	25.8	16.8	9	15.4	1	700333
Total Cobalt (Co)	mg/kg	5.8	6.6	4.8	4.2	4.3	0.3	700333
Total Copper (Cu)	mg/kg	21.5	34.1	18.1	11.8	16.8	0.5	700333
Total Iron (Fe)	mg/kg	15700	20600	14000	14300	16400	100	700333
Total Lead (Pb)	mg/kg	160	40.3	35.3	2.1	10.2	0.1	700333
Total Lithium (Li)	mg/kg	8	7	8	9	6	5	700333
Total Magnesium (Mg)	mg/kg	5220	6080	4290	4170	3950	100	700333
Total Manganese (Mn)	mg/kg	256	321	238	225	237	0.2	700333
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700333
Total Molybdenum (Mo)	mg/kg	0.8	1.4	0.6	0.2	0.7	0.1	700333
Total Nickel (Ni)	mg/kg	15.6	20.8	13.4	6.1	7.3	0.8	700333
Total Phosphorus (P)	mg/kg	660	1080	514	407	548	10	700333
Total Potassium (K)	mg/kg	1520	1490	1610	2150	1740	100	700333
Total Selenium (Se)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5	0.5	700333
Total Silver (Ag)	mg/kg	0.07	0.08	0.06	<0.05	0.06	0.05	700333
Total Sodium (Na)	mg/kg	810	692	614	583	535	100	700333
Total Strontium (Sr)	mg/kg	38.8	71.9	22.7	15.7	31.1	0.1	700333
Total Thallium (Tl)	mg/kg	0.07	0.07	0.08	0.12	0.10	0.05	700333
Total Tin (Sn)	mg/kg	0.6	0.9	0.4	0.1	0.3	0.1	700333
Total Titanium (Ti)	mg/kg	400	484	392	465	451	1	700333
Total Tungsten (W)	mg/kg	N./A	N./A	N./A	N./A	N./A	0.06	700333
Total Uranium (U)	mg/kg	0.51	0.51	0.87	0.69	0.50	0.05	700333
Total Vanadium (V)	mg/kg	30.3	36.2	25.0	33.5	39.5	2	700333
Total Zinc (Zn)	mg/kg	78.8	70.7	57.9	27.7	47.5	1	700333
Total Zirconium (Zr)	mg/kg	9.0	15.2	7.5	3.8	9.1	0.5	700333

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728193	728194	728195	728196	728197		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/15	2005/02/15		
	Units	**SITE 23 SA3**	**SITE 23 DUP-1**	**SITE 24 SA1**	**SITE 24 SA2**	**SITE 24 SA3**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	4730	5120	12200	11100	11000	100	700333
Total Antimony (Sb)	mg/kg	<0.1	<0.1	0.3	0.3	0.2	0.1	700333
Total Arsenic (As)	mg/kg	2.1	0.6	3.2	3.1	2.6	0.2	700333
Total Barium (Ba)	mg/kg	59.8	66.8	51.4	57.5	44.0	0.1	700333
Total Beryllium (Be)	mg/kg	0.1	0.1	0.2	0.2	0.2	0.1	700333
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	700333
Total Boron (B)	mg/kg	<5	<5	<5	<5	<5	5	700333
Total Cadmium (Cd)	mg/kg	0.10	0.06	0.20	0.20	0.45	0.05	700333
Total Calcium (Ca)	mg/kg	2180	2470	11100	8430	11000	100	700333
Total Chromium (Cr)	mg/kg	12.8	6	17.0	17.0	16.7	1	700333
Total Cobalt (Co)	mg/kg	3.5	3.3	10.8	10.1	10.0	0.3	700333
Total Copper (Cu)	mg/kg	17.2	9.5	39.5	36.9	120	0.5	700333
Total Iron (Fe)	mg/kg	12300	10700	28800	26700	28300	100	700333
Total Lead (Pb)	mg/kg	6.4	1.8	12.5	16.2	19.9	0.1	700333
Total Lithium (Li)	mg/kg	5	8	8	8	8	5	700333
Total Magnesium (Mg)	mg/kg	2980	3390	9560	8950	9200	100	700333
Total Manganese (Mn)	mg/kg	179	191	572	517	533	0.2	700333
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700333
Total Molybdenum (Mo)	mg/kg	1.1	0.2	0.7	0.7	0.8	0.1	700333
Total Nickel (Ni)	mg/kg	7.4	5.0	13.9	12.7	11.9	0.8	700333
Total Phosphorus (P)	mg/kg	417	385	733	623	656	10	700333
Total Potassium (K)	mg/kg	1520	1850	812	671	682	100	700333
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700333
Total Silver (Ag)	mg/kg	<0.05	<0.05	0.07	0.07	0.28	0.05	700333
Total Sodium (Na)	mg/kg	505	577	705	559	536	100	700333
Total Strontium (Sr)	mg/kg	19.5	18.4	30.4	23.6	27.6	0.1	700333
Total Thallium (Tl)	mg/kg	0.09	0.11	<0.05	<0.05	<0.05	0.05	700333
Total Tin (Sn)	mg/kg	0.3	0.1	0.3	0.7	0.3	0.1	700333
Total Titanium (Ti)	mg/kg	342	375	591	471	478	1	700333
Total Tungsten (W)	mg/kg	N/A	N/A	N/A	N/A	N/A	0.06	700333
Total Uranium (U)	mg/kg	0.48	0.66	0.31	0.21	0.23	0.05	700333
Total Vanadium (V)	mg/kg	30.4	26.0	62.8	54.8	56.5	2	700333
Total Zinc (Zn)	mg/kg	39.7	24.9	68.8	317	87.2	1	700333
Total Zirconium (Zr)	mg/kg	6.9	3.2	15.1	11.0	12.8	0.5	700333

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504320
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials: CS

General Comments

Results relate only to the items tested.

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843
P.O. #:
Site Reference:

Quality Assurance Report

Maxxam Job Number: VA504320

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
697575 MM3	SPIKE	Soluble (2:1) pH	2005/02/23		101	%	96 - 104
	RPD	Soluble (2:1) pH	2005/02/23	0.3		%	20
697576 MM3	SPIKE	Soluble (2:1) pH	2005/02/23		100	%	96 - 104
	RPD	Soluble (2:1) pH	2005/02/23	0.7		%	20
697577 666	SPIKE	Soluble (2:1) pH	2005/02/22		101	%	96 - 104
	RPD	Soluble (2:1) pH	2005/02/22	2.2		%	20
700332 DH4	MATRIX SPIKE	Total Arsenic (As)	2005/02/25		101	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		99	%	75 - 125
		Total Chromium (Cr)	2005/02/25		92	%	75 - 125
		Total Cobalt (Co)	2005/02/25		97	%	75 - 125
		Total Copper (Cu)	2005/02/25		98	%	75 - 125
		Total Lead (Pb)	2005/02/25		100	%	75 - 125
		Total Mercury (Hg)	2005/02/25		82	%	75 - 125
		Total Selenium (Se)	2005/02/25		99	%	75 - 125
		Total Thallium (Tl)	2005/02/25		97	%	75 - 125
		Total Zinc (Zn)	2005/02/25		101	%	75 - 125
	SPIKE	Total Arsenic (As)	2005/02/25		110	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		102	%	75 - 125
		Total Chromium (Cr)	2005/02/25		102	%	75 - 125
		Total Cobalt (Co)	2005/02/25		105	%	75 - 125
		Total Copper (Cu)	2005/02/25		110	%	75 - 125
		Total Lead (Pb)	2005/02/25		106	%	75 - 125
		Total Mercury (Hg)	2005/02/25		76	%	75 - 125
		Total Selenium (Se)	2005/02/25		109	%	75 - 125
		Total Thallium (Tl)	2005/02/25		101	%	75 - 125
		Total Zinc (Zn)	2005/02/25		111	%	75 - 125
	BLANK	Total Aluminum (Al)	2005/02/25	<100		mg/kg	
		Total Antimony (Sb)	2005/02/25	<0.1		mg/kg	
		Total Arsenic (As)	2005/02/25	<0.2		mg/kg	
		Total Barium (Ba)	2005/02/25	<0.1		mg/kg	
		Total Beryllium (Be)	2005/02/25	<0.1		mg/kg	
		Total Bismuth (Bi)	2005/02/25	<0.1		mg/kg	
		Total Boron (B)	2005/02/25	<5		mg/kg	
		Total Cadmium (Cd)	2005/02/25	<0.05		mg/kg	
		Total Calcium (Ca)	2005/02/25	<100		mg/kg	
		Total Chromium (Cr)	2005/02/25	<1		mg/kg	
		Total Cobalt (Co)	2005/02/25	<0.3		mg/kg	
		Total Copper (Cu)	2005/02/25	<0.5		mg/kg	
		Total Iron (Fe)	2005/02/25	<100		mg/kg	
		Total Lead (Pb)	2005/02/25	<0.1		mg/kg	
		Total Lithium (Li)	2005/02/25	<5		mg/kg	
		Total Magnesium (Mg)	2005/02/25	<100		mg/kg	
		Total Manganese (Mn)	2005/02/25	<0.2		mg/kg	
		Total Mercury (Hg)	2005/02/25	<0.05		mg/kg	
		Total Molybdenum (Mo)	2005/02/25	<0.1		mg/kg	
		Total Nickel (Ni)	2005/02/25	<0.8		mg/kg	
		Total Phosphorus (P)	2005/02/25	<10		mg/kg	
		Total Potassium (K)	2005/02/25	<100		mg/kg	
		Total Selenium (Se)	2005/02/25	<0.5		mg/kg	
		Total Silver (Ag)	2005/02/25	<0.05		mg/kg	
		Total Sodium (Na)	2005/02/25	<100		mg/kg	
		Total Strontium (Sr)	2005/02/25	<0.1		mg/kg	
		Total Thallium (Tl)	2005/02/25	<0.05		mg/kg	
		Total Tin (Sn)	2005/02/25	<0.1		mg/kg	
		Total Titanium (Ti)	2005/02/25	<1		mg/kg	
		Total Uranium (U)	2005/02/25	<0.05		mg/kg	

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA504320

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
700332 DH4	BLANK	Total Vanadium (V)	2005/02/25	<2		mg/kg	
		Total Zinc (Zn)	2005/02/25	<1		mg/kg	
		Total Zirconium (Zr)	2005/02/25	<0.5		mg/kg	
	RPD	Total Aluminum (Al)	2005/02/25	1.8		%	35
		Total Antimony (Sb)	2005/02/25	NC		%	35
		Total Arsenic (As)	2005/02/25	3.5		%	35
		Total Barium (Ba)	2005/02/25	1.7		%	35
		Total Beryllium (Be)	2005/02/25	NC		%	35
		Total Bismuth (Bi)	2005/02/25	NC		%	35
		Total Cadmium (Cd)	2005/02/25	NC		%	35
		Total Calcium (Ca)	2005/02/25	3.1		%	35
		Total Chromium (Cr)	2005/02/25	2.1		%	35
		Total Cobalt (Co)	2005/02/25	1		%	35
		Total Copper (Cu)	2005/02/25	1.3		%	35
		Total Iron (Fe)	2005/02/25	1.5		%	35
		Total Lead (Pb)	2005/02/25	2.3		%	35
		Total Magnesium (Mg)	2005/02/25	3.1		%	35
		Total Manganese (Mn)	2005/02/25	2.0		%	35
		Total Mercury (Hg)	2005/02/25	NC		%	35
		Total Molybdenum (Mo)	2005/02/25	NC		%	35
		Total Nickel (Ni)	2005/02/25	2.0		%	35
		Total Phosphorus (P)	2005/02/25	3.4		%	35
		Total Potassium (K)	2005/02/25	1.2		%	35
		Total Selenium (Se)	2005/02/25	NC		%	35
		Total Silver (Ag)	2005/02/25	NC		%	35
		Total Sodium (Na)	2005/02/25	3.2		%	35
		Total Strontium (Sr)	2005/02/25	2.1		%	35
		Total Thallium (Tl)	2005/02/25	NC		%	35
		Total Tin (Sn)	2005/02/25	NC		%	35
		Total Titanium (Ti)	2005/02/25	1.4		%	35
		Total Vanadium (V)	2005/02/25	2.4		%	35
		Total Zinc (Zn)	2005/02/25	1.9		%	35
		Total Zirconium (Zr)	2005/02/25	1.2		%	35
700333 DH4	MATRIX SPIKE	Total Arsenic (As)	2005/02/25		110	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		101	%	75 - 125
		Total Chromium (Cr)	2005/02/25		100	%	75 - 125
		Total Cobalt (Co)	2005/02/25		99	%	75 - 125
		Total Copper (Cu)	2005/02/25		95	%	75 - 125
		Total Mercury (Hg)	2005/02/25		91	%	75 - 125
		Total Selenium (Se)	2005/02/25		100	%	75 - 125
		Total Thallium (Tl)	2005/02/25		95	%	75 - 125
		Total Tungsten (W)	2005/02/25		N.A	%	N/A
		Total Zinc (Zn)	2005/02/25		93	%	75 - 125
	SPIKE	Total Arsenic (As)	2005/02/25		107	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		103	%	75 - 125
		Total Chromium (Cr)	2005/02/25		96	%	75 - 125
		Total Cobalt (Co)	2005/02/25		99	%	75 - 125
		Total Copper (Cu)	2005/02/25		103	%	75 - 125
		Total Lead (Pb)	2005/02/25		108	%	75 - 125
		Total Mercury (Hg)	2005/02/25		103	%	75 - 125
		Total Selenium (Se)	2005/02/25		110	%	75 - 125
		Total Thallium (Tl)	2005/02/25		105	%	75 - 125
		Total Tungsten (W)	2005/02/25		N.A	%	N/A
		Total Zinc (Zn)	2005/02/25		104	%	75 - 125
	BLANK	Total Aluminum (Al)	2005/02/25	<100		mg/kg	
		Total Antimony (Sb)	2005/02/25	<0.1		mg/kg	

Quality Assurance Report (Continued)

Maxxam Job Number: VA504320

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
700333 DH4	BLANK	Total Arsenic (As)	2005/02/25	<0.2		mg/kg	
		Total Barium (Ba)	2005/02/25	<0.1		mg/kg	
		Total Beryllium (Be)	2005/02/25	<0.1		mg/kg	
		Total Bismuth (Bi)	2005/02/25	<0.1		mg/kg	
		Total Boron (B)	2005/02/25	<5		mg/kg	
		Total Cadmium (Cd)	2005/02/25	<0.05		mg/kg	
		Total Calcium (Ca)	2005/02/25	<100		mg/kg	
		Total Chromium (Cr)	2005/02/25	<1		mg/kg	
		Total Cobalt (Co)	2005/02/25	<0.3		mg/kg	
		Total Copper (Cu)	2005/02/25	<0.5		mg/kg	
		Total Iron (Fe)	2005/02/25	<100		mg/kg	
		Total Lead (Pb)	2005/02/25	<0.1		mg/kg	
		Total Lithium (Li)	2005/02/25	<5		mg/kg	
		Total Magnesium (Mg)	2005/02/25	<100		mg/kg	
		Total Manganese (Mn)	2005/02/25	<0.2		mg/kg	
		Total Mercury (Hg)	2005/02/25	<0.05		mg/kg	
		Total Molybdenum (Mo)	2005/02/25	<0.1		mg/kg	
		Total Nickel (Ni)	2005/02/25	<0.8		mg/kg	
		Total Phosphorus (P)	2005/02/25	<10		mg/kg	
		Total Potassium (K)	2005/02/25	<100		mg/kg	
		Total Selenium (Se)	2005/02/25	<0.5		mg/kg	
		Total Silver (Ag)	2005/02/25	<0.05		mg/kg	
		Total Sodium (Na)	2005/02/25	<100		mg/kg	
		Total Strontium (Sr)	2005/02/25	<0.1		mg/kg	
		Total Thallium (Tl)	2005/02/25	<0.05		mg/kg	
		Total Tin (Sn)	2005/02/25	<0.1		mg/kg	
		Total Titanium (Ti)	2005/02/25	<1		mg/kg	
		Total Tungsten (W)	2005/02/25	N./A, DL=0.06		mg/kg	
		Total Uranium (U)	2005/02/25	<0.05		mg/kg	
		Total Vanadium (V)	2005/02/25	<2		mg/kg	
		Total Zinc (Zn)	2005/02/25	<1		mg/kg	
		Total Zirconium (Zr)	2005/02/25	<0.5		mg/kg	
	RPD	Total Aluminum (Al)	2005/02/25	0.08		%	35
		Total Antimony (Sb)	2005/02/25	NC		%	35
		Total Arsenic (As)	2005/02/25	2.9		%	35
		Total Barium (Ba)	2005/02/25	2.5		%	35
		Total Beryllium (Be)	2005/02/25	NC		%	35
		Total Bismuth (Bi)	2005/02/25	NC		%	35
		Total Boron (B)	2005/02/25	NC		%	35
		Total Cadmium (Cd)	2005/02/25	NC		%	35
		Total Calcium (Ca)	2005/02/25	0.6		%	35
		Total Chromium (Cr)	2005/02/25	1.0		%	35
		Total Cobalt (Co)	2005/02/25	3.3		%	35
		Total Copper (Cu)	2005/02/25	2.4		%	35
		Total Iron (Fe)	2005/02/25	2.4		%	35
		Total Lead (Pb)	2005/02/25	3.4		%	35
		Total Lithium (Li)	2005/02/25	NC		%	35
		Total Magnesium (Mg)	2005/02/25	2.8		%	35
		Total Manganese (Mn)	2005/02/25	2.0		%	35
		Total Mercury (Hg)	2005/02/25	NC		%	35
		Total Molybdenum (Mo)	2005/02/25	NC		%	35
		Total Nickel (Ni)	2005/02/25	2.0		%	35
		Total Phosphorus (P)	2005/02/25	2.4		%	35
		Total Potassium (K)	2005/02/25	NC		%	35
		Total Selenium (Se)	2005/02/25	NC		%	35
		Total Silver (Ag)	2005/02/25	NC		%	35

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA504320

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
700333 DH4	RPD	Total Sodium (Na)	2005/02/25	NC		%	35
		Total Strontium (Sr)	2005/02/25	2.2		%	35
		Total Thallium (Tl)	2005/02/25	NC		%	35
		Total Tin (Sn)	2005/02/25	NC		%	35
		Total Titanium (Ti)	2005/02/25	0.5		%	35
		Total Tungsten (W)	2005/02/25	NC		%	35
		Total Uranium (U)	2005/02/25	5.9		%	35
		Total Vanadium (V)	2005/02/25	NC		%	35
		Total Zinc (Zn)	2005/02/25	0.8		%	35
		Total Zirconium (Zr)	2005/02/25	0.3		%	35
702495 BH2	MATRIX SPIKE	Chloride (Cl)	2005/02/25		102	%	80 - 120
	SPIKE	Chloride (Cl)	2005/02/25		102	%	80 - 120
	BLANK	Chloride (Cl)	2005/02/25	<50		ug/g	
	RPD	Chloride (Cl)	2005/02/25	NC		%	35
703545 BH2	MATRIX SPIKE	Chloride (Cl)	2005/02/25		102	%	80 - 120
	SPIKE	Chloride (Cl)	2005/02/25		100	%	80 - 120
	BLANK	Chloride (Cl)	2005/02/25	<50		ug/g	
	RPD	Chloride (Cl)	2005/02/25	4.5		%	35
703593 BH2	MATRIX SPIKE	Chloride (Cl)	2005/02/25		101	%	80 - 120
	SPIKE	Chloride (Cl)	2005/02/25		102	%	80 - 120
	BLANK	Chloride (Cl)	2005/02/25	<50		ug/g	
	RPD	Chloride (Cl)	2005/02/25	NC		%	35

N/A = Not Applicable
NC = Non-calculable
RPD = Relative Percent Difference

JACQUES WHITFORD ENVIRONMENT LTD.
JWEL-BBY
4370 DOMINION ST. 5TH FLOOR
BURNABY, BC
Canada V5G4L7

Attention: Liliana Jerade

Report Date: 2005/03/01

Your Project #: BCV61843
Your C.O.C. #: 14746

ANALYTICAL REPORT

MAXXAM JOB #: A504348
Received: 2005/02/18, 12:50

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (IC)(1)	7	N/A	2005/02/24	ING303 Rev.3.4	SM - 4110B

(1) SCC/CAEAL

MAXXAM Analytics Inc.

LEE CARD

LC4/lc4
encl.

Total cover pages: 1

Maxxam Analytics Inc

Maxxam Job #: A504348
Report Date: 2005/03/01

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		728354	728362	728363	728364	728365	728366		
Sampling Date		2005/02/15	2005/02/15	2005/02/15	2005/02/16	2005/02/16	2005/02/17		
	Units	**SITE 1**	**SITE 3**	**SITE 4**	**SITE 6**	**SITE 8**	**SITE 21**	**DL**	**QC Batch**
Anions									
Dissolved Chloride (Cl)	mg/L	0.6	4.6	4.1	24.8	11.1	<0.5	0.5	700669
Please check for attached comments									

Maxxam ID		728367		
Sampling Date		2005/02/17		
	Units	**SITE 22**	**DL**	**QC Batch**
Anions				
Dissolved Chloride (Cl)	mg/L	9.9	0.5	700669
Please check for attached comments				

Maxxam Analytics Inc

Maxxam Job #: A504348
Report Date: 2005/03/01

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843
Site Reference:
Sampler Initials:

General Comments

Results relate only to the items tested.

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843
P.O. #:
Site Reference:

Quality Assurance Report

Maxxam Job Number: VA504348

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
700669 BH2	MATRIX SPIKE	Dissolved Chloride (Cl)	2005/02/24		104	%	80 - 120
	SPIKE	Dissolved Chloride (Cl)	2005/02/24		101	%	80 - 120
	BLANK	Dissolved Chloride (Cl)	2005/02/24	<0.5		mg/L	
	RPD	Dissolved Chloride (Cl)	2005/02/24	NC		%	25

NC = Non-calculable
RPD = Relative Percent Difference

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JACQUES WHITFORD Date: FEB 21 /05 Initial: GS C of C #: 147460

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	/																						
2	/																						
3	/																						
4	/																						
5	/																						
6	/																						
7	/																						
8																							
9																							
10																							
11																							
12																							

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

○ Poured off anions

Comments: _____

	Temperature			Average
Cooler #1				
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST F 14746

COMPANY NAME: Jacques Whitford

PH. #: 604-436-3014
E-mail:
FAX #: 604-436-3752

COMPANY ADDRESS: 1496

CLIENT PROJECT ID: (#) BV61843

SAMPLER NAME (PRINT): Cory Cauzzi / Sten McBride

PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	H&D			
1	SITE 1 MISSING	728198		✓			1	15/02/05			728	354		
2	SITE 3 MISSING	728199					1	15/02/05				362		
3	SITE 4 MISSING	728200					1	15/02/05				363		
4	SITE 6 "	728201					1	16/02/05				364		
5	SITE 8 "	728202					1	16/02/05				365		
6	SITE 21 "	728203					1	17/02/05				366		
7	SITE 22 "	728204					1	17/02/05				367		
8														
9														
10														
11														
12														

Soil = CSR metals + EC

Water = Cl

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

- STANDARD 5 BUSINESS DAYS ☐
- RUSH 3 BUSINESS DAYS ☐
- RUSH 2 BUSINESS DAYS ☐
- URGENT 1 BUSINESS DAY ☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER:

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE:

- ☐ CCME
- ☑ CSR
- ☐ ALBERTA TIER 1
- ☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS:

JARS USED: 7

LAB USE ONLY

ARRIVAL TEMPERATURE °C: 1, 1, 1

DUE DATE:

LOG IN CHECK:

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 18/02/05	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY FEB 19/05	TIME: 1250	RECEIVED BY LABORATORY:

COCFORM - BC - 01/05

ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

Page 26 of 33 ESTRA-2017-70442

JACQUES WHITFORD ENVIRONMENT LTD.
JWEL-BBY
4370 DOMINION ST. 5TH FLOOR
BURNABY, BC
Canada V5G4L7

Attention: Liliana Jerade

Report Date: 2005/03/02

Your Project #: BCV61843.6
Your C.O.C. #: 15256

ANALYTICAL REPORT

MAXXAM JOB #: A504357
Received: 2005/02/21, 12:35

Sample Matrix: Soil
Samples Received: 41

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (soil)	41	2005/02/25	2005/02/25	ING303 Rev.3.4	Carter, SSMA 18.2.4
Elements by ICPMS (total)	15	2005/02/22	2005/02/25	ING112 Rev 1.5	Based on EPA 200.8
Elements by ICPMS (total)	26	2005/02/25	2005/02/25	ING112 Rev 1.5	Based on EPA 200.8
pH (2:1 DI Water Extract)(1)	41	2005/02/22	2005/02/22	ING416 Rev.1.2	Carter, SSMA 16.2

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (IC)(1)	3	N/A	2005/02/24	ING303 Rev.3.4	SM - 4110B

(1) SCC/CAEAL

MAXXAM Analytics Inc.

CLIFTON SAMOILOFF

CS/lc4
encl.

Total cover pages: 1

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		728389	728393	728394	728395	728396	728397		
Sampling Date		2005/02/16	2005/02/16	2005/02/16	2005/02/16	2005/02/16	2005/02/16		
	Units	**SITE9 SA1**	**SITE9 SA2**	**SITE9 SA3**	**SITE10 SA1**	**SITE10 SA2**	**SITE10 SA3**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	N/A	7.36	5.87	5.90	9.01	7.22	7.28	0.01	697675
ANIONS									
Chloride (Cl)	ug/g	<50	61	<50	<50	109	<50	50	703593
Please check for attached comments									

Maxxam ID		728398	728399	728400	728401	728402	728403		
Sampling Date		2005/02/16	2005/02/16	2005/02/16	2005/02/16	2005/02/16	2005/02/16		
	Units	**SITE11 SA1**	**SITE11 SA2**	**SITE11 DUP**	**SITE11 SA3**	**SITE12 SA1**	**SITE12 SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	N/A	9.34	8.60	8.47	7.66	9.38	7.97	0.01	697675
ANIONS									
Chloride (Cl)	ug/g	256	57	88	<50	<50	<50	50	703593
Please check for attached comments									

Maxxam ID		728404	728405	728406		728407		
Sampling Date		2005/02/16	2005/02/17	2005/02/17		2005/02/17		
	Units	**SITE12 SA3**	**SITE13 SA1**	**SITE13 SA2**	**QC Batch**	**SITE13 SA3**	**DL**	**QC Batch**
Misc. Inorganics								
Soluble (2:1) pH	N/A	7.47	9.06	7.46	697675	7.27	0.01	697675
ANIONS								
Chloride (Cl)	ug/g	299	<50	97	703593	<50	50	703688
Please check for attached comments								

Maxxam ID		728408	728409	728410	728411	728412	728413		
Sampling Date		2005/02/17	2005/02/17	2005/02/17	2005/02/17	2005/02/17	2005/02/17		
	Units	**SITE14 SA1**	**SITE14 SA2**	**SITE14 SA3**	**SITE15 SA1**	**SITE15 SA2**	**SITE15 SA3**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	N/A	9.37	8.04	7.05	9.09	8.71	8.84	0.01	697677
ANIONS									
Chloride (Cl)	ug/g	187	89	<50	<50	<50	<50	50	703688
Please check for attached comments									

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		728414	728415	728416	728417	728418	728419		
Sampling Date		2005/02/17	2005/02/17	2005/02/17	2005/02/17	2005/02/17	2005/02/17		
	Units	SITE16 SA1	SITE16 SA2	SITE16 DUP	SITE16 SA3	SITE17 SA1	SITE17 SA2	DL	QC Batch
Misc. Inorganics									
Soluble (2:1) pH	N/A	9.50	7.75	7.73	7.48	6.93	7.27	0.01	697677
ANIONS									
Chloride (Cl)	ug/g	59	82	51	50	114	<50	50	703688

Please check for attached comments

Maxxam ID		728420	728421	728422	728423	728424	728425		
Sampling Date		2005/02/17	2005/02/17	2005/02/17	2005/02/17	2005/02/18	2005/02/18		
	Units	SITE17 SA3	SITE18 SA1	SITE18 SA2	SITE18 SA3	SITE25 SA1	SITE25 SA2	DL	QC Batch
Misc. Inorganics									
Soluble (2:1) pH	N/A	7.75	7.77	7.75	7.82	8.24	7.18	0.01	697677
ANIONS									
Chloride (Cl)	ug/g	<50	376	220	74	<50	<50	50	703688

Please check for attached comments

Maxxam ID		728426		728427		728428	728429		
Sampling Date		2005/02/18		2005/02/18		2005/02/18	2005/02/18		
	Units	SITE25 SA3	QC Batch	SITE26 SA1	QC Batch	SITE26 DUP	SITE27 SA1	DL	QC Batch
Misc. Inorganics									
Soluble (2:1) pH	N/A	7.86	697677	7.26	697677	7.09	7.11	0.01	697679
ANIONS									
Chloride (Cl)	ug/g	<50	703688	<50	703689	<50	76	50	703689

Please check for attached comments

Maxxam ID		728430	728431	728432		
Sampling Date		2005/02/18	2005/02/18	2005/02/18		
	Units	SITE27 SA2	SITE27 DUP	SITE27 SA3	DL	QC Batch
Misc. Inorganics						
Soluble (2:1) pH	N/A	6.74	6.96	7.80	0.01	697679
ANIONS						
Chloride (Cl)	ug/g	88	79	80	50	703689

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728389	728393	728394	728395	728396		
Sampling Date		2005/02/16	2005/02/16	2005/02/16	2005/02/16	2005/02/16		
	Units	**SITE9 SA1**	**SITE9 SA2**	**SITE9 SA3**	**SITE10 SA1**	**SITE10 SA2**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	4610	4290	5100	8460	8190	100	700335
Total Antimony (Sb)	mg/kg	<0.1	<0.1	<0.1	0.3	0.4	0.1	700335
Total Arsenic (As)	mg/kg	0.8	0.8	1.2	3.7	4.3	0.2	700335
Total Barium (Ba)	mg/kg	29.5	37.0	40.0	76.6	155	0.1	700335
Total Beryllium (Be)	mg/kg	<0.1	<0.1	<0.1	0.2	0.3	0.1	700335
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	700335
Total Cadmium (Cd)	mg/kg	<0.05	<0.05	<0.05	0.38	0.72	0.05	700335
Total Calcium (Ca)	mg/kg	1270	1150	1200	82000	34900	100	700335
Total Chromium (Cr)	mg/kg	6	7	9	70.0	33.9	1	700335
Total Cobalt (Co)	mg/kg	3.1	2.9	3.4	11.0	8.6	0.3	700335
Total Copper (Cu)	mg/kg	10.9	9.2	12.8	38.3	29.4	0.5	700335
Total Iron (Fe)	mg/kg	8750	7440	8320	22000	19200	100	700335
Total Lead (Pb)	mg/kg	4.8	1.6	4.8	48.0	11.9	0.1	700335
Total Magnesium (Mg)	mg/kg	2430	2100	2630	16300	8360	100	700335
Total Manganese (Mn)	mg/kg	130	106	129	465	463	0.2	700335
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700335
Total Molybdenum (Mo)	mg/kg	0.1	0.1	0.2	1.2	0.8	0.1	700335
Total Nickel (Ni)	mg/kg	3.9	4.1	5.6	80.0	43.5	0.8	700335
Total Phosphorus (P)	mg/kg	291	290	283	651	586	10	700335
Total Potassium (K)	mg/kg	794	883	1020	666	1180	100	700335
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700335
Total Silver (Ag)	mg/kg	<0.05	<0.05	<0.05	0.07	0.08	0.05	700335
Total Sodium (Na)	mg/kg	248	186	228	309	186	100	700335
Total Strontium (Sr)	mg/kg	7.6	6.9	8.1	112	56.8	0.1	700335
Total Thallium (Tl)	mg/kg	<0.05	<0.05	<0.05	0.06	0.07	0.05	700335
Total Tin (Sn)	mg/kg	0.3	0.2	0.2	0.5	0.4	0.1	700335
Total Titanium (Ti)	mg/kg	257	250	311	310	204	1	700335
Total Vanadium (V)	mg/kg	18.1	17.0	17.4	34.7	34.6	2	700335
Total Zinc (Zn)	mg/kg	16.3	14.8	19.0	63.6	64.1	1	700335
Total Zirconium (Zr)	mg/kg	1.2	0.8	1.1	5.1	8.9	0.5	700335

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728397		728398	728399	728400	728401		
Sampling Date		2005/02/16		2005/02/16	2005/02/16	2005/02/16	2005/02/16		
	Units	**SITE10 SA3**	**QC Batch**	**SITE11 SA1**	**SITE11 SA2**	**SITE11 DUP**	**SITE11 SA3**	**DL**	**QC Batch**
Metals									
Total Aluminum (Al)	mg/kg	9220	700335	12400	14500	14200	14700	100	700358
Total Antimony (Sb)	mg/kg	0.5	700335	0.5	0.4	0.4	0.3	0.1	700358
Total Arsenic (As)	mg/kg	3.8	700335	6.2	6.3	5.7	6.9	0.2	700358
Total Barium (Ba)	mg/kg	194	700335	100	112	99.3	133	0.1	700358
Total Beryllium (Be)	mg/kg	0.3	700335	0.4	0.3	0.3	0.4	0.1	700358
Total Bismuth (Bi)	mg/kg	<0.1	700335	<0.1	<0.1	<0.1	<0.1	0.1	700358
Total Cadmium (Cd)	mg/kg	0.40	700335	0.16	0.17	0.16	0.15	0.05	700358
Total Calcium (Ca)	mg/kg	37800	700335	20000	19800	22100	11100	100	700358
Total Chromium (Cr)	mg/kg	29.4	700335	30.9	36.4	34.6	46.8	1	700358
Total Cobalt (Co)	mg/kg	8.9	700335	12.6	13.7	12.9	12.6	0.3	700358
Total Copper (Cu)	mg/kg	27.5	700335	99.1	140	92.2	53.1	0.5	700358
Total Iron (Fe)	mg/kg	19900	700335	31400	32200	29900	30400	100	700358
Total Lead (Pb)	mg/kg	7.2	700335	48.9	32.4	31.9	19.7	0.1	700358
Total Magnesium (Mg)	mg/kg	6520	700335	12300	13600	13400	11800	100	700358
Total Manganese (Mn)	mg/kg	548	700335	628	664	668	675	0.2	700358
Total Mercury (Hg)	mg/kg	<0.05	700335	0.10	0.09	0.11	<0.05	0.05	700358
Total Molybdenum (Mo)	mg/kg	0.5	700335	0.8	0.8	0.8	0.7	0.1	700358
Total Nickel (Ni)	mg/kg	37.4	700335	35.0	40.0	35.8	43.1	0.8	700358
Total Phosphorus (P)	mg/kg	636	700335	966	1070	1080	1310	10	700358
Total Potassium (K)	mg/kg	1210	700335	1230	1620	1380	2230	100	700358
Total Selenium (Se)	mg/kg	<0.5	700335	<0.5	0.5	<0.5	0.7	0.5	700358
Total Silver (Ag)	mg/kg	0.05	700335	0.10	0.11	0.09	0.11	0.05	700358
Total Sodium (Na)	mg/kg	<100	700335	1510	1130	940	585	100	700358
Total Strontium (Sr)	mg/kg	52.2	700335	92.2	91.8	96.3	78.0	0.1	700358
Total Thallium (Tl)	mg/kg	0.07	700335	0.06	0.07	0.06	0.10	0.05	700358
Total Tin (Sn)	mg/kg	0.5	700335	0.4	0.4	0.3	0.4	0.1	700358
Total Titanium (Ti)	mg/kg	193	700335	592	710	650	678	1	700358
Total Vanadium (V)	mg/kg	36.2	700335	80.3	89.6	83.7	88.7	2	700358
Total Zinc (Zn)	mg/kg	60.0	700335	69.4	74.1	70.3	73.6	1	700358
Total Zirconium (Zr)	mg/kg	7.7	700335	17.8	17.4	19.0	22.9	0.5	700358

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728402	728403	728404	728405	728406		
Sampling Date		2005/02/16	2005/02/16	2005/02/16	2005/02/17	2005/02/17		
	Units	SITE12 SA1	SITE12 SA2	SITE12 SA3	SITE13 SA1	SITE13 SA2	DL	QC Batch
Metals								
Total Aluminum (Al)	mg/kg	11700	10400	11200	13400	21000	100	700358
Total Antimony (Sb)	mg/kg	0.4	0.4	0.4	0.2	<0.1	0.1	700358
Total Arsenic (As)	mg/kg	5.7	5.3	6.3	2.8	0.6	0.2	700358
Total Barium (Ba)	mg/kg	76.4	54.0	76.1	65.0	58.5	0.1	700358
Total Beryllium (Be)	mg/kg	0.1	0.2	0.2	0.4	0.5	0.1	700358
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	700358
Total Cadmium (Cd)	mg/kg	0.36	0.32	0.40	0.13	0.08	0.05	700358
Total Calcium (Ca)	mg/kg	11400	10500	10200	11700	11300	100	700358
Total Chromium (Cr)	mg/kg	24.9	26.4	21.6	27.3	25.9	1	700358
Total Cobalt (Co)	mg/kg	9.8	9.4	10.0	15.4	25.9	0.3	700358
Total Copper (Cu)	mg/kg	37.7	35.9	39.9	33.2	38.6	0.5	700358
Total Iron (Fe)	mg/kg	26800	24200	25700	31900	43300	100	700358
Total Lead (Pb)	mg/kg	13.7	22.1	19.6	10.6	3.6	0.1	700358
Total Magnesium (Mg)	mg/kg	9040	8620	8240	12900	22300	100	700358
Total Manganese (Mn)	mg/kg	474	431	487	545	581	0.2	700358
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700358
Total Molybdenum (Mo)	mg/kg	1.3	1.2	1.5	0.6	0.4	0.1	700358
Total Nickel (Ni)	mg/kg	23.6	24.1	23.8	46.0	108	0.8	700358
Total Phosphorus (P)	mg/kg	746	711	857	1100	1090	10	700358
Total Potassium (K)	mg/kg	1680	1490	1750	967	2310	100	700358
Total Selenium (Se)	mg/kg	0.7	0.6	0.9	<0.5	<0.5	0.5	700358
Total Silver (Ag)	mg/kg	0.23	0.15	0.18	0.09	0.10	0.05	700358
Total Sodium (Na)	mg/kg	389	197	144	1490	1790	100	700358
Total Strontium (Sr)	mg/kg	37.5	38.0	36.6	82.5	212	0.1	700358
Total Thallium (Tl)	mg/kg	0.10	0.08	0.10	0.07	0.07	0.05	700358
Total Tin (Sn)	mg/kg	0.2	0.2	0.3	0.4	0.5	0.1	700358
Total Titanium (Ti)	mg/kg	453	460	507	847	757	1	700358
Total Vanadium (V)	mg/kg	41.8	39.4	39.9	64.4	37.0	2	700358
Total Zinc (Zn)	mg/kg	65.6	57.6	72.0	56.1	61.8	1	700358
Total Zirconium (Zr)	mg/kg	11.4	9.8	12.4	39.6	54.3	0.5	700358

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728407	728408	728409	728410	728411		
Sampling Date		2005/02/17	2005/02/17	2005/02/17	2005/02/17	2005/02/17		
	Units	SITE13 SA3	SITE14 SA1	SITE14 SA2	SITE14 SA3	SITE15 SA1	DL	QC Batch
Metals								
Total Aluminum (Al)	mg/kg	19700	10200	12700	15700	9020	100	700358
Total Antimony (Sb)	mg/kg	<0.1	0.2	0.2	0.2	0.3	0.1	700358
Total Arsenic (As)	mg/kg	0.4	1.5	1.9	2.0	2.9	0.2	700358
Total Barium (Ba)	mg/kg	9.5	68.5	91.2	113	76.1	0.1	700358
Total Beryllium (Be)	mg/kg	0.3	0.2	0.4	0.4	0.2	0.1	700358
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	700358
Total Cadmium (Cd)	mg/kg	<0.05	0.18	0.15	0.15	0.19	0.05	700358
Total Calcium (Ca)	mg/kg	9220	6500	9430	5810	18300	100	700358
Total Chromium (Cr)	mg/kg	24.6	27.9	68.1	61.6	30.4	1	700358
Total Cobalt (Co)	mg/kg	40.1	11.9	20.7	22.8	11.5	0.3	700358
Total Copper (Cu)	mg/kg	33.2	29.9	37.9	33.7	26.8	0.5	700358
Total Iron (Fe)	mg/kg	60900	25300	36800	41400	25800	100	700358
Total Lead (Pb)	mg/kg	1.7	20.4	8.1	7.4	36.2	0.1	700358
Total Magnesium (Mg)	mg/kg	32800	11000	16500	13800	11800	100	700358
Total Manganese (Mn)	mg/kg	1020	440	597	735	613	0.2	700358
Total Mercury (Hg)	mg/kg	<0.05	0.07	<0.05	<0.05	0.06	0.05	700358
Total Molybdenum (Mo)	mg/kg	0.3	0.7	0.6	0.7	0.7	0.1	700358
Total Nickel (Ni)	mg/kg	164	46.7	95.3	85.6	53.4	0.8	700358
Total Phosphorus (P)	mg/kg	1000	770	902	986	740	10	700358
Total Potassium (K)	mg/kg	707	1120	1590	2550	776	100	700358
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700358
Total Silver (Ag)	mg/kg	<0.05	0.05	0.08	0.07	0.07	0.05	700358
Total Sodium (Na)	mg/kg	312	1390	757	548	523	100	700358
Total Strontium (Sr)	mg/kg	29.3	37.9	59.0	47.6	61.4	0.1	700358
Total Thallium (Tl)	mg/kg	<0.05	<0.05	0.07	0.07	0.08	0.05	700358
Total Tin (Sn)	mg/kg	0.3	0.3	0.5	0.5	0.4	0.1	700358
Total Titanium (Ti)	mg/kg	98.4	575	752	1030	511	1	700358
Total Vanadium (V)	mg/kg	10.4	43.2	52.5	66.0	43.2	2	700358
Total Zinc (Zn)	mg/kg	83.1	53.3	65.4	75.4	56.9	1	700358
Total Zirconium (Zr)	mg/kg	22.9	22.4	34.1	34.4	19.5	0.5	700358

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728412	728413	728414	728415	728416		
Sampling Date		2005/02/17	2005/02/17	2005/02/17	2005/02/17	2005/02/17		
	Units	SITE15 SA2	SITE15 SA3	SITE16 SA1	SITE16 SA2	SITE16 DUP	DL	QC Batch
Metals								
Total Aluminum (Al)	mg/kg	8400	8130	4420	5970	6600	100	700358
Total Antimony (Sb)	mg/kg	0.2	0.3	0.9	0.6	0.7	0.1	700358
Total Arsenic (As)	mg/kg	2.8	3.2	4.4	3.9	4.5	0.2	700358
Total Barium (Ba)	mg/kg	73.6	82.9	47.6	60.9	51.0	0.1	700358
Total Beryllium (Be)	mg/kg	0.3	0.3	0.1	0.2	0.1	0.1	700358
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	700358
Total Cadmium (Cd)	mg/kg	0.18	0.16	0.44	0.38	0.33	0.05	700358
Total Calcium (Ca)	mg/kg	17200	18200	4410	5960	6020	100	700358
Total Chromium (Cr)	mg/kg	23.7	26.3	14.8	17.9	17.0	1	700358
Total Cobalt (Co)	mg/kg	11.7	11.6	7.1	7.5	7.4	0.3	700358
Total Copper (Cu)	mg/kg	26.8	26.1	42.1	37.6	39.2	0.5	700358
Total Iron (Fe)	mg/kg	26000	24700	16900	17300	17200	100	700358
Total Lead (Pb)	mg/kg	4.2	15.6	14.5	28.7	26.8	0.1	700358
Total Magnesium (Mg)	mg/kg	10400	12300	4020	5320	5310	100	700358
Total Manganese (Mn)	mg/kg	675	567	360	434	452	0.2	700358
Total Mercury (Hg)	mg/kg	0.05	0.05	0.08	<0.05	0.06	0.05	700358
Total Molybdenum (Mo)	mg/kg	0.7	0.5	1.8	1.5	1.3	0.1	700358
Total Nickel (Ni)	mg/kg	47.9	59.2	25.4	25.2	22.4	0.8	700358
Total Phosphorus (P)	mg/kg	1010	821	323	460	461	10	700358
Total Potassium (K)	mg/kg	625	586	554	656	666	100	700358
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	0.5	<0.5	0.5	700358
Total Silver (Ag)	mg/kg	0.07	0.06	0.14	0.12	0.09	0.05	700358
Total Sodium (Na)	mg/kg	300	345	471	464	492	100	700358
Total Strontium (Sr)	mg/kg	63.8	58.7	15.9	33.6	26.4	0.1	700358
Total Thallium (Tl)	mg/kg	0.09	0.08	0.09	0.07	0.08	0.05	700358
Total Tin (Sn)	mg/kg	0.2	0.2	0.2	0.3	0.3	0.1	700358
Total Titanium (Ti)	mg/kg	388	368	266	342	326	1	700358
Total Vanadium (V)	mg/kg	40.5	38.2	28.0	29.9	30.8	2	700358
Total Zinc (Zn)	mg/kg	50.8	47.6	62.9	72.3	68.2	1	700358
Total Zirconium (Zr)	mg/kg	16.3	14.7	12.0	9.5	9.2	0.5	700358

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728417		728418	728419	728420	728421		
Sampling Date		2005/02/17		2005/02/17	2005/02/17	2005/02/17	2005/02/17		
	Units	SITE16 SA3	QC Batch	SITE17 SA1	SITE17 SA2	SITE17 SA3	SITE18 SA1	DL	QC Batch
Metals									
Total Aluminum (Al)	mg/kg	8950	700358	7970	7640	8840	9000	100	700329
Total Antimony (Sb)	mg/kg	0.5	700358	0.5	0.5	0.7	0.2	0.1	700329
Total Arsenic (As)	mg/kg	4.1	700358	5.2	4.1	5.7	2.1	0.2	700329
Total Barium (Ba)	mg/kg	86.7	700358	49.3	52.8	57.2	48.8	0.1	700329
Total Beryllium (Be)	mg/kg	0.3	700358	0.2	0.2	0.2	0.2	0.1	700329
Total Bismuth (Bi)	mg/kg	<0.1	700358	<0.1	<0.1	<0.1	<0.1	0.1	700329
Total Cadmium (Cd)	mg/kg	0.63	700358	0.34	0.29	0.46	0.15	0.05	700329
Total Calcium (Ca)	mg/kg	5490	700358	9280	6160	12200	5700	100	700329
Total Chromium (Cr)	mg/kg	27.7	700358	25.4	25.9	29.2	22.9	1	700329
Total Cobalt (Co)	mg/kg	10.4	700358	7.7	7.3	9.1	7.8	0.3	700329
Total Copper (Cu)	mg/kg	38.3	700358	27.8	28.5	33.3	17.9	0.5	700329
Total Iron (Fe)	mg/kg	21700	700358	19300	18600	21800	18700	100	700329
Total Lead (Pb)	mg/kg	23.8	700358	11.6	11.3	11.1	16.2	0.1	700329
Total Magnesium (Mg)	mg/kg	6720	700358	6470	5870	7320	5450	100	700329
Total Manganese (Mn)	mg/kg	633	700358	370	424	435	341	0.2	700329
Total Mercury (Hg)	mg/kg	0.05	700358	<0.05	<0.05	<0.05	<0.05	0.05	700329
Total Molybdenum (Mo)	mg/kg	1.2	700358	0.9	1.1	1.2	0.8	0.1	700329
Total Nickel (Ni)	mg/kg	34.9	700358	29.4	29.4	32.4	24.2	0.8	700329
Total Phosphorus (P)	mg/kg	574	700358	641	529	670	590	10	700329
Total Potassium (K)	mg/kg	1160	700358	738	664	784	532	100	700329
Total Selenium (Se)	mg/kg	<0.5	700358	0.5	<0.5	<0.5	<0.5	0.5	700329
Total Silver (Ag)	mg/kg	0.13	700358	0.09	0.11	0.12	0.06	0.05	700329
Total Sodium (Na)	mg/kg	399	700358	524	511	323	669	100	700329
Total Strontium (Sr)	mg/kg	30.6	700358	37.4	26.7	63.2	19.4	0.1	700329
Total Thallium (Tl)	mg/kg	0.10	700358	0.07	0.06	0.08	<0.05	0.05	700329
Total Tin (Sn)	mg/kg	0.5	700358	2.3	0.6	0.4	0.4	0.1	700329
Total Titanium (Ti)	mg/kg	469	700358	432	428	436	522	1	700329
Total Vanadium (V)	mg/kg	38.4	700358	42.1	39.9	47.3	36.3	2	700329
Total Zinc (Zn)	mg/kg	62.2	700358	64.4	60.6	73.9	47.3	1	700329
Total Zirconium (Zr)	mg/kg	17.0	700358	15.0	14.3	16.0	11.9	0.5	700329

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728422	728423	728424	728425	728426		
Sampling Date		2005/02/17	2005/02/17	2005/02/18	2005/02/18	2005/02/18		
	Units	**SITE18 SA2**	**SITE18 SA3**	**SITE25 SA1**	**SITE25 SA2**	**SITE25 SA3**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	7470	8040	6600	7460	7030	100	700329
Total Antimony (Sb)	mg/kg	0.4	0.5	0.2	0.2	0.3	0.1	700329
Total Arsenic (As)	mg/kg	3.8	4.6	2.6	2.4	2.9	0.2	700329
Total Barium (Ba)	mg/kg	53.5	56.0	45.0	49.5	49.3	0.1	700329
Total Beryllium (Be)	mg/kg	0.2	0.2	0.1	0.2	0.1	0.1	700329
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	700329
Total Cadmium (Cd)	mg/kg	0.20	0.23	0.15	0.16	0.13	0.05	700329
Total Calcium (Ca)	mg/kg	4360	5930	11000	9380	9160	100	700329
Total Chromium (Cr)	mg/kg	21.0	20.9	21.1	18.9	22.7	1	700329
Total Cobalt (Co)	mg/kg	7.2	7.4	6.7	6.9	6.8	0.3	700329
Total Copper (Cu)	mg/kg	21.6	23.9	15.2	17.5	17.0	0.5	700329
Total Iron (Fe)	mg/kg	18700	19600	17400	17700	17200	100	700329
Total Lead (Pb)	mg/kg	10.2	12.5	35.9	21.4	27.8	0.1	700329
Total Magnesium (Mg)	mg/kg	5070	5650	6060	4980	5350	100	700329
Total Manganese (Mn)	mg/kg	362	363	295	324	310	0.2	700329
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700329
Total Molybdenum (Mo)	mg/kg	0.8	0.8	0.6	0.7	1.0	0.1	700329
Total Nickel (Ni)	mg/kg	24.0	23.2	19.4	22.9	27.4	0.8	700329
Total Phosphorus (P)	mg/kg	498	509	464	396	534	10	700329
Total Potassium (K)	mg/kg	752	594	403	340	404	100	700329
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700329
Total Silver (Ag)	mg/kg	0.06	0.09	<0.05	0.05	0.05	0.05	700329
Total Sodium (Na)	mg/kg	614	383	169	<100	191	100	700329
Total Strontium (Sr)	mg/kg	17.5	18.7	28.9	38.0	34.9	0.1	700329
Total Thallium (Tl)	mg/kg	<0.05	0.06	<0.05	<0.05	<0.05	0.05	700329
Total Tin (Sn)	mg/kg	0.3	0.3	0.3	0.2	0.3	0.1	700329
Total Titanium (Ti)	mg/kg	389	385	368	456	429	1	700329
Total Vanadium (V)	mg/kg	31.1	31.4	24.6	29.3	28.0	2	700329
Total Zinc (Zn)	mg/kg	51.6	52.5	45.1	43.6	39.8	1	700329
Total Zirconium (Zr)	mg/kg	13.0	10.4	12.3	12.7	13.5	0.5	700329

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728427	728428	728429	728430	728431		
Sampling Date		2005/02/18	2005/02/18	2005/02/18	2005/02/18	2005/02/18		
	Units	**SITE26 SA1**	**SITE26 DUP**	**SITE27 SA1**	**SITE27 SA2**	**SITE27 DUP**	**DL**	**QC Batch**
Metals								
Total Aluminum (Al)	mg/kg	13500	13900	7670	8230	7830	100	700329
Total Antimony (Sb)	mg/kg	0.7	0.8	0.1	0.3	0.3	0.1	700329
Total Arsenic (As)	mg/kg	22.2	26.0	3.5	5.5	10.9	0.2	700329
Total Barium (Ba)	mg/kg	45.6	49.0	17.3	21.6	22.8	0.1	700329
Total Beryllium (Be)	mg/kg	0.2	0.2	0.1	0.1	<0.1	0.1	700329
Total Bismuth (Bi)	mg/kg	0.1	0.1	0.2	0.2	0.2	0.1	700329
Total Cadmium (Cd)	mg/kg	0.24	0.26	0.06	0.16	0.21	0.05	700329
Total Calcium (Ca)	mg/kg	5600	5870	30500	40100	40900	100	700329
Total Chromium (Cr)	mg/kg	43.4	38.6	11.0	15.9	16.4	1	700329
Total Cobalt (Co)	mg/kg	17.2	19.0	7.1	8.6	9.1	0.3	700329
Total Copper (Cu)	mg/kg	64.1	78.6	15.5	20.5	23.3	0.5	700329
Total Iron (Fe)	mg/kg	31400	32800	21700	25100	27600	100	700329
Total Lead (Pb)	mg/kg	12.5	12.1	14.7	34.6	41.8	0.1	700329
Total Magnesium (Mg)	mg/kg	11400	11500	4840	4960	4940	100	700329
Total Manganese (Mn)	mg/kg	593	650	490	504	566	0.2	700329
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	700329
Total Molybdenum (Mo)	mg/kg	1.1	1.1	0.6	0.5	0.8	0.1	700329
Total Nickel (Ni)	mg/kg	32.5	30.7	19.8	23.6	24.5	0.8	700329
Total Phosphorus (P)	mg/kg	980	852	337	407	785	10	700329
Total Potassium (K)	mg/kg	1270	1210	534	687	538	100	700329
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	700329
Total Silver (Ag)	mg/kg	0.16	0.17	<0.05	0.07	0.07	0.05	700329
Total Sodium (Na)	mg/kg	876	958	<100	118	105	100	700329
Total Strontium (Sr)	mg/kg	34.4	38.1	155	238	212	0.1	700329
Total Thallium (Tl)	mg/kg	0.08	0.08	<0.05	<0.05	<0.05	0.05	700329
Total Tin (Sn)	mg/kg	0.2	0.2	0.2	0.3	0.2	0.1	700329
Total Titanium (Ti)	mg/kg	730	814	70.3	66.1	39.3	1	700329
Total Vanadium (V)	mg/kg	63.3	68.1	13.4	9	8	2	700329
Total Zinc (Zn)	mg/kg	65.6	70.9	49.9	53.8	59.6	1	700329
Total Zirconium (Zr)	mg/kg	17.0	17.6	3.2	5.5	4.8	0.5	700329

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		728432		
Sampling Date		2005/02/18		
	Units	**SITE27 SA3**	**DL**	**QC Batch**
Metals				
Total Aluminum (Al)	mg/kg	23900	100	700329
Total Antimony (Sb)	mg/kg	0.5	0.1	700329
Total Arsenic (As)	mg/kg	9.3	0.2	700329
Total Barium (Ba)	mg/kg	123	0.1	700329
Total Beryllium (Be)	mg/kg	0.5	0.1	700329
Total Bismuth (Bi)	mg/kg	0.2	0.1	700329
Total Cadmium (Cd)	mg/kg	0.20	0.05	700329
Total Calcium (Ca)	mg/kg	4360	100	700329
Total Chromium (Cr)	mg/kg	46.3	1	700329
Total Cobalt (Co)	mg/kg	17.8	0.3	700329
Total Copper (Cu)	mg/kg	35.1	0.5	700329
Total Iron (Fe)	mg/kg	43600	100	700329
Total Lead (Pb)	mg/kg	15.7	0.1	700329
Total Magnesium (Mg)	mg/kg	9150	100	700329
Total Manganese (Mn)	mg/kg	698	0.2	700329
Total Mercury (Hg)	mg/kg	<0.05	0.05	700329
Total Molybdenum (Mo)	mg/kg	0.7	0.1	700329
Total Nickel (Ni)	mg/kg	45.6	0.8	700329
Total Phosphorus (P)	mg/kg	455	10	700329
Total Potassium (K)	mg/kg	1960	100	700329
Total Selenium (Se)	mg/kg	<0.5	0.5	700329
Total Silver (Ag)	mg/kg	<0.05	0.05	700329
Total Sodium (Na)	mg/kg	504	100	700329
Total Strontium (Sr)	mg/kg	28.6	0.1	700329
Total Thallium (Tl)	mg/kg	0.14	0.05	700329
Total Tin (Sn)	mg/kg	0.4	0.1	700329
Total Titanium (Ti)	mg/kg	567	1	700329
Total Vanadium (V)	mg/kg	54.3	2	700329
Total Zinc (Zn)	mg/kg	107	1	700329
Total Zirconium (Zr)	mg/kg	18.9	0.5	700329

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		728385	728386	728387		
Sampling Date		2005/02/18	2005/02/16	2005/02/17		
	Units	**SITE26**	**SITE9**	**SITE18**	**DL**	**QC Batch**
Anions						
Dissolved Chloride (Cl)	mg/L	337	1.1	151	0.5	700669
Please check for attached comments						

Maxxam Analytics Inc

Maxxam Job #: A504357
Report Date: 2005/03/02

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.6
Site Reference:
Sampler Initials:

General Comments

Results relate only to the items tested.

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.6
P.O. #:
Site Reference:

Quality Assurance Report

Maxxam Job Number: VA504357

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
697675 HD5	SPIKE	Soluble (2:1) pH	2005/02/22		101	%	96 - 104
	RPD	Soluble (2:1) pH	2005/02/22	0		%	20
697677 HD5	SPIKE	Soluble (2:1) pH	2005/02/22		100	%	96 - 104
	RPD	Soluble (2:1) pH	2005/02/22	0.3		%	20
697679 666	SPIKE	Soluble (2:1) pH	2005/02/22		100	%	96 - 104
	RPD	Soluble (2:1) pH	2005/02/22	0.3		%	20
700329 DH4	MATRIX SPIKE	Total Arsenic (As)	2005/02/25		108	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		102	%	75 - 125
		Total Chromium (Cr)	2005/02/25		106	%	75 - 125
		Total Cobalt (Co)	2005/02/25		103	%	75 - 125
		Total Copper (Cu)	2005/02/25		102	%	75 - 125
		Total Lead (Pb)	2005/02/25		114	%	75 - 125
		Total Mercury (Hg)	2005/02/25		97	%	75 - 125
		Total Selenium (Se)	2005/02/25		108	%	75 - 125
		Total Thallium (Tl)	2005/02/25		99	%	75 - 125
		Total Zinc (Zn)	2005/02/25		96	%	75 - 125
	SPIKE	Total Arsenic (As)	2005/02/25		108	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		100	%	75 - 125
		Total Chromium (Cr)	2005/02/25		101	%	75 - 125
		Total Cobalt (Co)	2005/02/25		103	%	75 - 125
		Total Copper (Cu)	2005/02/25		109	%	75 - 125
		Total Lead (Pb)	2005/02/25		105	%	75 - 125
		Total Mercury (Hg)	2005/02/25		102	%	75 - 125
		Total Selenium (Se)	2005/02/25		108	%	75 - 125
		Total Thallium (Tl)	2005/02/25		100	%	75 - 125
		Total Zinc (Zn)	2005/02/25		111	%	75 - 125
	BLANK	Total Aluminum (Al)	2005/02/25	<100		mg/kg	
		Total Antimony (Sb)	2005/02/25	<0.1		mg/kg	
		Total Arsenic (As)	2005/02/25	<0.2		mg/kg	
		Total Barium (Ba)	2005/02/25	<0.1		mg/kg	
		Total Beryllium (Be)	2005/02/25	<0.1		mg/kg	
		Total Bismuth (Bi)	2005/02/25	<0.1		mg/kg	
		Total Cadmium (Cd)	2005/02/25	<0.05		mg/kg	
		Total Calcium (Ca)	2005/02/25	<100		mg/kg	
		Total Chromium (Cr)	2005/02/25	<1		mg/kg	
		Total Cobalt (Co)	2005/02/25	<0.3		mg/kg	
		Total Copper (Cu)	2005/02/25	<0.5		mg/kg	
		Total Iron (Fe)	2005/02/25	<100		mg/kg	
		Total Lead (Pb)	2005/02/25	<0.1		mg/kg	
		Total Magnesium (Mg)	2005/02/25	<100		mg/kg	
		Total Manganese (Mn)	2005/02/25	<0.2		mg/kg	
		Total Mercury (Hg)	2005/02/25	<0.05		mg/kg	
		Total Molybdenum (Mo)	2005/02/25	<0.1		mg/kg	
		Total Nickel (Ni)	2005/02/25	<0.8		mg/kg	
		Total Phosphorus (P)	2005/02/25	<10		mg/kg	
		Total Potassium (K)	2005/02/25	<100		mg/kg	
		Total Selenium (Se)	2005/02/25	<0.5		mg/kg	
		Total Silver (Ag)	2005/02/25	<0.05		mg/kg	
		Total Sodium (Na)	2005/02/25	<100		mg/kg	
		Total Strontium (Sr)	2005/02/25	<0.1		mg/kg	
		Total Thallium (Tl)	2005/02/25	<0.05		mg/kg	
		Total Tin (Sn)	2005/02/25	<0.1		mg/kg	
		Total Titanium (Ti)	2005/02/25	<1		mg/kg	
		Total Vanadium (V)	2005/02/25	<2		mg/kg	
		Total Zinc (Zn)	2005/02/25	<1		mg/kg	
		Total Zirconium (Zr)	2005/02/25	<0.5		mg/kg	

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.6
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA504357

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd		Value	Recovery	Units	QC Limits
700329 DH4	RPD	Total Aluminum (Al)	2005/02/25		16.3		%	35
		Total Antimony (Sb)	2005/02/25		5.9		%	35
		Total Arsenic (As)	2005/02/25		4.3		%	35
		Total Barium (Ba)	2005/02/25		3.5		%	35
		Total Beryllium (Be)	2005/02/25		NC		%	35
		Total Bismuth (Bi)	2005/02/25		NC		%	35
		Total Cadmium (Cd)	2005/02/25	!!	43.2		%	35
		Total Calcium (Ca)	2005/02/25		12.1		%	35
		Total Chromium (Cr)	2005/02/25		0.8		%	35
		Total Cobalt (Co)	2005/02/25		2.1		%	35
		Total Copper (Cu)	2005/02/25		9.5		%	35
		Total Iron (Fe)	2005/02/25		8.9		%	35
		Total Lead (Pb)	2005/02/25		5.0		%	35
		Total Magnesium (Mg)	2005/02/25		14.9		%	35
		Total Manganese (Mn)	2005/02/25		5.0		%	35
		Total Mercury (Hg)	2005/02/25		NC		%	35
		Total Molybdenum (Mo)	2005/02/25		6.8		%	35
		Total Nickel (Ni)	2005/02/25		19.8		%	35
		Total Phosphorus (P)	2005/02/25		18.9		%	35
		Total Potassium (K)	2005/02/25		15.2		%	35
		Total Selenium (Se)	2005/02/25		NC		%	35
		Total Silver (Ag)	2005/02/25		NC		%	35
		Total Sodium (Na)	2005/02/25		NC		%	35
		Total Strontium (Sr)	2005/02/25		1.8		%	35
		Total Thallium (Tl)	2005/02/25		NC		%	35
		Total Tin (Sn)	2005/02/25	!!	85.9		%	35
		Total Titanium (Ti)	2005/02/25		7.4		%	35
		Total Vanadium (V)	2005/02/25		6.4		%	35
		Total Zinc (Zn)	2005/02/25		15.4		%	35
		Total Zirconium (Zr)	2005/02/25		4.6		%	35
700335 DH4	MATRIX SPIKE	Total Arsenic (As)	2005/02/25			103	%	75 - 125
		Total Cadmium (Cd)	2005/02/25			101	%	75 - 125
		Total Chromium (Cr)	2005/02/25			89	%	75 - 125
		Total Cobalt (Co)	2005/02/25			96	%	75 - 125
		Total Copper (Cu)	2005/02/25			94	%	75 - 125
		Total Lead (Pb)	2005/02/25			105	%	75 - 125
		Total Mercury (Hg)	2005/02/25			95	%	75 - 125
		Total Selenium (Se)	2005/02/25			102	%	75 - 125
		Total Thallium (Tl)	2005/02/25			101	%	75 - 125
		Total Zinc (Zn)	2005/02/25			94	%	75 - 125
	SPIKE	Total Arsenic (As)	2005/02/25			105	%	75 - 125
		Total Cadmium (Cd)	2005/02/25			98	%	75 - 125
		Total Chromium (Cr)	2005/02/25			95	%	75 - 125
		Total Cobalt (Co)	2005/02/25			100	%	75 - 125
		Total Copper (Cu)	2005/02/25			104	%	75 - 125
		Total Lead (Pb)	2005/02/25			106	%	75 - 125
		Total Mercury (Hg)	2005/02/25			103	%	75 - 125
		Total Selenium (Se)	2005/02/25			106	%	75 - 125
		Total Thallium (Tl)	2005/02/25			101	%	75 - 125
		Total Zinc (Zn)	2005/02/25			104	%	75 - 125
	BLANK	Total Aluminum (Al)	2005/02/25		<100		mg/kg	
		Total Antimony (Sb)	2005/02/25		<0.1		mg/kg	
		Total Arsenic (As)	2005/02/25		<0.2		mg/kg	
		Total Barium (Ba)	2005/02/25		<0.1		mg/kg	
		Total Beryllium (Be)	2005/02/25		<0.1		mg/kg	
		Total Bismuth (Bi)	2005/02/25		<0.1		mg/kg	

Quality Assurance Report (Continued)

Maxxam Job Number: VA504357

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
700335 DH4	BLANK	Total Cadmium (Cd)	2005/02/25	<0.05		mg/kg	
		Total Calcium (Ca)	2005/02/25	<100		mg/kg	
		Total Chromium (Cr)	2005/02/25	<1		mg/kg	
		Total Cobalt (Co)	2005/02/25	<0.3		mg/kg	
		Total Copper (Cu)	2005/02/25	<0.5		mg/kg	
		Total Iron (Fe)	2005/02/25	<100		mg/kg	
		Total Lead (Pb)	2005/02/25	<0.1		mg/kg	
		Total Magnesium (Mg)	2005/02/25	<100		mg/kg	
		Total Manganese (Mn)	2005/02/25	<0.2		mg/kg	
		Total Mercury (Hg)	2005/02/25	<0.05		mg/kg	
		Total Molybdenum (Mo)	2005/02/25	<0.1		mg/kg	
		Total Nickel (Ni)	2005/02/25	<0.8		mg/kg	
		Total Phosphorus (P)	2005/02/25	<10		mg/kg	
		Total Potassium (K)	2005/02/25	<100		mg/kg	
		Total Selenium (Se)	2005/02/25	<0.5		mg/kg	
		Total Silver (Ag)	2005/02/25	<0.05		mg/kg	
		Total Sodium (Na)	2005/02/25	<100		mg/kg	
		Total Strontium (Sr)	2005/02/25	<0.1		mg/kg	
		Total Thallium (Tl)	2005/02/25	<0.05		mg/kg	
		Total Tin (Sn)	2005/02/25	<0.1		mg/kg	
		Total Titanium (Ti)	2005/02/25	<1		mg/kg	
		Total Vanadium (V)	2005/02/25	<2		mg/kg	
		Total Zinc (Zn)	2005/02/25	<1		mg/kg	
		Total Zirconium (Zr)	2005/02/25	0.9, DL=0.5		mg/kg	
700358 DH4	MATRIX SPIKE	Total Arsenic (As)	2005/02/25		109	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		103	%	75 - 125
		Total Chromium (Cr)	2005/02/25		97	%	75 - 125
		Total Cobalt (Co)	2005/02/25		101	%	75 - 125
		Total Copper (Cu)	2005/02/25		87	%	75 - 125
		Total Lead (Pb)	2005/02/25		115	%	75 - 125
		Total Mercury (Hg)	2005/02/25		105	%	75 - 125
		Total Selenium (Se)	2005/02/25		106	%	75 - 125
		Total Thallium (Tl)	2005/02/25		106	%	75 - 125
		Total Zinc (Zn)	2005/02/25		95	%	75 - 125
	SPIKE	Total Arsenic (As)	2005/02/25		109	%	75 - 125
		Total Cadmium (Cd)	2005/02/25		101	%	75 - 125
		Total Chromium (Cr)	2005/02/25		99	%	75 - 125
		Total Cobalt (Co)	2005/02/25		103	%	75 - 125
		Total Copper (Cu)	2005/02/25		106	%	75 - 125
		Total Lead (Pb)	2005/02/25		111	%	75 - 125
		Total Mercury (Hg)	2005/02/25		108	%	75 - 125
		Total Selenium (Se)	2005/02/25		110	%	75 - 125
		Total Thallium (Tl)	2005/02/25		107	%	75 - 125
		Total Zinc (Zn)	2005/02/25		107	%	75 - 125
	BLANK	Total Aluminum (Al)	2005/02/25	<100		mg/kg	
		Total Antimony (Sb)	2005/02/25	<0.1		mg/kg	
		Total Arsenic (As)	2005/02/25	<0.2		mg/kg	
		Total Barium (Ba)	2005/02/25	<0.1		mg/kg	
		Total Beryllium (Be)	2005/02/25	<0.1		mg/kg	
		Total Bismuth (Bi)	2005/02/25	<0.1		mg/kg	
		Total Cadmium (Cd)	2005/02/25	<0.05		mg/kg	
		Total Calcium (Ca)	2005/02/25	<100		mg/kg	
		Total Chromium (Cr)	2005/02/25	<1		mg/kg	
		Total Cobalt (Co)	2005/02/25	<0.3		mg/kg	
		Total Copper (Cu)	2005/02/25	<0.5		mg/kg	
		Total Iron (Fe)	2005/02/25	<100		mg/kg	

Quality Assurance Report (Continued)

Maxxam Job Number: VA504357

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
700358 DH4	BLANK	Total Lead (Pb)	2005/02/25	<0.1		mg/kg	
		Total Magnesium (Mg)	2005/02/25	<100		mg/kg	
		Total Manganese (Mn)	2005/02/25	<0.2		mg/kg	
		Total Mercury (Hg)	2005/02/25	<0.05		mg/kg	
		Total Molybdenum (Mo)	2005/02/25	<0.1		mg/kg	
		Total Nickel (Ni)	2005/02/25	<0.8		mg/kg	
		Total Phosphorus (P)	2005/02/25	<10		mg/kg	
		Total Potassium (K)	2005/02/25	<100		mg/kg	
		Total Selenium (Se)	2005/02/25	<0.5		mg/kg	
		Total Silver (Ag)	2005/02/25	<0.05		mg/kg	
		Total Sodium (Na)	2005/02/25	<100		mg/kg	
		Total Strontium (Sr)	2005/02/25	<0.1		mg/kg	
		Total Thallium (Tl)	2005/02/25	<0.05		mg/kg	
		Total Tin (Sn)	2005/02/25	<0.1		mg/kg	
		Total Titanium (Ti)	2005/02/25	<1		mg/kg	
		Total Vanadium (V)	2005/02/25	<2		mg/kg	
		Total Zinc (Zn)	2005/02/25	<1		mg/kg	
		Total Zirconium (Zr)	2005/02/25	<0.5		mg/kg	
	RPD	Total Aluminum (Al)	2005/02/25	4.1		%	35
		Total Antimony (Sb)	2005/02/25	NC		%	35
		Total Arsenic (As)	2005/02/25	13.8		%	35
		Total Barium (Ba)	2005/02/25	11.7		%	35
		Total Beryllium (Be)	2005/02/25	NC		%	35
		Total Bismuth (Bi)	2005/02/25	NC		%	35
		Total Cadmium (Cd)	2005/02/25	NC		%	35
		Total Calcium (Ca)	2005/02/25	3.0		%	35
		Total Chromium (Cr)	2005/02/25	0.5		%	35
		Total Cobalt (Co)	2005/02/25	4.8		%	35
		Total Copper (Cu)	2005/02/25	2.9		%	35
		Total Iron (Fe)	2005/02/25	7.9		%	35
		Total Lead (Pb)	2005/02/25	0.1		%	35
		Total Magnesium (Mg)	2005/02/25	1.5		%	35
		Total Manganese (Mn)	2005/02/25	7.9		%	35
		Total Mercury (Hg)	2005/02/25	NC		%	35
		Total Molybdenum (Mo)	2005/02/25	11.2		%	35
		Total Nickel (Ni)	2005/02/25	1.6		%	35
		Total Phosphorus (P)	2005/02/25	3.3		%	35
		Total Potassium (K)	2005/02/25	2.2		%	35
		Total Selenium (Se)	2005/02/25	NC		%	35
		Total Silver (Ag)	2005/02/25	NC		%	35
		Total Sodium (Na)	2005/02/25	19.0		%	35
		Total Strontium (Sr)	2005/02/25	12.0		%	35
		Total Thallium (Tl)	2005/02/25	NC		%	35
		Total Tin (Sn)	2005/02/25	NC		%	35
		Total Titanium (Ti)	2005/02/25	7.2		%	35
		Total Vanadium (V)	2005/02/25	4.0		%	35
		Total Zinc (Zn)	2005/02/25	3.7		%	35
		Total Zirconium (Zr)	2005/02/25	11.7		%	35
700669 BH2	MATRIX SPIKE	Dissolved Chloride (Cl)	2005/02/24		104	%	80 - 120
	SPIKE	Dissolved Chloride (Cl)	2005/02/24		101	%	80 - 120
	BLANK	Dissolved Chloride (Cl)	2005/02/24	<0.5		mg/L	
	RPD	Dissolved Chloride (Cl)	2005/02/24	NC		%	25
703593 BH2	MATRIX SPIKE	Chloride (Cl)	2005/02/25		101	%	80 - 120
	SPIKE	Chloride (Cl)	2005/02/25		102	%	80 - 120
	BLANK	Chloride (Cl)	2005/02/25	<50		ug/g	
	RPD	Chloride (Cl)	2005/02/25	NC		%	35

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.6
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA504357

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
703688 BH2	MATRIX SPIKE	Chloride (Cl)	2005/02/25		99	%	80 - 120
	SPIKE	Chloride (Cl)	2005/02/25		102	%	80 - 120
	BLANK	Chloride (Cl)	2005/02/25	<50		ug/g	
	RPD	Chloride (Cl)	2005/02/25	NC		%	35
703689 BH2	MATRIX SPIKE	Chloride (Cl)	2005/02/25		102	%	80 - 120
	SPIKE	Chloride (Cl)	2005/02/25		104	%	80 - 120
	BLANK	Chloride (Cl)	2005/02/25	<50		ug/g	
	RPD	Chloride (Cl)	2005/02/25	NC		%	35

NC = Non-calculable
RPD = Relative Percent Difference
!! = Please note that the recovery of some compounds are outside control limits however the overall quality control for this analysis meets our acceptability criteria.

JACQUES WHITFORD ENVIRONMENT LTD.
JWEL-BBY
4370 DOMINION ST. 5TH FLOOR
BURNABY, BC
Canada V5G4L7

Attention: Liliana Jerade

Report Date: 2005/04/26

Your Project #: BCV61843.7
Your C.O.C. #: 15262, 15445, 15263, 15264, 15261

ANALYTICAL REPORT

MAXXAM JOB #: A512721
Received: 2005/04/21, 23:30

Sample Matrix: Soil
Samples Received: 45

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (soil)	45	2005/04/25	2005/04/25	ING303 Rev.3.4	Carter, SSMA 18.2.4
Elements by ICPMS (total)	16	2005/04/22	2005/04/25	ING112 Rev 1.5	Based on EPA 200.8
Elements by ICPMS (total)	29	2005/04/25	2005/04/25	ING112 Rev 1.5	Based on EPA 200.8
pH (2:1 DI Water Extract)(1)	45	2005/04/22	2005/04/25	ING416 Rev.1.2	Carter, SSMA 16.2

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (IC)(1)	7	N/A	2005/04/25	ING303 Rev.3.4	SM - 4110B

(1) SCC/CAEAL

MAXXAM Analytics Inc.

LEE CARD

LC4/lc4
encl.

Total cover pages: 1

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		773539	773549	773550	773551	773552	773553		
Sampling Date		2005/04/17	2005/04/17	2005/04/17	2005/04/17	2005/04/17	2005/04/17		
COC Number		15262	15262	15262	15262	15262	15262		
	Units	**SITE 1-SA1**	**SITE 1-SA2**	**SITE 1-SA3**	**SITE 2-SA1**	**SITE 2-SA2**	**SITE 2-SA3**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.13	8.17	7.00	7.47	7.53	7.06	0.01	753960
ANIONS									
Chloride (Cl)	ug/g	<50	<50	<50	<50	<50	<50	50	755450

Please check for attached comments

Maxxam ID		773554	773555	773556	773557	773558	773559		
Sampling Date		2005/04/17	2005/04/17	2005/04/17	2005/04/17	2005/04/17	2005/04/17		
COC Number		15262	15262	15262	15262	15262	15262		
	Units	**SITE 3-SA1**	**SITE 3-SA2**	**SITE 3-SA3**	**SITE 4-SA1**	**SITE 4-SA2**	**SITE 4-SA3**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	7.45	8.78	7.69	8.68	9.30	8.58	0.01	753960
ANIONS									
Chloride (Cl)	ug/g	<50	<50	<50	<50	<50	<50	50	755450

Please check for attached comments

Maxxam ID		773560	773561	773562	773563		773564		
Sampling Date		2005/04/17	2005/04/17	2005/04/17	2005/04/18		2005/04/18		
COC Number		15263	15263	15263	15263		15263		
	Units	**SITE 5-SA1**	**SITE 5-SA2**	**SITE 5-SA3**	**SITE 6-SA1**	**QC Batch**	**SITE 6-SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.05	7.45	7.11	7.04	753960	7.24	0.01	754024
ANIONS									
Chloride (Cl)	ug/g	<50	<50	<50	<50	755450	<50	50	755450

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		773565	773566	773567	773568	773569	773570		
Sampling Date		2005/04/18	2005/04/18	2005/04/18	2005/04/18	2005/04/18	2005/04/18		
COC Number		15263	15263	15263	15263	15263	15263		
	Units	**SITE 6-SA3**	**SITE 7-SA1**	**SITE 7-SA2**	**SITE 7-SA3**	**SITE 8-SA1**	**SITE 8-SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	7.01	9.43	7.11	7.58	9.12	8.44	0.01	754024
ANIONS									
Chloride (Cl)	ug/g	<50	52	125	<50	51	<50	50	755450
Please check for attached comments									

Maxxam ID		773571	773572	773573	773574	773575	773576		
Sampling Date		2005/04/18	2005/04/19	2005/04/19	2005/04/19	2005/04/19	2005/04/19		
COC Number		15263	15264	15264	15264	15264	15264		
	Units	**SITE 8-SA3**	**SITE 19-SA1**	**SITE 19-SA2**	**SITE 19-SA3**	**SITE 20-SA1**	**SITE 20-SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.50	9.65	9.62	9.57	8.62	8.58	0.01	754024
ANIONS									
Chloride (Cl)	ug/g	<50	119	103	<50	358	265	50	755450
Please check for attached comments									

Maxxam ID		773577	773578	773579	773580	773581	773582		
Sampling Date		2005/04/19	2005/04/19	2005/04/19	2005/04/19	2005/04/19	2005/04/19		
COC Number		15264	15264	15264	15264	15264	15264		
	Units	**SITE 20-SA3**	**SITE 21-SA1**	**SITE 21-SA2**	**SITE 21-SA3**	**SITE 22-SA1**	**SITE 22-SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	7.71	7.54	8.37	7.51	9.39	9.08	0.01	754024
ANIONS									
Chloride (Cl)	ug/g	<50	198	295	1560	<50	<50	50	755450
Please check for attached comments									

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
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Sampler Initials: SM

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		773583		773584	773585	773586	773587		
Sampling Date		2005/04/19		2005/04/20	2005/04/20	2005/04/20	2005/04/20		
COC Number		15264		15261	15261	15261	15261		
	Units	**SITE 22-SA3**	**QC Batch**	**SITE 23-SA1**	**SITE 23-SA2**	**SITE 23-SA3**	**SITE 24-SA1**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.10	754024	7.95	7.75	8.10	9.51	0.01	754175
ANIONS									
Chloride (Cl)	ug/g	<50	755450	<50	<50	<50	281	50	755450
Please check for attached comments									

Maxxam ID		773588	773589	773602	773603	773604		
Sampling Date		2005/04/20	2005/04/20	2005/04/17	2005/04/19	2005/04/17		
COC Number		15261	15261	15445	15445	15445		
	Units	**SITE 24-SA2**	**SITE 24-SA3**	**DUP 6**	**DUP 20**	**DUP 3**	**DL**	**QC Batch**
Misc. Inorganics								
Soluble (2:1) pH	pH Units	9.63	9.29	7.25	8.67	7.76	0.01	754175
ANIONS								
Chloride (Cl)	ug/g	53	184	<50	192	<50	50	755450
Please check for attached comments								

Maxxam Analytics Inc

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773539	773549	773550	773551	773552		
Sampling Date		2005/04/17	2005/04/17	2005/04/17	2005/04/17	2005/04/17		
COC Number		15262	15262	15262	15262	15262		
	Units	**SITE 1-SA1**	**SITE 1-SA2**	**SITE 1-SA3**	**SITE 2-SA1**	**SITE 2-SA2**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	8160	9030	8760	13800	14800	100	755349
Total Antimony (Sb)	mg/kg	0.2	0.2	0.3	0.5	0.5	0.1	755349
Total Arsenic (As)	mg/kg	3.3	3.1	4.1	5.4	5.9	0.2	755349
Total Barium (Ba)	mg/kg	45.6	40.8	38.9	46.4	54.2	0.1	755349
Total Beryllium (Be)	mg/kg	0.1	0.2	0.1	0.2	0.3	0.1	755349
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1	0.1	755349
Total Cadmium (Cd)	mg/kg	0.19	0.15	0.14	0.20	0.19	0.05	755349
Total Calcium (Ca)	mg/kg	2390	2350	2440	4540	4730	100	755349
Total Chromium (Cr)	mg/kg	21.3	30.1	29.0	29.5	25.9	1	755349
Total Cobalt (Co)	mg/kg	6.3	7.2	7.7	9.9	9.9	0.3	755349
Total Copper (Cu)	mg/kg	24.4	27.3	29.4	41.7	35.3	0.5	755349
Total Iron (Fe)	mg/kg	18500	19800	20500	27800	30100	100	755349
Total Lead (Pb)	mg/kg	8.8	11.0	13.5	42.3	22.3	0.1	755349
Total Magnesium (Mg)	mg/kg	5610	6640	6890	7760	8210	100	755349
Total Manganese (Mn)	mg/kg	280	311	314	470	505	0.2	755349
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755349
Total Molybdenum (Mo)	mg/kg	0.4	0.5	0.5	0.7	0.4	0.1	755349
Total Nickel (Ni)	mg/kg	20.3	24.9	27.1	21.8	21.1	0.8	755349
Total Phosphorus (P)	mg/kg	376	434	435	486	542	10	755349
Total Potassium (K)	mg/kg	555	674	630	758	784	100	755349
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	755349
Total Silver (Ag)	mg/kg	0.05	0.06	0.06	0.09	0.10	0.05	755349
Total Sodium (Na)	mg/kg	302	396	414	785	943	100	755349
Total Strontium (Sr)	mg/kg	12.0	11.7	12.2	26.4	32.1	0.1	755349
Total Thallium (Tl)	mg/kg	0.08	0.08	0.06	0.06	0.06	0.05	755349
Total Tin (Sn)	mg/kg	0.3	0.3	0.3	0.4	0.3	0.1	755349
Total Titanium (Ti)	mg/kg	485	532	482	778	835	1	755349
Total Vanadium (V)	mg/kg	32.0	35.6	35.8	50.7	54.9	2	755349
Total Zinc (Zn)	mg/kg	52.4	60.1	63.7	89.6	79.5	1	755349
Total Zirconium (Zr)	mg/kg	1.5	1.7	1.9	3.9	4.3	0.5	755349

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
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Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773553	773554	773555	773556	773557		
Sampling Date		2005/04/17	2005/04/17	2005/04/17	2005/04/17	2005/04/17		
COC Number		15262	15262	15262	15262	15262		
	Units	**SITE 2-SA3**	**SITE 3-SA1**	**SITE 3-SA2**	**SITE 3-SA3**	**SITE 4-SA1**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	14400	4770	4880	4580	7620	100	755349
Total Antimony (Sb)	mg/kg	0.5	0.2	0.2	0.2	0.4	0.1	755349
Total Arsenic (As)	mg/kg	6.0	1.5	1.9	1.3	11.5	0.2	755349
Total Barium (Ba)	mg/kg	46.8	51.4	49.6	50.9	75.3	0.1	755349
Total Beryllium (Be)	mg/kg	0.2	0.2	0.2	0.2	0.2	0.1	755349
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	0.1	755349
Total Cadmium (Cd)	mg/kg	0.21	0.10	0.10	0.10	0.34	0.05	755349
Total Calcium (Ca)	mg/kg	4040	4380	4400	4800	5080	100	755349
Total Chromium (Cr)	mg/kg	29.7	21.3	16.4	17.0	37.5	1	755349
Total Cobalt (Co)	mg/kg	9.4	4.7	4.7	4.8	8.5	0.3	755349
Total Copper (Cu)	mg/kg	46.5	15.2	15.7	14.4	53.9	0.5	755349
Total Iron (Fe)	mg/kg	30800	15800	15700	14600	18800	100	755349
Total Lead (Pb)	mg/kg	34.8	68.3	102	59.9	39.3	0.1	755349
Total Magnesium (Mg)	mg/kg	7900	3480	3450	3360	5740	100	755349
Total Manganese (Mn)	mg/kg	524	266	264	254	363	0.2	755349
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755349
Total Molybdenum (Mo)	mg/kg	0.8	0.4	0.5	0.8	0.6	0.1	755349
Total Nickel (Ni)	mg/kg	21.0	8.3	7.3	7.5	31.6	0.8	755349
Total Phosphorus (P)	mg/kg	604	614	700	759	681	10	755349
Total Potassium (K)	mg/kg	765	969	1000	975	918	100	755349
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	0.5	<0.5	0.5	755349
Total Silver (Ag)	mg/kg	0.08	0.08	0.07	0.10	0.18	0.05	755349
Total Sodium (Na)	mg/kg	609	237	337	221	550	100	755349
Total Strontium (Sr)	mg/kg	21.7	70.8	51.5	68.6	26.4	0.1	755349
Total Thallium (Tl)	mg/kg	0.06	<0.05	0.05	0.11	0.07	0.05	755349
Total Tin (Sn)	mg/kg	0.4	0.3	0.3	0.4	0.3	0.1	755349
Total Titanium (Ti)	mg/kg	726	453	429	410	371	1	755349
Total Vanadium (V)	mg/kg	52.3	31.7	31.3	29.0	33.6	2	755349
Total Zinc (Zn)	mg/kg	86.2	50.9	52.8	47.9	60.5	1	755349
Total Zirconium (Zr)	mg/kg	4.9	4.6	4.1	3.7	1.2	0.5	755349

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773558	773559	773560	773561	773562		
Sampling Date		2005/04/17	2005/04/17	2005/04/17	2005/04/17	2005/04/17		
COC Number		15262	15262	15263	15263	15263		
	Units	**SITE 4-SA2**	**SITE 4-SA3**	**SITE 5-SA1**	**SITE 5-SA2**	**SITE 5-SA3**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	6110	6170	10600	9910	8170	100	755349
Total Antimony (Sb)	mg/kg	0.5	0.2	0.7	0.4	0.4	0.1	755349
Total Arsenic (As)	mg/kg	6.6	4.8	5.0	4.5	3.1	0.2	755349
Total Barium (Ba)	mg/kg	66.6	50.5	122	133	91.1	0.1	755349
Total Beryllium (Be)	mg/kg	0.2	0.3	0.4	0.3	0.3	0.1	755349
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	0.5	0.4	0.2	0.1	755349
Total Cadmium (Cd)	mg/kg	0.37	0.20	0.36	0.34	0.37	0.05	755349
Total Calcium (Ca)	mg/kg	3470	3060	4560	4420	3920	100	755349
Total Chromium (Cr)	mg/kg	48.7	27.3	26.8	25.7	23.2	1	755349
Total Cobalt (Co)	mg/kg	7.9	7.0	9.8	8.9	6.9	0.3	755349
Total Copper (Cu)	mg/kg	36.0	28.7	27.6	26.1	21.0	0.5	755349
Total Iron (Fe)	mg/kg	19600	19400	25300	24300	20400	100	755349
Total Lead (Pb)	mg/kg	90.0	31.3	15.4	18.5	36.1	0.1	755349
Total Magnesium (Mg)	mg/kg	5420	5220	5310	5580	4910	100	755349
Total Manganese (Mn)	mg/kg	297	275	314	299	292	0.2	755349
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755349
Total Molybdenum (Mo)	mg/kg	0.6	0.4	1.0	0.7	0.6	0.1	755349
Total Nickel (Ni)	mg/kg	28.6	21.0	21.0	18.1	16.8	0.8	755349
Total Phosphorus (P)	mg/kg	608	562	1150	1100	1100	10	755349
Total Potassium (K)	mg/kg	912	1040	2580	2800	1910	100	755349
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	755349
Total Silver (Ag)	mg/kg	0.13	0.11	0.11	0.17	0.12	0.05	755349
Total Sodium (Na)	mg/kg	329	283	528	554	370	100	755349
Total Strontium (Sr)	mg/kg	24.1	19.9	45.5	44.5	37.6	0.1	755349
Total Thallium (Tl)	mg/kg	0.05	0.07	0.15	0.18	0.14	0.05	755349
Total Tin (Sn)	mg/kg	0.4	0.4	0.4	0.4	0.4	0.1	755349
Total Titanium (Ti)	mg/kg	359	381	714	730	616	1	755349
Total Vanadium (V)	mg/kg	34.6	35.6	50.9	51.9	40.1	2	755349
Total Zinc (Zn)	mg/kg	75.8	57.8	62.1	67.6	81.9	1	755349
Total Zirconium (Zr)	mg/kg	2.2	2.0	2.2	2.0	2.0	0.5	755349

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773563		773564	773565	773566	773567		
Sampling Date		2005/04/18		2005/04/18	2005/04/18	2005/04/18	2005/04/18		
COC Number		15263		15263	15263	15263	15263		
	Units	**SITE 6-SA1**	**QC Batch**	**SITE 6-SA2**	**SITE 6-SA3**	**SITE 7-SA1**	**SITE 7-SA2**	**DL**	**QC Batch**
Elements									
Total Aluminum (Al)	mg/kg	7390	755349	7500	8010	4400	3710	100	755536
Total Antimony (Sb)	mg/kg	0.3	755349	0.4	0.5	0.3	0.3	0.1	755536
Total Arsenic (As)	mg/kg	4.8	755349	5.1	6.2	4.3	4.0	0.2	755536
Total Barium (Ba)	mg/kg	58.9	755349	66.4	78.0	97.5	102	0.1	755536
Total Beryllium (Be)	mg/kg	0.3	755349	0.3	0.3	0.1	0.1	0.1	755536
Total Bismuth (Bi)	mg/kg	0.3	755349	0.3	0.4	0.1	<0.1	0.1	755536
Total Cadmium (Cd)	mg/kg	0.11	755349	0.22	0.17	0.21	0.17	0.05	755536
Total Calcium (Ca)	mg/kg	2050	755349	2790	2910	54300	51700	100	755536
Total Chromium (Cr)	mg/kg	28.1	755349	14.7	12.9	9	8	1	755536
Total Cobalt (Co)	mg/kg	9.5	755349	7.1	9.0	4.3	4.4	0.3	755536
Total Copper (Cu)	mg/kg	20.9	755349	21.6	25.6	12.4	12.0	0.5	755536
Total Iron (Fe)	mg/kg	22300	755349	20900	23900	16200	13600	100	755536
Total Lead (Pb)	mg/kg	89.4	755349	44.4	44.9	33.7	25.7	0.1	755536
Total Magnesium (Mg)	mg/kg	4700	755349	4440	5230	16300	14900	100	755536
Total Manganese (Mn)	mg/kg	253	755349	300	361	251	248	0.2	755536
Total Mercury (Hg)	mg/kg	<0.05	755349	<0.05	<0.05	<0.05	<0.05	0.05	755536
Total Molybdenum (Mo)	mg/kg	0.4	755349	0.4	0.7	0.6	0.5	0.1	755536
Total Nickel (Ni)	mg/kg	11.2	755349	16.7	13.5	9.8	9.9	0.8	755536
Total Phosphorus (P)	mg/kg	272	755349	315	316	377	310	10	755536
Total Potassium (K)	mg/kg	3220	755349	2610	2320	586	526	100	755536
Total Selenium (Se)	mg/kg	<0.5	755349	0.6	<0.5	<0.5	<0.5	0.5	755536
Total Silver (Ag)	mg/kg	<0.05	755349	0.06	0.11	<0.05	<0.05	0.05	755536
Total Sodium (Na)	mg/kg	177	755349	192	110	204	199	100	755536
Total Strontium (Sr)	mg/kg	6.5	755349	5.2	6.5	70.2	72.0	0.1	755536
Total Thallium (Tl)	mg/kg	0.21	755349	0.35	0.17	0.05	<0.05	0.05	755536
Total Tin (Sn)	mg/kg	0.4	755349	0.4	0.3	0.3	0.2	0.1	755536
Total Titanium (Ti)	mg/kg	479	755349	448	414	75.2	62.6	1	755536
Total Vanadium (V)	mg/kg	18.9	755349	17.9	20.4	8	7	2	755536
Total Zinc (Zn)	mg/kg	53.6	755349	59.3	62.7	45.8	45.0	1	755536
Total Zirconium (Zr)	mg/kg	0.7	755349	0.7	0.8	1.2	1.2	0.5	755536

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773568	773569	773570	773571	773572		
Sampling Date		2005/04/18	2005/04/18	2005/04/18	2005/04/18	2005/04/19		
COC Number		15263	15263	15263	15263	15264		
	Units	**SITE 7-SA3**	**SITE 8-SA1**	**SITE 8-SA2**	**SITE 8-SA3**	**SITE 19-SA1**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	3700	4650	4970	3660	4510	100	755536
Total Antimony (Sb)	mg/kg	0.4	0.2	0.4	0.5	<0.1	0.1	755536
Total Arsenic (As)	mg/kg	4.8	4.0	15.2	19.6	0.9	0.2	755536
Total Barium (Ba)	mg/kg	145	76.5	102	50.3	31.9	0.1	755536
Total Beryllium (Be)	mg/kg	0.2	0.2	0.2	0.2	0.2	0.1	755536
Total Bismuth (Bi)	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	0.1	755536
Total Cadmium (Cd)	mg/kg	0.20	0.24	0.12	0.07	0.18	0.05	755536
Total Calcium (Ca)	mg/kg	52400	165000	109000	109000	4260	100	755536
Total Chromium (Cr)	mg/kg	8	35.4	14.2	7	11.0	1	755536
Total Cobalt (Co)	mg/kg	4.9	5.7	4.5	3.9	5.9	0.3	755536
Total Copper (Cu)	mg/kg	12.1	8.3	8.3	7.1	18.2	0.5	755536
Total Iron (Fe)	mg/kg	14000	12500	12900	12700	16000	100	755536
Total Lead (Pb)	mg/kg	29.8	206	81.3	12.6	24.3	0.1	755536
Total Magnesium (Mg)	mg/kg	15600	21800	14900	19600	2820	100	755536
Total Manganese (Mn)	mg/kg	282	408	317	311	213	0.2	755536
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755536
Total Molybdenum (Mo)	mg/kg	0.5	0.3	0.3	0.2	0.5	0.1	755536
Total Nickel (Ni)	mg/kg	10.0	10.0	9.8	9.4	13.4	0.8	755536
Total Phosphorus (P)	mg/kg	380	398	369	280	313	10	755536
Total Potassium (K)	mg/kg	601	437	398	393	1290	100	755536
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.5	0.5	755536
Total Silver (Ag)	mg/kg	<0.05	0.33	0.13	<0.05	0.06	0.05	755536
Total Sodium (Na)	mg/kg	175	316	882	<100	353	100	755536
Total Strontium (Sr)	mg/kg	73.2	433	243	175	21.9	0.1	755536
Total Thallium (Tl)	mg/kg	<0.05	<0.05	<0.05	<0.05	0.08	0.05	755536
Total Tin (Sn)	mg/kg	0.2	0.2	0.1	<0.1	0.3	0.1	755536
Total Titanium (Ti)	mg/kg	80.2	63.5	43.4	29.3	225	1	755536
Total Vanadium (V)	mg/kg	8	8	7	6	11.4	2	755536
Total Zinc (Zn)	mg/kg	52.2	40.7	27.4	21.6	50.2	1	755536
Total Zirconium (Zr)	mg/kg	2.2	2.4	1.3	0.9	0.5	0.5	755536

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773573	773574	773575	773576	773577		
Sampling Date		2005/04/19	2005/04/19	2005/04/19	2005/04/19	2005/04/19		
COC Number		15264	15264	15264	15264	15264		
	Units	**SITE 19-SA2**	**SITE 19-SA3**	**SITE 20-SA1**	**SITE 20-SA2**	**SITE 20-SA3**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	4080	3910	5560	5000	5920	100	755536
Total Antimony (Sb)	mg/kg	<0.1	<0.1	0.3	0.2	0.2	0.1	755536
Total Arsenic (As)	mg/kg	1.5	0.8	11.8	11.8	8.7	0.2	755536
Total Barium (Ba)	mg/kg	31.0	34.2	43.7	39.9	60.5	0.1	755536
Total Beryllium (Be)	mg/kg	0.2	0.2	<0.1	0.1	0.1	0.1	755536
Total Bismuth (Bi)	mg/kg	0.3	0.2	0.2	0.1	0.2	0.1	755536
Total Cadmium (Cd)	mg/kg	0.13	0.13	0.30	0.26	0.27	0.05	755536
Total Calcium (Ca)	mg/kg	8570	7460	23200	18800	20700	100	755536
Total Chromium (Cr)	mg/kg	18.0	10	15.1	14.3	13.7	1	755536
Total Cobalt (Co)	mg/kg	6.9	4.6	8.9	8.3	9.3	0.3	755536
Total Copper (Cu)	mg/kg	16.5	13.4	20.7	19.4	20.1	0.5	755536
Total Iron (Fe)	mg/kg	15300	12500	20200	19900	21200	100	755536
Total Lead (Pb)	mg/kg	21.7	17.9	37.1	27.1	29.7	0.1	755536
Total Magnesium (Mg)	mg/kg	2260	2180	6560	5950	6540	100	755536
Total Manganese (Mn)	mg/kg	203	175	400	361	426	0.2	755536
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755536
Total Molybdenum (Mo)	mg/kg	0.5	0.5	0.9	0.9	0.8	0.1	755536
Total Nickel (Ni)	mg/kg	15.7	11.0	21.4	22.0	22.4	0.8	755536
Total Phosphorus (P)	mg/kg	298	268	330	477	452	10	755536
Total Potassium (K)	mg/kg	1130	960	931	921	874	100	755536
Total Selenium (Se)	mg/kg	0.6	0.5	<0.5	0.6	0.5	0.5	755536
Total Silver (Ag)	mg/kg	0.08	0.06	0.10	0.09	0.09	0.05	755536
Total Sodium (Na)	mg/kg	260	156	437	370	137	100	755536
Total Strontium (Sr)	mg/kg	39.4	36.5	67.4	60.0	75.2	0.1	755536
Total Thallium (Tl)	mg/kg	0.15	0.07	0.08	0.07	0.06	0.05	755536
Total Tin (Sn)	mg/kg	0.2	0.2	0.2	0.2	0.3	0.1	755536
Total Titanium (Ti)	mg/kg	194	194	152	149	157	1	755536
Total Vanadium (V)	mg/kg	10.9	10	10.9	11.3	12.1	2	755536
Total Zinc (Zn)	mg/kg	46.9	43.0	72.0	62.6	63.4	1	755536
Total Zirconium (Zr)	mg/kg	<0.5	<0.5	0.7	0.6	0.7	0.5	755536

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773578	773579	773580	773581	773582		
Sampling Date		2005/04/19	2005/04/19	2005/04/19	2005/04/19	2005/04/19		
COC Number		15264	15264	15264	15264	15264		
	Units	**SITE 21-SA1**	**SITE 21-SA2**	**SITE 21-SA3**	**SITE 22-SA1**	**SITE 22-SA2**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	2230	2430	2560	5680	5390	100	755536
Total Antimony (Sb)	mg/kg	0.2	0.2	0.3	0.1	0.2	0.1	755536
Total Arsenic (As)	mg/kg	2.3	2.5	2.5	0.6	0.9	0.2	755536
Total Barium (Ba)	mg/kg	343	372	413	43.4	40.4	0.1	755536
Total Beryllium (Be)	mg/kg	0.2	0.1	0.2	0.2	0.2	0.1	755536
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	755536
Total Cadmium (Cd)	mg/kg	0.14	0.11	0.11	0.18	0.25	0.05	755536
Total Calcium (Ca)	mg/kg	117000	126000	132000	3190	3290	100	755536
Total Chromium (Cr)	mg/kg	8	9	9	14.6	22.6	1	755536
Total Cobalt (Co)	mg/kg	2.7	2.7	3.0	4.7	4.7	0.3	755536
Total Copper (Cu)	mg/kg	9.9	9.9	21.6	13.9	19.8	0.5	755536
Total Iron (Fe)	mg/kg	10300	9780	10400	12400	14500	100	755536
Total Lead (Pb)	mg/kg	20.9	19.7	18.3	23.0	58.2	0.1	755536
Total Magnesium (Mg)	mg/kg	25900	25200	25100	3830	3640	100	755536
Total Manganese (Mn)	mg/kg	289	244	253	226	244	0.2	755536
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755536
Total Molybdenum (Mo)	mg/kg	1.0	0.8	1.3	0.4	0.4	0.1	755536
Total Nickel (Ni)	mg/kg	9.1	8.4	9.9	14.8	15.3	0.8	755536
Total Phosphorus (P)	mg/kg	273	292	365	469	465	10	755536
Total Potassium (K)	mg/kg	412	434	527	1670	1540	100	755536
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.5	0.5	755536
Total Silver (Ag)	mg/kg	<0.05	<0.05	<0.05	0.06	0.05	0.05	755536
Total Sodium (Na)	mg/kg	225	243	1100	499	308	100	755536
Total Strontium (Sr)	mg/kg	142	145	155	19.2	19.7	0.1	755536
Total Thallium (Tl)	mg/kg	0.07	<0.05	<0.05	0.09	0.07	0.05	755536
Total Tin (Sn)	mg/kg	0.3	0.2	0.4	0.3	0.5	0.1	755536
Total Titanium (Ti)	mg/kg	17.9	18.8	22.2	424	382	1	755536
Total Vanadium (V)	mg/kg	7	7	6	21.5	21.9	2	755536
Total Zinc (Zn)	mg/kg	26.3	29.2	28.8	40.9	61.9	1	755536
Total Zirconium (Zr)	mg/kg	1.1	0.8	0.8	1.6	1.2	0.5	755536

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773583	773584	773585	773586	773587		
Sampling Date		2005/04/19	2005/04/20	2005/04/20	2005/04/20	2005/04/20		
COC Number		15264	15261	15261	15261	15261		
	Units	**SITE 22-SA3**	**SITE 23-SA1**	**SITE 23-SA2**	**SITE 23-SA3**	**SITE 24-SA1**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	4680	4510	4110	4160	9310	100	755536
Total Antimony (Sb)	mg/kg	0.3	0.1	0.1	0.2	0.3	0.1	755536
Total Arsenic (As)	mg/kg	1.7	4.2	2.1	1.7	3.2	0.2	755536
Total Barium (Ba)	mg/kg	44.6	75.1	54.2	73.9	54.6	0.1	755536
Total Beryllium (Be)	mg/kg	0.2	0.1	0.1	0.2	0.2	0.1	755536
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	755536
Total Cadmium (Cd)	mg/kg	0.34	0.12	0.10	0.10	0.22	0.05	755536
Total Calcium (Ca)	mg/kg	4830	1940	2670	2480	9310	100	755536
Total Chromium (Cr)	mg/kg	21.1	10.5	13.0	16.4	17.8	1	755536
Total Cobalt (Co)	mg/kg	5.1	4.9	3.9	4.7	11.5	0.3	755536
Total Copper (Cu)	mg/kg	20.0	23.3	19.4	20.9	42.6	0.5	755536
Total Iron (Fe)	mg/kg	13800	15800	14200	18100	30100	100	755536
Total Lead (Pb)	mg/kg	64.1	8.3	11.3	13.8	12.2	0.1	755536
Total Magnesium (Mg)	mg/kg	3860	2950	2360	3250	7880	100	755536
Total Manganese (Mn)	mg/kg	234	205	196	222	547	0.2	755536
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755536
Total Molybdenum (Mo)	mg/kg	0.7	0.7	0.6	0.7	0.7	0.1	755536
Total Nickel (Ni)	mg/kg	14.6	8.4	6.2	8.0	14.5	0.8	755536
Total Phosphorus (P)	mg/kg	436	427	454	541	656	10	755536
Total Potassium (K)	mg/kg	1340	1810	1350	1810	767	100	755536
Total Selenium (Se)	mg/kg	0.5	0.7	<0.5	<0.5	<0.5	0.5	755536
Total Silver (Ag)	mg/kg	0.07	0.06	0.05	0.06	0.09	0.05	755536
Total Sodium (Na)	mg/kg	426	437	297	466	779	100	755536
Total Strontium (Sr)	mg/kg	28.3	16.0	19.4	30.7	31.2	0.1	755536
Total Thallium (Tl)	mg/kg	0.12	0.16	0.17	0.13	<0.05	0.05	755536
Total Tin (Sn)	mg/kg	0.6	0.3	0.3	0.5	0.4	0.1	755536
Total Titanium (Ti)	mg/kg	355	380	357	486	656	1	755536
Total Vanadium (V)	mg/kg	22.4	33.8	32.8	39.9	61.0	2	755536
Total Zinc (Zn)	mg/kg	80.2	43.8	38.6	47.9	74.3	1	755536
Total Zirconium (Zr)	mg/kg	1.2	1.8	1.7	3.2	4.1	0.5	755536

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		773588	773589	773602	773603	773604		
Sampling Date		2005/04/20	2005/04/20	2005/04/17	2005/04/19	2005/04/17		
COC Number		15261	15261	15445	15445	15445		
	Units	**SITE 24-SA2**	**SITE 24-SA3**	**DUP 6**	**DUP 20**	**DUP 3**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	8870	8480	7230	5040	4500	100	755536
Total Antimony (Sb)	mg/kg	0.4	0.3	0.5	0.6	0.2	0.1	755536
Total Arsenic (As)	mg/kg	3.8	3.8	7.3	12.4	1.4	0.2	755536
Total Barium (Ba)	mg/kg	47.9	44.0	75.1	40.6	43.7	0.1	755536
Total Beryllium (Be)	mg/kg	0.2	0.2	0.3	0.1	0.2	0.1	755536
Total Bismuth (Bi)	mg/kg	0.1	<0.1	0.4	0.2	<0.1	0.1	755536
Total Cadmium (Cd)	mg/kg	0.20	0.20	0.16	0.27	0.10	0.05	755536
Total Calcium (Ca)	mg/kg	9150	8630	2740	23500	4010	100	755536
Total Chromium (Cr)	mg/kg	16.0	18.2	11.7	11.8	14.8	1	755536
Total Cobalt (Co)	mg/kg	10.4	10.0	9.4	8.3	4.1	0.3	755536
Total Copper (Cu)	mg/kg	40.2	37.4	26.8	19.1	16.0	0.5	755536
Total Iron (Fe)	mg/kg	30400	28000	24900	19700	13200	100	755536
Total Lead (Pb)	mg/kg	14.6	14.8	35.7	26.4	48.3	0.1	755536
Total Magnesium (Mg)	mg/kg	7890	7190	5410	6450	3050	100	755536
Total Manganese (Mn)	mg/kg	501	498	341	336	251	0.2	755536
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	755536
Total Molybdenum (Mo)	mg/kg	0.8	0.8	0.3	0.9	0.4	0.1	755536
Total Nickel (Ni)	mg/kg	14.0	13.5	13.5	19.6	6.8	0.8	755536
Total Phosphorus (P)	mg/kg	673	590	287	398	537	10	755536
Total Potassium (K)	mg/kg	654	591	2540	840	917	100	755536
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.6	0.5	755536
Total Silver (Ag)	mg/kg	0.08	0.08	0.07	0.09	0.05	0.05	755536
Total Sodium (Na)	mg/kg	552	479	100	304	215	100	755536
Total Strontium (Sr)	mg/kg	28.3	25.5	5.8	83.3	60.3	0.1	755536
Total Thallium (Tl)	mg/kg	<0.05	0.09	0.17	0.07	<0.05	0.05	755536
Total Tin (Sn)	mg/kg	0.5	0.4	0.3	0.2	0.2	0.1	755536
Total Titanium (Ti)	mg/kg	619	489	412	147	357	1	755536
Total Vanadium (V)	mg/kg	56.0	50.6	21.3	10.0	25.1	2	755536
Total Zinc (Zn)	mg/kg	80.8	64.9	59.8	58.6	42.5	1	755536
Total Zirconium (Zr)	mg/kg	4.4	2.9	1.0	0.6	2.9	0.5	755536

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		773595	773596	773597	773598	773599	773600		
Sampling Date		2005/04/17	2005/04/17	2005/04/17	2005/04/18	2005/04/18	2005/04/19		
COC Number		15261	15261	15261	15261	15261	15261		
	Units	**SITE 1**	**SITE 3**	**SITE 4**	**SITE 6**	**SITE 8**	**SITE 21**	**DL**	**QC Batch**
Anions									
Dissolved Chloride (Cl)	mg/L	<0.5	4.0	1.9	36.7	17.1	0.6	0.5	755475
Please check for attached comments									

Maxxam ID		773601		
Sampling Date		2005/04/19		
COC Number		15445		
	Units	**SITE 22**	**DL**	**QC Batch**
Anions				
Dissolved Chloride (Cl)	mg/L	10.4	0.5	755475
Please check for attached comments				

Maxxam Analytics Inc

Maxxam Job #: A512721
Report Date: 2005/04/26

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.7
Site Reference:
Sampler Initials: SM

General Comments

Results relate only to the items tested.

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.7
P.O. #:
Site Reference:

Quality Assurance Report

Maxxam Job Number: VA512721

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
753960	MM3	SPIKE	Soluble (2:1) pH	2005/04/25		100	%	96 - 104
		RPD	Soluble (2:1) pH	2005/04/25	1		%	20
754024	MM3	SPIKE	Soluble (2:1) pH	2005/04/25		101	%	96 - 104
		RPD	Soluble (2:1) pH	2005/04/25	0.2		%	20
754175	MM3	SPIKE	Soluble (2:1) pH	2005/04/25		101	%	96 - 104
		RPD	Soluble (2:1) pH	2005/04/25	0.9		%	20
755349	RW4	MATRIX SPIKE	Total Arsenic (As)	2005/04/25		109	%	75 - 125
			Total Cadmium (Cd)	2005/04/25		101	%	75 - 125
			Total Chromium (Cr)	2005/04/25		103	%	75 - 125
			Total Cobalt (Co)	2005/04/25		107	%	75 - 125
			Total Copper (Cu)	2005/04/25		115	%	75 - 125
			Total Lead (Pb)	2005/04/25		102	%	75 - 125
			Total Mercury (Hg)	2005/04/25		99	%	75 - 125
			Total Selenium (Se)	2005/04/25		105	%	75 - 125
			Total Thallium (Tl)	2005/04/25		97	%	75 - 125
			Total Zinc (Zn)	2005/04/25		118	%	75 - 125
		SPIKE	Total Arsenic (As)	2005/04/25		112	%	75 - 125
			Total Cadmium (Cd)	2005/04/25		101	%	75 - 125
			Total Chromium (Cr)	2005/04/25		105	%	75 - 125
			Total Cobalt (Co)	2005/04/25		111	%	75 - 125
			Total Copper (Cu)	2005/04/25		115	%	75 - 125
			Total Lead (Pb)	2005/04/25		105	%	75 - 125
			Total Mercury (Hg)	2005/04/25		103	%	75 - 125
			Total Selenium (Se)	2005/04/25		108	%	75 - 125
			Total Thallium (Tl)	2005/04/25		99	%	75 - 125
			Total Zinc (Zn)	2005/04/25		113	%	75 - 125
		BLANK	Total Aluminum (Al)	2005/04/25	<100		mg/kg	
			Total Antimony (Sb)	2005/04/25	<0.1		mg/kg	
			Total Arsenic (As)	2005/04/25	<0.2		mg/kg	
			Total Barium (Ba)	2005/04/25	<0.1		mg/kg	
			Total Beryllium (Be)	2005/04/25	<0.1		mg/kg	
			Total Bismuth (Bi)	2005/04/25	<0.1		mg/kg	
			Total Cadmium (Cd)	2005/04/25	<0.05		mg/kg	
			Total Calcium (Ca)	2005/04/25	<100		mg/kg	
			Total Chromium (Cr)	2005/04/25	<1		mg/kg	
			Total Cobalt (Co)	2005/04/25	<0.3		mg/kg	
			Total Copper (Cu)	2005/04/25	<0.5		mg/kg	
			Total Iron (Fe)	2005/04/25	<100		mg/kg	
			Total Lead (Pb)	2005/04/25	<0.1		mg/kg	
			Total Magnesium (Mg)	2005/04/25	<100		mg/kg	
			Total Manganese (Mn)	2005/04/25	<0.2		mg/kg	
			Total Mercury (Hg)	2005/04/25	<0.05		mg/kg	
			Total Molybdenum (Mo)	2005/04/25	<0.1		mg/kg	
			Total Nickel (Ni)	2005/04/25	<0.8		mg/kg	
			Total Phosphorus (P)	2005/04/25	<10		mg/kg	
			Total Potassium (K)	2005/04/25	<100		mg/kg	
			Total Selenium (Se)	2005/04/25	<0.5		mg/kg	
			Total Silver (Ag)	2005/04/25	<0.05		mg/kg	
			Total Sodium (Na)	2005/04/25	<100		mg/kg	
			Total Strontium (Sr)	2005/04/25	<0.1		mg/kg	
			Total Thallium (Tl)	2005/04/25	<0.05		mg/kg	
			Total Tin (Sn)	2005/04/25	<0.1		mg/kg	
			Total Titanium (Ti)	2005/04/25	1, DL=1		mg/kg	
			Total Vanadium (V)	2005/04/25	<2		mg/kg	
			Total Zinc (Zn)	2005/04/25	<1		mg/kg	
			Total Zirconium (Zr)	2005/04/25	<0.5		mg/kg	

Quality Assurance Report (Continued)

Maxxam Job Number: VA512721

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
755349 RW4	RPD	Total Aluminum (Al)	2005/04/25	9.2		%	35
		Total Antimony (Sb)	2005/04/25	NC		%	35
		Total Arsenic (As)	2005/04/25	17.9		%	35
		Total Barium (Ba)	2005/04/25	3.8		%	35
		Total Beryllium (Be)	2005/04/25	NC		%	35
		Total Bismuth (Bi)	2005/04/25	NC		%	35
		Total Cadmium (Cd)	2005/04/25	NC		%	35
		Total Calcium (Ca)	2005/04/25	9.2		%	35
		Total Chromium (Cr)	2005/04/25	3.7		%	35
		Total Cobalt (Co)	2005/04/25	5.2		%	35
		Total Copper (Cu)	2005/04/25	26.4		%	35
		Total Iron (Fe)	2005/04/25	0.2		%	35
		Total Lead (Pb)	2005/04/25	0.6		%	35
		Total Magnesium (Mg)	2005/04/25	1.1		%	35
		Total Manganese (Mn)	2005/04/25	0.6		%	35
		Total Mercury (Hg)	2005/04/25	NC		%	35
		Total Molybdenum (Mo)	2005/04/25	NC		%	35
		Total Nickel (Ni)	2005/04/25	0.5		%	35
		Total Phosphorus (P)	2005/04/25	3.8		%	35
		Total Potassium (K)	2005/04/25	9.3		%	35
		Total Selenium (Se)	2005/04/25	NC		%	35
		Total Silver (Ag)	2005/04/25	NC		%	35
		Total Sodium (Na)	2005/04/25	NC		%	35
		Total Strontium (Sr)	2005/04/25	2.4		%	35
		Total Thallium (Tl)	2005/04/25	NC		%	35
		Total Tin (Sn)	2005/04/25	NC		%	35
		Total Titanium (Ti)	2005/04/25	5.9		%	35
		Total Vanadium (V)	2005/04/25	9.0		%	35
		Total Zinc (Zn)	2005/04/25	7.3		%	35
		Total Zirconium (Zr)	2005/04/25	NC		%	35
755450 BH2	BLANK	Chloride (Cl)	2005/04/25	<50		ug/g	
	RPD	Chloride (Cl)	2005/04/25	NC		%	35
		Chloride (Cl)	2005/04/25	NC		%	35
		Chloride (Cl)	2005/04/25	NC		%	35
755475 BH2	SPIKE	Dissolved Chloride (Cl)	2005/04/25		104	%	80 - 120
	BLANK	Dissolved Chloride (Cl)	2005/04/25	<0.5		mg/L	
	RPD	Dissolved Chloride (Cl)		TBA		%	25
755536 RW4	MATRIX SPIKE	Total Arsenic (As)	2005/04/25		110	%	75 - 125
		Total Cadmium (Cd)	2005/04/25		99	%	75 - 125
		Total Chromium (Cr)	2005/04/25		101	%	75 - 125
		Total Cobalt (Co)	2005/04/25		105	%	75 - 125
		Total Copper (Cu)	2005/04/25		111	%	75 - 125
		Total Lead (Pb)	2005/04/25		105	%	75 - 125
		Total Mercury (Hg)	2005/04/25		100	%	75 - 125
		Total Selenium (Se)	2005/04/25		103	%	75 - 125
		Total Thallium (Tl)	2005/04/25		98	%	75 - 125
		Total Zinc (Zn)	2005/04/25		114	%	75 - 125
	SPIKE	Total Arsenic (As)	2005/04/25		109	%	75 - 125
		Total Cadmium (Cd)	2005/04/25		101	%	75 - 125
		Total Chromium (Cr)	2005/04/25		99	%	75 - 125
		Total Cobalt (Co)	2005/04/25		107	%	75 - 125
		Total Copper (Cu)	2005/04/25		113	%	75 - 125
		Total Lead (Pb)	2005/04/25		102	%	75 - 125
		Total Mercury (Hg)	2005/04/25		99	%	75 - 125
		Total Selenium (Se)	2005/04/25		104	%	75 - 125
		Total Thallium (Tl)	2005/04/25		99	%	75 - 125

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.7
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA512721

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
755536 RW4	SPIKE	Total Zinc (Zn)	2005/04/25		110	%	75 - 125
	BLANK	Total Aluminum (Al)	2005/04/25	<100		mg/kg	
		Total Antimony (Sb)	2005/04/25	<0.1		mg/kg	
		Total Arsenic (As)	2005/04/25	<0.2		mg/kg	
		Total Barium (Ba)	2005/04/25	<0.1		mg/kg	
		Total Beryllium (Be)	2005/04/25	<0.1		mg/kg	
		Total Bismuth (Bi)	2005/04/25	<0.1		mg/kg	
		Total Cadmium (Cd)	2005/04/25	<0.05		mg/kg	
		Total Calcium (Ca)	2005/04/25	<100		mg/kg	
		Total Chromium (Cr)	2005/04/25	<1		mg/kg	
		Total Cobalt (Co)	2005/04/25	<0.3		mg/kg	
		Total Copper (Cu)	2005/04/25	<0.5		mg/kg	
		Total Iron (Fe)	2005/04/25	<100		mg/kg	
		Total Lead (Pb)	2005/04/25	<0.1		mg/kg	
		Total Magnesium (Mg)	2005/04/25	<100		mg/kg	
		Total Manganese (Mn)	2005/04/25	<0.2		mg/kg	
		Total Mercury (Hg)	2005/04/25	<0.05		mg/kg	
		Total Molybdenum (Mo)	2005/04/25	<0.1		mg/kg	
		Total Nickel (Ni)	2005/04/25	<0.8		mg/kg	
		Total Phosphorus (P)	2005/04/25	<10		mg/kg	
		Total Potassium (K)	2005/04/25	<100		mg/kg	
		Total Selenium (Se)	2005/04/25	<0.5		mg/kg	
		Total Silver (Ag)	2005/04/25	<0.05		mg/kg	
		Total Sodium (Na)	2005/04/25	<100		mg/kg	
		Total Strontium (Sr)	2005/04/25	<0.1		mg/kg	
		Total Thallium (Tl)	2005/04/25	0.05, DL=0.05		mg/kg	
		Total Tin (Sn)	2005/04/25	<0.1		mg/kg	
		Total Titanium (Ti)	2005/04/25	<1		mg/kg	
		Total Vanadium (V)	2005/04/25	<2		mg/kg	
		Total Zinc (Zn)	2005/04/25	<1		mg/kg	
		Total Zirconium (Zr)	2005/04/25	<0.5		mg/kg	
	RPD	Total Aluminum (Al)	2005/04/25	2.9		%	35
		Total Antimony (Sb)	2005/04/25	NC		%	35
		Total Arsenic (As)	2005/04/25	4.3		%	35
		Total Barium (Ba)	2005/04/25	6.2		%	35
		Total Beryllium (Be)	2005/04/25	NC		%	35
		Total Bismuth (Bi)	2005/04/25	NC		%	35
		Total Cadmium (Cd)	2005/04/25	NC		%	35
		Total Calcium (Ca)	2005/04/25	4.4		%	35
		Total Chromium (Cr)	2005/04/25	4.7		%	35
		Total Cobalt (Co)	2005/04/25	3.5		%	35
		Total Copper (Cu)	2005/04/25	2.9		%	35
		Total Iron (Fe)	2005/04/25	2.1		%	35
		Total Lead (Pb)	2005/04/25	5.4		%	35
		Total Magnesium (Mg)	2005/04/25	5.6		%	35
		Total Manganese (Mn)	2005/04/25	5.5		%	35
		Total Mercury (Hg)	2005/04/25	NC		%	35
		Total Molybdenum (Mo)	2005/04/25	NC		%	35
		Total Nickel (Ni)	2005/04/25	33.7		%	35
		Total Phosphorus (P)	2005/04/25	5.2		%	35
		Total Potassium (K)	2005/04/25	8.7		%	35
		Total Selenium (Se)	2005/04/25	NC		%	35
		Total Silver (Ag)	2005/04/25	NC		%	35
		Total Sodium (Na)	2005/04/25	NC		%	35
		Total Strontium (Sr)	2005/04/25	1.8		%	35
		Total Thallium (Tl)	2005/04/25	NC		%	35

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.7
P.O. #:
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA512721

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
755536 RW4	RPD	Total Tin (Sn)	2005/04/25	NC		%	35
		Total Titanium (Ti)	2005/04/25	12.7		%	35
		Total Vanadium (V)	2005/04/25	0.007		%	35
		Total Zinc (Zn)	2005/04/25	6.1		%	35
		Total Zirconium (Zr)	2005/04/25	NC		%	35
		Total Aluminum (Al)	2005/04/25	1.5		%	35
		Total Antimony (Sb)	2005/04/25	NC		%	35
		Total Arsenic (As)	2005/04/25	0.05		%	35
		Total Barium (Ba)	2005/04/25	6.5		%	35
		Total Beryllium (Be)	2005/04/25	NC		%	35
		Total Bismuth (Bi)	2005/04/25	NC		%	35
		Total Cadmium (Cd)	2005/04/25	NC		%	35
		Total Calcium (Ca)	2005/04/25	3.1		%	35
		Total Chromium (Cr)	2005/04/25	7.8		%	35
		Total Cobalt (Co)	2005/04/25	0.003		%	35
		Total Copper (Cu)	2005/04/25	15.4		%	35
		Total Iron (Fe)	2005/04/25	0.7		%	35
		Total Lead (Pb)	2005/04/25	5.2		%	35
		Total Magnesium (Mg)	2005/04/25	3.6		%	35
		Total Manganese (Mn)	2005/04/25	3.8		%	35
		Total Mercury (Hg)	2005/04/25	NC		%	35
		Total Molybdenum (Mo)	2005/04/25	7.7		%	35
		Total Nickel (Ni)	2005/04/25	12.2		%	35
		Total Phosphorus (P)	2005/04/25	5.0		%	35
		Total Potassium (K)	2005/04/25	2.6		%	35
		Total Selenium (Se)	2005/04/25	NC		%	35
		Total Silver (Ag)	2005/04/25	NC		%	35
		Total Sodium (Na)	2005/04/25	NC		%	35
		Total Strontium (Sr)	2005/04/25	25.5		%	35
		Total Thallium (Tl)	2005/04/25	NC		%	35
		Total Tin (Sn)	2005/04/25	NC		%	35
		Total Titanium (Ti)	2005/04/25	7.1		%	35
		Total Vanadium (V)	2005/04/25	5.3		%	35
		Total Zinc (Zn)	2005/04/25	3.7		%	35
		Total Zirconium (Zr)	2005/04/25	NC		%	35

TBA = Result to follow
NC = Non-calculable
RPD = Relative Percent Difference

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWEL Date: Apl 22/05 Initial: MM C of C #: F 15262

SAMPLE #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☐ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☐ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____

☐ Insufficient Sample (lab use only)

o Poured off anions

Comments: _____

	Temperature			Average
Cooler #1	18	18	18	18
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE 1 OF 5

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ANALYSIS REQUEST

F 15262

page 304 of 462 TRA-2017-70442

COMPANY NAME: Jacques Whitford.

PH. #: 604 436 3014
E-mail:
FAX #: 604 436 3752

COMPANY ADDRESS: 4370 Dominion Street Suite 500 Burnaby BC V5G 4L7

CLIENT PROJECT ID: (#) BCN 61843.7

SAMPLER NAME (PRINT): Stewart McBride.

PROJECT MANAGER: Liliana Serade.

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	D. Metals	Chloride
1	Site 1 - SA1	773539			X			17/04/05			X	X
2	Site 1 - SA2	49			X			"			X	X
3	Site 1 - SA3	50			X			"			X	X
4	" 2 SA1	51			X			"			X	X
5	" 2 SA2	52			X			"			X	X
6	" 2 SA3	53			X			"			X	X
7	" 3 SA1	54			X			"			X	X
8	" 3 SA2	55			X			"			X	X
9	" 3 SA3	56			X			"			X	X
10	" 4 SA1	57			X			"			X	X
11	" 4 SA2	58			X			"			X	X
12	" 4 SA3.	59			X			"			X	X

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

STANDARD	5 BUSINESS DAYS	☑
RUSH	3 BUSINESS DAYS	☐
RUSH	2 BUSINESS DAYS	☐
URGENT	1 BUSINESS DAY	☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR

☐ CCME
☑ CSR
☐ ALBERTA TIER 1
☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C: 18, 18, 18

DUE DATE: Apr 26/05 (5pm)

LOG IN CHECK:

RELINQUISHED BY SAMPLER: A Sherland	DATE: DD/MM/YY 21/04/05	TIME: AM	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY 21/04/05	TIME: 11:30	RECEIVED BY LABORATORY: CW

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWEL Date: Apr 21/05 Initial: RM C of C #: F 15263

Cooler #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																							
2	1																							
3	1																							
4	1																							
5	1																							
6	1																							
7	1																							
8	1																							
9	1																							
10	1																							
11	1																							
12	1																							

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☐ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☐ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____

☐ Insufficient Sample (lab use only)

o Poured off anions

Comments: _____

	Temperature			Average
Cooler #1	18	18	18	18
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com
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Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

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51272/ ANALYSIS REQUEST F 15263

COMPANY NAME: Jacques Whitford.

PH. #: 604 436 3014
E-mail:
FAX #: 604 436 3752

COMPANY ADDRESS: 4370 Dominion St 5th floor Burnaby BC V5G 4L7

CLIENT PROJECT ID: (#) BCV61843.7

SAMPLER NAME (PRINT): Stewart McBride.

PROJECT MANAGER: Liliana Jerade.

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	D. Metals	Chloride
1	Site 5 SA1	773560			X			17/04/05			X	X
2	" 5 SA2	61			X			"			X	X
3	" 5 SA3	62			X			17/04/05			X	X
4	" 6 SA1	63			X			18/04/05			X	X
5	" 6 SA2	64			X			"			X	X
6	" 6 SA3	65			X			"			X	X
7	" 7 SA1	66			X			"			X	X
8	" 7 SA2	67			X			"			X	X
9	" 7 SA3	68			X			"			X	X
10	" 8 SA1	69			X			"			X	X
11	" 8 SA2	70			X			"			X	X
12	" 8 SA3	71			X			"			X	X

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

STANDARD	5 BUSINESS DAYS	☑
RUSH	3 BUSINESS DAYS	☐
RUSH	2 BUSINESS DAYS	☐
URGENT	1 BUSINESS DAY	☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR

☐ CCME
☐ CSR
☐ ALBERTA TIER 1
☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C: 18, 18, 18

DUE DATE: 26/05

LOG IN CHECK:

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 21/04/05	TIME: AM	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY 21/04/05	TIME: 11:30	RECEIVED BY LABORATORY:

COCFORM - BC - 01/05

ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWEL Date: Apr 22/05 Initial: DD C of C #: F 15264

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																							
2	1																							
3	1																							
4	1																							
5	1																							
6	1																							
7	1																							
8	1																							
9	1																							
10	1																							
11	1																							
12	1																							

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

o Poured off anions

Comments: _____

	Temperature			Average
Cooler #1	18	18	18	18
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, BC V5A 4N5
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Phone: (604) 444-4808
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Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

51272 / ANALYSIS REQUEST F 15264

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COMPANY NAME: Jacques Whitford.
PH. #: 604 436 3014
E-mail:
FAX #: 604 436 3752
COMPANY ADDRESS: 4370 Dominion St. 5th floor Burnaby BC V5G 4L7
CLIENT PROJECT ID: (#) BCV6184 8.7
SAMPLER NAME (PRINT): Stewart McBride
PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	D. Metals	Chloride
1	Stc 19 SA1	773572			X			19/04/05			X	X
2	" 19 SA2	73			X			"			X	X
3	" 19 SA3	74			X			"			X	X
4	" 20 SA1	75			X			"			X	X
5	" 20 SA2	76			X			"			X	X
6	" 20 SA3	77			X			"			X	X
7	" 21 SA1	78			X			"			X	X
8	" 21 SA2	79			X			"			X	X
9	" 21 SA3	80			X			"			X	X
10	" 22 SA1	81			X			"			X	X
11	" 22 SA2	82			X			"			X	X
12	" 22 SA3	83			X			"			X	X

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

STANDARD	5 BUSINESS DAYS	☑
RUSH	3 BUSINESS DAYS	☐
RUSH	2 BUSINESS DAYS	☐
URGENT	1 BUSINESS DAY	☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR

☐ CCME
☑ CSR
☐ ALBERTA TIER 1
☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C: 18, 18, 18

DUE DATE: Apr 26/05 rush

LOG IN CHECK:

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 21/04/05	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY 21/04/05	TIME: 11:30	RECEIVED BY LABORATORY:

COCFORM - BC - 01/05 ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: Jwa Date: Apr 22/05 Initial: TM C of C #: F 15261

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																							
2	1																							
3	1																							
4	1																							
5	1																							
6					1																			
7								2																
8								2																
9								2																
10								2																
11					1																			

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

Poured off anions

Comments: _____

	Temperature			Average
Cooler #1	18	18	18	18
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

517721

ANALYSIS REQUEST F 15261

COMPANY NAME: Jacques Whitford	PH. #: 604 436 3014 E-mail: FAX #: 604 436 3752
COMPANY ADDRESS: 4370 Dominion St 5th floor Burnaby V5G 4L7	CLIENT PROJECT ID: (#) BCV6184.37
SAMPLER NAME (PRINT): Stewart McBride	PROJECT MANAGER: Liliana Serade.

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	D. Metals	Chloride
1	Site 23 SA1	773584			X			20/04/05			X	X
2	" 23 SA2	85			X			"			X	X
3	" 23 SA3	86			X			"			X	X
4	" 24 SA1	87			X			"			X	X
5	" 24 SA2	88			X			"			X	X
6	" 24 SA3	89			X			"			X	X
7	Site 1	95		X				17/04/05				X
8	Site 3	96		X				"				X
9	Site 4	97		X				"				X
10	Site 6	98		X				18/04/05				X
11	Site 8	99		X				"				X
12	Site 21	600		X				19/04/05				X

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

STANDARD	5 BUSINESS DAYS	☑
RUSH	3 BUSINESS DAYS	☐
RUSH	2 BUSINESS DAYS	☐
URGENT	1 BUSINESS DAY	☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR

☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C:	DUE DATE:	LOG IN CHECK:
18, 18, 18	Apr 26/05 TAT	

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 21/04/05	TIME: AM.	RECEIVED BY:	
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:	
RELINQUISHED BY:	DATE: DD/MM/YY 21/04/05	TIME: 11:30	RECEIVED BY LABORATORY:	

COCFORM - BC - 01/05 ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

page 310 of 462 TRA-2017-70442

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JWEL Date: Apl 22/05 Initial: TM C of C #: F 15445

# of Samples	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1					–																		
2	–				–																		
3	–				–																		
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies
	Insufficient Sample (lab use only)

℘ Poured off anions

Comments:

	Temperature			Average
Cooler #1	18	18	18	18
Cooler #2				
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs:

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, BC V5A 4N5
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Phone: (604) 444-4808
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Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

page 312 of 462 TRA-2017-70442

5/2721

ANALYSIS REQUEST F 15445

COMPANY NAME: Jacques Whitford.	PH. #: 604 436 3014 E-mail: FAX #: 604 436 3752
COMPANY ADDRESS: 4370 Dominion St Suite 500 Burnaby BC V5G 4L7	CLIENT PROJECT ID: (#) BCV618437
SAMPLER NAME (PRINT):	PROJECT MANAGER: Liliana Jerade

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	D. Metals	D. Chloride	
1	Site 22	773601		X				19/04/05				X	
2	[illegible]				[illegible]			[illegible]					
3	Dup 6	602			X			18/04/05			X	X	
4	Dup 20	03			X			19/04/05			X	X	
5	DUP 3	04			X			17/04/05			X	X	
6													
7													
8													
9													
10													
11													
12													

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

STANDARD	5 BUSINESS DAYS	☒
RUSH	3 BUSINESS DAYS	☐
RUSH	2 BUSINESS DAYS	☐
URGENT	1 BUSINESS DAY	☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR.

☐ COME
☒ CSR
☐ ALBERTA TIER 1
☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C: 18, 18, 18

DUE DATE: Apl 26/05

LOG IN CHECK:

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 21/04/05	TIME: AM	RECEIVED BY:	
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:	
RELINQUISHED BY:	DATE: DD/MM/YY 21/04/05	TIME: 11:30	RECEIVED BY LABORATORY:	

COCFORM - BC - 01/05

ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

Phase 8

MaxXam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
JWEL-BBY
4370 DOMINION ST. 5TH FLOOR
BURNABY, BC
Canada V5G4L7

Attention: Liliana Jerade

Report Date: 2005/04/29

Your P.O. #: JW2005
Your Project #: BCV61843.8
Your C.O.C. #: 15265, 15266, 15446, 15448

ANALYTICAL REPORT

MAXXAM JOB #: A513274
Received: 2005/04/25, 15:40

Sample Matrix: Soil
Samples Received: 42

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (soil)	42	2005/04/28	2005/04/28	ING303 Rev.3.4	Carter, SSMA 18.2.4
Elements by ICPMS (total)	42	2005/04/28	2005/04/28	ING112 Rev 1.5	Based on EPA 200.8
pH (2:1 DI Water Extract) (1)	11	2005/04/27	2005/04/27	ING416 Rev.1.2	Carter, SSMA 16.2
pH (2:1 DI Water Extract) (1)	31	2005/04/27	2005/04/28	ING416 Rev.1.2	Carter, SSMA 16.2

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (IC) (1)	3	N/A	2005/04/28	ING303 Rev.3.4	SM - 4110B

(1) SCC/CAEAL

MAXXAM Analytics Inc.

LEE CARD

LC4/lc4
encl.

Total cover pages: 1

This document is in electronic format, hard copy is available on request.

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		776582	776583	776587	776588	776589	776590		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15266	15266	15446	15446	15446	15446		
	Units	**SITE 18 SA2**	**SITE 18 SA3**	**SITE 14 SA2**	**SITE 14 SA2 DUP**	**SITE 14 SA3**	**SITE 14 SA1**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.94	9.00	9.23	9.05	9.21	9.38	0.01	757537
ANIONS									
Chloride (Cl)	ug/g	205	239	188	134	87	350	50	758538
Please check for attached comments									

Maxxam ID		776591		776592	776593	776594	776595		
Sampling Date		2005/04/25		2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446		15446	15446	15446	15446		
	Units	**SITE 13 SA3**	**QC Batch**	**SITE 13 SA2**	**SITE 13 SA1**	**SITE 12 SA3**	**SITE 12 SA1**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.09	757537	8.64	8.81	8.88	9.91	0.01	757863
ANIONS									
Chloride (Cl)	ug/g	<50	758538	93	54	<50	61	50	758538
Please check for attached comments									

Maxxam ID		776596	776597	776598	776599	776600	776601		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446	15446	15446	15448	15448	15448		
	Units	**SITE 12 SA2**	**SITE 26 SA1**	**SITE 26 SA2**	**SITE 26 SA3**	**SITE 11 SA3**	**SITE 11 SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	9.50	8.93	8.34	8.02	8.12	8.25	0.01	757863
ANIONS									
Chloride (Cl)	ug/g	<50	105	152	57	98	<50	50	758538
Please check for attached comments									

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776560	776562	776563	776564	776565		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15265	15265	15265	15265	15265		
	Units	**SITE 25 SA1**	**SITE 25 SA2**	**SITE 25 SA3**	**SITE 25 SA3 DUP**	**SITE 27 SA1**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	9740	9120	7110	8510	7100	100	758858
Total Antimony (Sb)	mg/kg	0.3	0.3	0.3	0.3	0.2	0.1	758858
Total Arsenic (As)	mg/kg	3.0	3.0	3.1	2.9	4.0	0.2	758858
Total Barium (Ba)	mg/kg	61.3	81.0	56.1	62.4	16.6	0.1	758858
Total Beryllium (Be)	mg/kg	0.2	0.2	0.2	0.2	<0.1	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	0.1	758858
Total Cadmium (Cd)	mg/kg	0.18	0.22	0.16	0.20	0.07	0.05	758858
Total Calcium (Ca)	mg/kg	6340	7200	4110	5210	44300	100	758858
Total Chromium (Cr)	mg/kg	33.0	31.4	25.5	26.7	12.6	1	758858
Total Cobalt (Co)	mg/kg	9.2	8.9	7.8	8.0	8.0	0.3	758858
Total Copper (Cu)	mg/kg	23.0	21.7	17.1	20.4	17.3	0.5	758858
Total Iron (Fe)	mg/kg	21600	21200	18900	19900	22900	100	758858
Total Lead (Pb)	mg/kg	47.1	48.5	42.6	49.7	21.1	0.1	758858
Total Magnesium (Mg)	mg/kg	6840	7230	5490	5700	6130	100	758858
Total Manganese (Mn)	mg/kg	399	399	357	351	515	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.8	0.7	0.6	0.8	0.5	0.1	758858
Total Nickel (Ni)	mg/kg	29.4	30.7	26.3	27.0	19.7	0.8	758858
Total Phosphorus (P)	mg/kg	550	520	475	579	400	10	758858
Total Potassium (K)	mg/kg	367	381	407	312	520	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.07	0.06	0.06	0.08	<0.05	0.05	758858
Total Sodium (Na)	mg/kg	280	202	280	210	170	100	758858
Total Strontium (Sr)	mg/kg	16.0	15.1	14.0	15.8	212	0.1	758858
Total Thallium (Tl)	mg/kg	<0.05	<0.05	0.05	0.11	<0.05	0.05	758858
Total Tin (Sn)	mg/kg	0.2	0.3	0.2	0.3	0.1	0.1	758858
Total Titanium (Ti)	mg/kg	755	750	564	717	65.4	1	758858
Total Vanadium (V)	mg/kg	36.4	37.5	33.2	35.2	10.1	2	758858
Total Zinc (Zn)	mg/kg	51.9	56.7	47.2	52.6	45.1	1	758858
Total Zirconium (Zr)	mg/kg	5.1	4.5	4.1	4.6	0.9	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776575	776576	776577	776578	776579		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15266	15266	15266	15266	15266		
	Units	**SITE 15 SA1**	**SITE 15 SA2**	**SITE 15 SA3**	**SITE 17 SA1**	**SITE 17 SA2**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	8460	8360	7800	8520	8150	100	758858
Total Antimony (Sb)	mg/kg	0.3	0.2	0.2	0.9	1.0	0.1	758858
Total Arsenic (As)	mg/kg	3.3	3.4	3.4	7.5	7.6	0.2	758858
Total Barium (Ba)	mg/kg	108	98.9	95.2	75.5	84.3	0.1	758858
Total Beryllium (Be)	mg/kg	0.3	0.3	0.3	0.3	0.2	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.18	0.20	0.18	0.67	0.58	0.05	758858
Total Calcium (Ca)	mg/kg	14500	16100	16900	18800	13600	100	758858
Total Chromium (Cr)	mg/kg	36.8	28.3	29.0	30.4	28.9	1	758858
Total Cobalt (Co)	mg/kg	14.4	16.0	13.4	9.7	10.1	0.3	758858
Total Copper (Cu)	mg/kg	29.5	28.2	28.0	36.5	37.0	0.5	758858
Total Iron (Fe)	mg/kg	28500	29600	26900	24200	24600	100	758858
Total Lead (Pb)	mg/kg	16.7	3.8	7.9	11.9	12.4	0.1	758858
Total Magnesium (Mg)	mg/kg	13000	12800	11100	8610	7540	100	758858
Total Manganese (Mn)	mg/kg	572	593	729	801	515	0.2	758858
Total Mercury (Hg)	mg/kg	0.05	<0.05	0.05	0.07	0.06	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.7	0.6	0.7	1.5	1.8	0.1	758858
Total Nickel (Ni)	mg/kg	66.6	65.7	54.7	34.6	33.4	0.8	758858
Total Phosphorus (P)	mg/kg	764	733	722	873	676	10	758858
Total Potassium (K)	mg/kg	769	613	620	657	722	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	0.6	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.09	0.08	0.08	0.12	0.13	0.05	758858
Total Sodium (Na)	mg/kg	615	371	356	743	298	100	758858
Total Strontium (Sr)	mg/kg	64.9	72.5	60.8	86.0	59.2	0.1	758858
Total Thallium (Tl)	mg/kg	0.08	0.09	0.11	0.21	0.14	0.05	758858
Total Tin (Sn)	mg/kg	0.5	0.3	0.2	0.2	0.2	0.1	758858
Total Titanium (Ti)	mg/kg	577	534	519	493	525	1	758858
Total Vanadium (V)	mg/kg	43.3	40.5	40.8	47.7	48.1	2	758858
Total Zinc (Zn)	mg/kg	63.1	60.6	57.7	89.2	91.0	1	758858
Total Zirconium (Zr)	mg/kg	6.2	5.4	5.8	4.4	4.1	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776588	776589	776590	776591	776592		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446	15446	15446	15446	15446		
	Units	**SITE 14 SA2 DUP**	**SITE 14 SA3**	**SITE 14 SA1**	**SITE 13 SA3**	**SITE 13 SA2**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	13100	13200	12300	33500	21200	100	758858
Total Antimony (Sb)	mg/kg	0.2	0.2	0.2	0.2	<0.1	0.1	758858
Total Arsenic (As)	mg/kg	2.6	2.4	2.0	2.3	0.9	0.2	758858
Total Barium (Ba)	mg/kg	97.8	102	63.1	127	80.2	0.1	758858
Total Beryllium (Be)	mg/kg	0.4	0.4	0.3	1.0	0.5	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.13	0.17	0.12	0.10	0.09	0.05	758858
Total Calcium (Ca)	mg/kg	12600	13000	5890	10000	13100	100	758858
Total Chromium (Cr)	mg/kg	51.7	57.7	32.6	68.7	35.0	1	758858
Total Cobalt (Co)	mg/kg	21.6	22.5	13.2	28.2	26.0	0.3	758858
Total Copper (Cu)	mg/kg	39.4	42.0	35.4	58.4	42.9	0.5	758858
Total Iron (Fe)	mg/kg	36600	39200	29300	57300	44900	100	758858
Total Lead (Pb)	mg/kg	7.0	16.6	9.9	9.5	6.8	0.1	758858
Total Magnesium (Mg)	mg/kg	16000	17900	10600	22800	21800	100	758858
Total Manganese (Mn)	mg/kg	583	642	542	830	630	0.2	758858
Total Mercury (Hg)	mg/kg	0.06	0.06	<0.05	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.7	0.8	0.4	0.6	0.5	0.1	758858
Total Nickel (Ni)	mg/kg	100	107	50.5	101	110	0.8	758858
Total Phosphorus (P)	mg/kg	870	873	787	943	1180	10	758858
Total Potassium (K)	mg/kg	921	925	994	4280	2260	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.13	0.14	0.11	0.22	0.11	0.05	758858
Total Sodium (Na)	mg/kg	1390	1350	1800	871	2820	100	758858
Total Strontium (Sr)	mg/kg	70.5	75.2	34.6	64.4	195	0.1	758858
Total Thallium (Tl)	mg/kg	0.07	0.12	0.06	0.31	0.07	0.05	758858
Total Tin (Sn)	mg/kg	0.4	0.5	0.4	0.8	0.5	0.1	758858
Total Titanium (Ti)	mg/kg	857	956	774	1230	1250	1	758858
Total Vanadium (V)	mg/kg	45.9	50.6	51.2	66.8	49.7	2	758858
Total Zinc (Zn)	mg/kg	65.0	73.1	55.8	97.6	72.1	1	758858
Total Zirconium (Zr)	mg/kg	19.5	21.2	8.8	25.9	16.0	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776598	776599	776600	776601	776602		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446	15448	15448	15448	15448		
	Units	**SITE 26 SA2**	**SITE 26 SA3**	**SITE 11 SA3**	**SITE 11 SA2**	**SITE 11 SA1 DUP**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	17400	20500	14300	12800	11800	100	758858
Total Antimony (Sb)	mg/kg	1.0	1.3	0.3	0.6	0.6	0.1	758858
Total Arsenic (As)	mg/kg	32.1	57.1	7.7	6.5	8.3	0.2	758858
Total Barium (Ba)	mg/kg	66.7	74.3	143	111	116	0.1	758858
Total Beryllium (Be)	mg/kg	0.3	0.4	0.4	0.3	0.3	0.1	758858
Total Bismuth (Bi)	mg/kg	0.2	0.2	<0.1	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.33	0.44	0.14	0.20	0.19	0.05	758858
Total Calcium (Ca)	mg/kg	7260	6570	30500	18100	16600	100	758858
Total Chromium (Cr)	mg/kg	55.7	63.3	59.7	47.2	53.0	1	758858
Total Cobalt (Co)	mg/kg	20.8	25.0	14.5	14.1	15.5	0.3	758858
Total Copper (Cu)	mg/kg	84.9	124	57.9	133	125	0.5	758858
Total Iron (Fe)	mg/kg	38100	42900	32800	32900	33300	100	758858
Total Lead (Pb)	mg/kg	14.5	11.8	7.3	53.1	171	0.1	758858
Total Magnesium (Mg)	mg/kg	13700	14000	16200	15000	16100	100	758858
Total Manganese (Mn)	mg/kg	771	938	696	663	639	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	0.17	0.07	0.05	758858
Total Molybdenum (Mo)	mg/kg	1.3	1.8	0.7	0.9	0.9	0.1	758858
Total Nickel (Ni)	mg/kg	39.6	42.0	56.4	50.8	67.6	0.8	758858
Total Phosphorus (P)	mg/kg	1000	1030	1290	1120	964	10	758858
Total Potassium (K)	mg/kg	1310	1000	2210	1630	1490	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	0.7	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.22	0.26	0.12	0.12	0.12	0.05	758858
Total Sodium (Na)	mg/kg	1240	755	1170	845	1070	100	758858
Total Strontium (Sr)	mg/kg	40.9	41.8	166	78.7	64.7	0.1	758858
Total Thallium (Tl)	mg/kg	0.15	0.12	0.09	0.06	0.05	0.05	758858
Total Tin (Sn)	mg/kg	0.3	0.2	0.3	0.4	0.3	0.1	758858
Total Titanium (Ti)	mg/kg	962	842	835	810	681	1	758858
Total Vanadium (V)	mg/kg	74.3	87.6	94.3	82.7	86.4	2	758858
Total Zinc (Zn)	mg/kg	100	127	64.3	91.7	73.6	1	758858
Total Zirconium (Zr)	mg/kg	4.0	5.2	6.0	4.5	3.9	0.5	758858

Please check for attached comments

Maxxam Analytics Inc
Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776608	776609		
Sampling Date		2005/04/25	2005/04/25		
COC Number		15448	15448		
	Units	**SITE 10 SA2**	**SITE 10 SA3**	**DL**	**QC Batch**
Elements					
Total Aluminum (Al)	mg/kg	9940	17200	100	758858
Total Antimony (Sb)	mg/kg	0.4	0.5	0.1	758858
Total Arsenic (As)	mg/kg	5.0	4.5	0.2	758858
Total Barium (Ba)	mg/kg	165	126	0.1	758858
Total Beryllium (Be)	mg/kg	0.3	0.3	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.43	0.20	0.05	758858
Total Calcium (Ca)	mg/kg	38800	15300	100	758858
Total Chromium (Cr)	mg/kg	41.5	34.3	1	758858
Total Cobalt (Co)	mg/kg	12.0	11.2	0.3	758858
Total Copper (Cu)	mg/kg	30.4	43.2	0.5	758858
Total Iron (Fe)	mg/kg	26600	25700	100	758858
Total Lead (Pb)	mg/kg	9.4	16.4	0.1	758858
Total Magnesium (Mg)	mg/kg	11700	8070	100	758858
Total Manganese (Mn)	mg/kg	526	527	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	1.0	0.7	0.1	758858
Total Nickel (Ni)	mg/kg	59.2	33.3	0.8	758858
Total Phosphorus (P)	mg/kg	632	720	10	758858
Total Potassium (K)	mg/kg	879	793	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.13	0.07	0.05	758858
Total Sodium (Na)	mg/kg	233	155	100	758858
Total Strontium (Sr)	mg/kg	67.7	36.0	0.1	758858
Total Thallium (Tl)	mg/kg	0.13	0.06	0.05	758858
Total Tin (Sn)	mg/kg	0.3	0.5	0.1	758858
Total Titanium (Ti)	mg/kg	548	851	1	758858
Total Vanadium (V)	mg/kg	46.8	61.1	2	758858
Total Zinc (Zn)	mg/kg	65.4	63.8	1	758858
Total Zirconium (Zr)	mg/kg	5.1	2.9	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

General Comments

Results relate only to the items tested.

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.8
P.O. #: JW2005
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA513274

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
758858 RW4	BLANK	Total Silver (Ag)	2005/04/28	<0.05		mg/kg	
		Total Sodium (Na)	2005/04/28	<100		mg/kg	
		Total Strontium (Sr)	2005/04/28	<0.1		mg/kg	
		Total Thallium (Tl)	2005/04/28	<0.05		mg/kg	
		Total Tin (Sn)	2005/04/28	<0.1		mg/kg	
		Total Titanium (Ti)	2005/04/28	<1		mg/kg	
		Total Vanadium (V)	2005/04/28	<2		mg/kg	
		Total Zinc (Zn)	2005/04/28	<1		mg/kg	
		Total Zirconium (Zr)	2005/04/28	<0.5		mg/kg	
	RPD	Total Aluminum (Al)	2005/04/28	9.5		%	35
		Total Antimony (Sb)	2005/04/28	NC		%	35
		Total Arsenic (As)	2005/04/28	11.3		%	35
		Total Barium (Ba)	2005/04/28	6.4		%	35
		Total Beryllium (Be)	2005/04/28	NC		%	35
		Total Bismuth (Bi)	2005/04/28	NC		%	35
		Total Cadmium (Cd)	2005/04/28	NC		%	35
		Total Calcium (Ca)	2005/04/28	4.9		%	35
		Total Chromium (Cr)	2005/04/28	7.8		%	35
		Total Cobalt (Co)	2005/04/28	5.4		%	35
		Total Copper (Cu)	2005/04/28	11.9		%	35
		Total Iron (Fe)	2005/04/28	1.6		%	35
		Total Lead (Pb)	2005/04/28	12.2		%	35
		Total Magnesium (Mg)	2005/04/28	8.9		%	35
		Total Manganese (Mn)	2005/04/28	4.7		%	35
		Total Mercury (Hg)	2005/04/28	NC		%	35
		Total Molybdenum (Mo)	2005/04/28	8.1		%	35
		Total Nickel (Ni)	2005/04/28	2.5		%	35
		Total Phosphorus (P)	2005/04/28	16.3		%	35
		Total Potassium (K)	2005/04/28	NC		%	35
		Total Selenium (Se)	2005/04/28	NC		%	35
		Total Silver (Ag)	2005/04/28	NC		%	35
		Total Sodium (Na)	2005/04/28	NC		%	35
		Total Strontium (Sr)	2005/04/28	1.6		%	35
		Total Thallium (Tl)	2005/04/28	NC		%	35
		Total Tin (Sn)	2005/04/28	NC		%	35
		Total Titanium (Ti)	2005/04/28	4.9		%	35
		Total Vanadium (V)	2005/04/28	5.3		%	35
		Total Zinc (Zn)	2005/04/28	4.1		%	35
		Total Zirconium (Zr)	2005/04/28	1.8		%	35
		Total Aluminum (Al)	2005/04/28	0.4		%	35
		Total Antimony (Sb)	2005/04/28	NC		%	35
		Total Arsenic (As)	2005/04/28	10.1		%	35
		Total Barium (Ba)	2005/04/28	3.1		%	35
		Total Beryllium (Be)	2005/04/28	NC		%	35
		Total Bismuth (Bi)	2005/04/28	NC		%	35
		Total Cadmium (Cd)	2005/04/28	NC		%	35
		Total Calcium (Ca)	2005/04/28	1.1		%	35
		Total Chromium (Cr)	2005/04/28	27.5		%	35
		Total Cobalt (Co)	2005/04/28	3.3		%	35
		Total Copper (Cu)	2005/04/28	5.7		%	35
		Total Iron (Fe)	2005/04/28	1.8		%	35
		Total Lead (Pb)	2005/04/28	12.6		%	35
		Total Magnesium (Mg)	2005/04/28	15.8		%	35
		Total Manganese (Mn)	2005/04/28	13.2		%	35
		Total Mercury (Hg)	2005/04/28	NC		%	35
		Total Molybdenum (Mo)	2005/04/28	NC		%	35

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
JWEL-BBY
4370 DOMINION ST. 5TH FLOOR
BURNABY, BC
Canada V5G4L7

Attention: Liliana Jerade

Report Date: 2005/04/29

Your P.O. #: JW2005
Your Project #: BCV61843.8
Your C.O.C. #: 15265, 15266, 15446, 15448

ANALYTICAL REPORT

MAXXAM JOB #: A513274
Received: 2005/04/25, 15:40

Sample Matrix: Soil
Samples Received: 42

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (soil)	42	2005/04/28	2005/04/28	ING303 Rev.3.4	Carter, SSMA 18.2.4
Elements by ICPMS (total)	42	2005/04/28	2005/04/28	ING112 Rev 1.5	Based on EPA 200.8
pH (2:1 DI Water Extract)(1)	11	2005/04/27	2005/04/27	ING416 Rev.1.2	Carter, SSMA 16.2
pH (2:1 DI Water Extract)(1)	31	2005/04/27	2005/04/28	ING416 Rev.1.2	Carter, SSMA 16.2

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride (IC)(1)	3	N/A	2005/04/28	ING303 Rev.3.4	SM - 4110B

(1) SCC/CAEAL

MAXXAM Analytics Inc.

LEE CARD

LC4/lc4
encl.

Total cover pages: 1

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		776560	776562	776563	776564	776565	776566		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15265	15265	15265	15265	15265	15265		
	Units	**SITE 25 SA1**	**SITE 25 SA2**	**SITE 25 SA3**	**SITE 25 SA3 DUP**	**SITE 27 SA1**	**SITE 27 SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.87	7.53	7.40	7.40	8.17	7.76	0.01	757631
ANIONS									
Chloride (Cl)	ug/g	<50	<50	<50	<50	84	65	50	758538

Please check for attached comments

Maxxam ID		776567	776572	776573	776574	776575	776576		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15265	15266	15266	15266	15266	15266		
	Units	**SITE 27 SA3**	**SITE 16 SA1**	**SITE 16 SA2**	**SITE 16 SA3**	**SITE 15 SA1**	**SITE 15 SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	7.87	8.86	8.91	7.81	9.65	8.92	0.01	757631
ANIONS									
Chloride (Cl)	ug/g	309	<50	<50	115	96	81	50	758538

Please check for attached comments

Maxxam ID		776577		776578	776579	776580	776581		
Sampling Date		2005/04/25		2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15266		15266	15266	15266	15266		
	Units	**SITE 15 SA3**	**QC Batch**	**SITE 17 SA1**	**SITE 17 SA2**	**SITE 17 SA3**	**SITE 18 SA1**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	9.06	757631	9.57	8.83	8.72	9.24	0.01	757537
ANIONS									
Chloride (Cl)	ug/g	86	758538	123	78	73	181	50	758538

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		776582	776583	776587	776588	776589	776590		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15266	15266	15446	15446	15446	15446		
	Units	**SITE 18 SA2**	**SITE 18 SA3**	**SITE 14 SA2**	**SITE 14 SA2 DUP**	**SITE 14 SA3**	**SITE 14 SA1**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.94	9.00	9.23	9.05	9.21	9.38	0.01	757537
ANIONS									
Chloride (Cl)	ug/g	205	239	188	134	87	350	50	758538

Please check for attached comments

Maxxam ID		776591		776592	776593	776594	776595		
Sampling Date		2005/04/25		2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446		15446	15446	15446	15446		
	Units	**SITE 13 SA3**	**QC Batch**	**SITE 13 SA2**	**SITE 13 SA1**	**SITE 12 SA3**	**SITE 12 SA1**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	8.09	757537	8.64	8.81	8.88	9.91	0.01	757863
ANIONS									
Chloride (Cl)	ug/g	<50	758538	93	54	<50	61	50	758538

Please check for attached comments

Maxxam ID		776596	776597	776598	776599	776600	776601		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446	15446	15446	15448	15448	15448		
	Units	**SITE 12 SA2**	**SITE 26 SA1**	**SITE 26 SA2**	**SITE 26 SA3**	**SITE 11 SA3**	**SITE 11 SA2**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	9.50	8.93	8.34	8.02	8.12	8.25	0.01	757863
ANIONS									
Chloride (Cl)	ug/g	<50	105	152	57	98	<50	50	758538

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		776602	776603	776604	776605	776606	776607		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15448	15448	15448	15448	15448	15448		
	Units	**SITE 11 SA1 DUP**	**SITE 11 SA1**	**SITE 9 SA1**	**SITE 9 SA3**	**SITE 9 SA2**	**SITE 10 SA1**	**DL**	**QC Batch**
Misc. Inorganics									
Soluble (2:1) pH	pH Units	9.98	9.92	6.26	6.16	6.62	9.71	0.01	757863
ANIONS									
Chloride (Cl)	ug/g	<50	<50	<50	65	56	<50	50	758538

Please check for attached comments

Maxxam ID		776608	776609		
Sampling Date		2005/04/25	2005/04/25		
COC Number		15448	15448		
	Units	**SITE 10 SA2**	**SITE 10 SA3**	**DL**	**QC Batch**
Misc. Inorganics					
Soluble (2:1) pH	pH Units	8.77	8.10	0.01	757863
ANIONS					
Chloride (Cl)	ug/g	<50	<50	50	758538

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776560	776562	776563	776564	776565		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15265	15265	15265	15265	15265		
	Units	**SITE 25 SA1**	**SITE 25 SA2**	**SITE 25 SA3**	**SITE 25 SA3 DUP**	**SITE 27 SA1**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	9740	9120	7110	8510	7100	100	758858
Total Antimony (Sb)	mg/kg	0.3	0.3	0.3	0.3	0.2	0.1	758858
Total Arsenic (As)	mg/kg	3.0	3.0	3.1	2.9	4.0	0.2	758858
Total Barium (Ba)	mg/kg	61.3	81.0	56.1	62.4	16.6	0.1	758858
Total Beryllium (Be)	mg/kg	0.2	0.2	0.2	0.2	<0.1	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	0.1	758858
Total Cadmium (Cd)	mg/kg	0.18	0.22	0.16	0.20	0.07	0.05	758858
Total Calcium (Ca)	mg/kg	6340	7200	4110	5210	44300	100	758858
Total Chromium (Cr)	mg/kg	33.0	31.4	25.5	26.7	12.6	1	758858
Total Cobalt (Co)	mg/kg	9.2	8.9	7.8	8.0	8.0	0.3	758858
Total Copper (Cu)	mg/kg	23.0	21.7	17.1	20.4	17.3	0.5	758858
Total Iron (Fe)	mg/kg	21600	21200	18900	19900	22900	100	758858
Total Lead (Pb)	mg/kg	47.1	48.5	42.6	49.7	21.1	0.1	758858
Total Magnesium (Mg)	mg/kg	6840	7230	5490	5700	6130	100	758858
Total Manganese (Mn)	mg/kg	399	399	357	351	515	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.8	0.7	0.6	0.8	0.5	0.1	758858
Total Nickel (Ni)	mg/kg	29.4	30.7	26.3	27.0	19.7	0.8	758858
Total Phosphorus (P)	mg/kg	550	520	475	579	400	10	758858
Total Potassium (K)	mg/kg	367	381	407	312	520	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.07	0.06	0.06	0.08	<0.05	0.05	758858
Total Sodium (Na)	mg/kg	280	202	280	210	170	100	758858
Total Strontium (Sr)	mg/kg	16.0	15.1	14.0	15.8	212	0.1	758858
Total Thallium (Tl)	mg/kg	<0.05	<0.05	0.05	0.11	<0.05	0.05	758858
Total Tin (Sn)	mg/kg	0.2	0.3	0.2	0.3	0.1	0.1	758858
Total Titanium (Ti)	mg/kg	755	750	564	717	65.4	1	758858
Total Vanadium (V)	mg/kg	36.4	37.5	33.2	35.2	10.1	2	758858
Total Zinc (Zn)	mg/kg	51.9	56.7	47.2	52.6	45.1	1	758858
Total Zirconium (Zr)	mg/kg	5.1	4.5	4.1	4.6	0.9	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776566	776567	776572	776573	776574		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15265	15265	15266	15266	15266		
	Units	**SITE 27 SA2**	**SITE 27 SA3**	**SITE 16 SA1**	**SITE 16 SA2**	**SITE 16 SA3**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	8620	28700	5650	5350	7410	100	758858
Total Antimony (Sb)	mg/kg	0.3	0.8	0.7	0.8	0.7	0.1	758858
Total Arsenic (As)	mg/kg	9.2	10.6	4.0	5.1	4.4	0.2	758858
Total Barium (Ba)	mg/kg	22.7	211	52.2	63.0	76.2	0.1	758858
Total Beryllium (Be)	mg/kg	0.1	1.0	0.2	0.2	0.2	0.1	758858
Total Bismuth (Bi)	mg/kg	0.2	0.3	<0.1	0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.14	0.29	0.40	0.45	0.40	0.05	758858
Total Calcium (Ca)	mg/kg	24000	8830	3530	5340	4050	100	758858
Total Chromium (Cr)	mg/kg	14.9	55.5	18.4	21.1	29.9	1	758858
Total Cobalt (Co)	mg/kg	9.8	26.7	8.6	9.3	10.6	0.3	758858
Total Copper (Cu)	mg/kg	20.3	57.8	44.3	60.8	55.8	0.5	758858
Total Iron (Fe)	mg/kg	29600	52900	18800	20500	28800	100	758858
Total Lead (Pb)	mg/kg	27.0	24.0	34.6	58.2	46.8	0.1	758858
Total Magnesium (Mg)	mg/kg	5200	12000	4980	5430	5550	100	758858
Total Manganese (Mn)	mg/kg	702	1010	448	437	540	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	0.07	<0.05	0.06	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.6	0.8	1.5	2.2	2.3	0.1	758858
Total Nickel (Ni)	mg/kg	25.5	67.3	29.1	31.6	35.8	0.8	758858
Total Phosphorus (P)	mg/kg	360	558	478	475	573	10	758858
Total Potassium (K)	mg/kg	541	2750	524	560	844	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.08	0.08	0.08	0.15	0.11	0.05	758858
Total Sodium (Na)	mg/kg	155	1020	456	343	475	100	758858
Total Strontium (Sr)	mg/kg	110	48.3	19.7	24.5	23.0	0.1	758858
Total Thallium (Tl)	mg/kg	<0.05	0.22	0.10	0.09	0.09	0.05	758858
Total Tin (Sn)	mg/kg	0.1	0.6	0.2	0.3	21.3	0.1	758858
Total Titanium (Ti)	mg/kg	62.5	653	400	388	570	1	758858
Total Vanadium (V)	mg/kg	10	59.8	29.0	28.8	33.9	2	758858
Total Zinc (Zn)	mg/kg	60.0	132	77.7	86.5	84.4	1	758858
Total Zirconium (Zr)	mg/kg	1.1	12.7	3.1	3.3	4.0	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776575	776576	776577	776578	776579		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15266	15266	15266	15266	15266		
	Units	**SITE 15 SA1**	**SITE 15 SA2**	**SITE 15 SA3**	**SITE 17 SA1**	**SITE 17 SA2**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	8460	8360	7800	8520	8150	100	758858
Total Antimony (Sb)	mg/kg	0.3	0.2	0.2	0.9	1.0	0.1	758858
Total Arsenic (As)	mg/kg	3.3	3.4	3.4	7.5	7.6	0.2	758858
Total Barium (Ba)	mg/kg	108	98.9	95.2	75.5	84.3	0.1	758858
Total Beryllium (Be)	mg/kg	0.3	0.3	0.3	0.3	0.2	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.18	0.20	0.18	0.67	0.58	0.05	758858
Total Calcium (Ca)	mg/kg	14500	16100	16900	18800	13600	100	758858
Total Chromium (Cr)	mg/kg	36.8	28.3	29.0	30.4	28.9	1	758858
Total Cobalt (Co)	mg/kg	14.4	16.0	13.4	9.7	10.1	0.3	758858
Total Copper (Cu)	mg/kg	29.5	28.2	28.0	36.5	37.0	0.5	758858
Total Iron (Fe)	mg/kg	28500	29600	26900	24200	24600	100	758858
Total Lead (Pb)	mg/kg	16.7	3.8	7.9	11.9	12.4	0.1	758858
Total Magnesium (Mg)	mg/kg	13000	12800	11100	8610	7540	100	758858
Total Manganese (Mn)	mg/kg	572	593	729	801	515	0.2	758858
Total Mercury (Hg)	mg/kg	0.05	<0.05	0.05	0.07	0.06	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.7	0.6	0.7	1.5	1.8	0.1	758858
Total Nickel (Ni)	mg/kg	66.6	65.7	54.7	34.6	33.4	0.8	758858
Total Phosphorus (P)	mg/kg	764	733	722	873	676	10	758858
Total Potassium (K)	mg/kg	769	613	620	657	722	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	0.6	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.09	0.08	0.08	0.12	0.13	0.05	758858
Total Sodium (Na)	mg/kg	615	371	356	743	298	100	758858
Total Strontium (Sr)	mg/kg	64.9	72.5	60.8	86.0	59.2	0.1	758858
Total Thallium (Tl)	mg/kg	0.08	0.09	0.11	0.21	0.14	0.05	758858
Total Tin (Sn)	mg/kg	0.5	0.3	0.2	0.2	0.2	0.1	758858
Total Titanium (Ti)	mg/kg	577	534	519	493	525	1	758858
Total Vanadium (V)	mg/kg	43.3	40.5	40.8	47.7	48.1	2	758858
Total Zinc (Zn)	mg/kg	63.1	60.6	57.7	89.2	91.0	1	758858
Total Zirconium (Zr)	mg/kg	6.2	5.4	5.8	4.4	4.1	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776580	776581	776582	776583	776587		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15266	15266	15266	15266	15446		
	Units	**SITE 17 SA3**	**SITE 18 SA1**	**SITE 18 SA2**	**SITE 18 SA3**	**SITE 14 SA2**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	9080	9020	8720	10300	11600	100	758858
Total Antimony (Sb)	mg/kg	1.2	0.4	0.5	0.6	0.2	0.1	758858
Total Arsenic (As)	mg/kg	8.4	3.3	4.6	5.6	2.3	0.2	758858
Total Barium (Ba)	mg/kg	63.7	60.6	57.9	60.3	84.5	0.1	758858
Total Beryllium (Be)	mg/kg	0.2	0.2	0.2	0.2	0.5	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.73	0.25	0.30	0.27	0.12	0.05	758858
Total Calcium (Ca)	mg/kg	17300	4280	4760	7340	13600	100	758858
Total Chromium (Cr)	mg/kg	31.0	27.2	28.8	27.6	57.1	1	758858
Total Cobalt (Co)	mg/kg	11.0	8.8	8.8	9.3	21.5	0.3	758858
Total Copper (Cu)	mg/kg	41.1	25.1	27.1	28.7	35.7	0.5	758858
Total Iron (Fe)	mg/kg	25200	21000	21100	23600	34200	100	758858
Total Lead (Pb)	mg/kg	16.0	21.0	17.4	15.2	10.2	0.1	758858
Total Magnesium (Mg)	mg/kg	8380	6410	6110	6470	17300	100	758858
Total Manganese (Mn)	mg/kg	515	465	432	455	574	0.2	758858
Total Mercury (Hg)	mg/kg	0.07	<0.05	<0.05	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	1.7	0.8	0.8	0.9	0.6	0.1	758858
Total Nickel (Ni)	mg/kg	35.1	26.9	28.0	27.1	117	0.8	758858
Total Phosphorus (P)	mg/kg	692	757	594	901	747	10	758858
Total Potassium (K)	mg/kg	632	711	780	630	881	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.14	0.08	0.11	0.09	0.12	0.05	758858
Total Sodium (Na)	mg/kg	330	614	656	547	1310	100	758858
Total Strontium (Sr)	mg/kg	73.1	16.8	16.6	30.9	65.0	0.1	758858
Total Thallium (Tl)	mg/kg	0.15	0.05	<0.05	0.07	0.06	0.05	758858
Total Tin (Sn)	mg/kg	0.3	0.2	0.2	0.2	0.4	0.1	758858
Total Titanium (Ti)	mg/kg	479	586	545	471	728	1	758858
Total Vanadium (V)	mg/kg	48.2	36.4	35.2	35.7	41.2	2	758858
Total Zinc (Zn)	mg/kg	113	62.8	66.8	60.3	59.3	1	758858
Total Zirconium (Zr)	mg/kg	3.4	3.0	3.6	2.5	17.6	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776588	776589	776590	776591	776592		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446	15446	15446	15446	15446		
	Units	**SITE 14 SA2 DUP**	**SITE 14 SA3**	**SITE 14 SA1**	**SITE 13 SA3**	**SITE 13 SA2**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	13100	13200	12300	33500	21200	100	758858
Total Antimony (Sb)	mg/kg	0.2	0.2	0.2	0.2	<0.1	0.1	758858
Total Arsenic (As)	mg/kg	2.6	2.4	2.0	2.3	0.9	0.2	758858
Total Barium (Ba)	mg/kg	97.8	102	63.1	127	80.2	0.1	758858
Total Beryllium (Be)	mg/kg	0.4	0.4	0.3	1.0	0.5	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.13	0.17	0.12	0.10	0.09	0.05	758858
Total Calcium (Ca)	mg/kg	12600	13000	5890	10000	13100	100	758858
Total Chromium (Cr)	mg/kg	51.7	57.7	32.6	68.7	35.0	1	758858
Total Cobalt (Co)	mg/kg	21.6	22.5	13.2	28.2	26.0	0.3	758858
Total Copper (Cu)	mg/kg	39.4	42.0	35.4	58.4	42.9	0.5	758858
Total Iron (Fe)	mg/kg	36600	39200	29300	57300	44900	100	758858
Total Lead (Pb)	mg/kg	7.0	16.6	9.9	9.5	6.8	0.1	758858
Total Magnesium (Mg)	mg/kg	16000	17900	10600	22800	21800	100	758858
Total Manganese (Mn)	mg/kg	583	642	542	830	630	0.2	758858
Total Mercury (Hg)	mg/kg	0.06	0.06	<0.05	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.7	0.8	0.4	0.6	0.5	0.1	758858
Total Nickel (Ni)	mg/kg	100	107	50.5	101	110	0.8	758858
Total Phosphorus (P)	mg/kg	870	873	787	943	1180	10	758858
Total Potassium (K)	mg/kg	921	925	994	4280	2260	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.13	0.14	0.11	0.22	0.11	0.05	758858
Total Sodium (Na)	mg/kg	1390	1350	1800	871	2820	100	758858
Total Strontium (Sr)	mg/kg	70.5	75.2	34.6	64.4	195	0.1	758858
Total Thallium (Tl)	mg/kg	0.07	0.12	0.06	0.31	0.07	0.05	758858
Total Tin (Sn)	mg/kg	0.4	0.5	0.4	0.8	0.5	0.1	758858
Total Titanium (Ti)	mg/kg	857	956	774	1230	1250	1	758858
Total Vanadium (V)	mg/kg	45.9	50.6	51.2	66.8	49.7	2	758858
Total Zinc (Zn)	mg/kg	65.0	73.1	55.8	97.6	72.1	1	758858
Total Zirconium (Zr)	mg/kg	19.5	21.2	8.8	25.9	16.0	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776593	776594	776595	776596	776597		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446	15446	15446	15446	15446		
	Units	**SITE 13 SA1**	**SITE 12 SA3**	**SITE 12 SA1**	**SITE 12 SA2**	**SITE 26 SA1**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	14700	9870	9940	9370	15000	100	758858
Total Antimony (Sb)	mg/kg	0.1	0.4	0.4	0.4	0.9	0.1	758858
Total Arsenic (As)	mg/kg	1.7	5.7	6.8	6.2	18.9	0.2	758858
Total Barium (Ba)	mg/kg	62.8	56.5	48.4	67.7	69.6	0.1	758858
Total Beryllium (Be)	mg/kg	0.4	0.2	0.2	0.2	0.3	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	0.2	<0.1	0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.13	0.36	0.41	0.36	0.35	0.05	758858
Total Calcium (Ca)	mg/kg	10000	20900	9400	13500	8430	100	758858
Total Chromium (Cr)	mg/kg	32.3	27.0	28.1	26.7	45.4	1	758858
Total Cobalt (Co)	mg/kg	18.7	9.9	10.5	10.5	18.2	0.3	758858
Total Copper (Cu)	mg/kg	35.4	40.5	37.3	40.8	67.1	0.5	758858
Total Iron (Fe)	mg/kg	37900	25700	27400	26700	34000	100	758858
Total Lead (Pb)	mg/kg	10.1	20.9	38.8	23.2	16.7	0.1	758858
Total Magnesium (Mg)	mg/kg	14600	8470	8680	8960	13200	100	758858
Total Manganese (Mn)	mg/kg	616	447	424	514	656	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	0.5	1.4	1.2	1.4	1.2	0.1	758858
Total Nickel (Ni)	mg/kg	61.1	24.1	25.4	26.2	39.9	0.8	758858
Total Phosphorus (P)	mg/kg	1220	759	718	726	1000	10	758858
Total Potassium (K)	mg/kg	1110	1630	1530	1480	1730	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	0.6	0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.10	0.17	0.21	0.19	0.22	0.05	758858
Total Sodium (Na)	mg/kg	1690	254	519	382	1370	100	758858
Total Strontium (Sr)	mg/kg	79.6	55.8	32.4	41.8	43.1	0.1	758858
Total Thallium (Tl)	mg/kg	0.06	0.08	0.08	0.08	0.12	0.05	758858
Total Tin (Sn)	mg/kg	0.4	0.2	0.2	0.2	0.3	0.1	758858
Total Titanium (Ti)	mg/kg	1130	624	576	566	1000	1	758858
Total Vanadium (V)	mg/kg	58.5	41.3	39.4	40.1	67.7	2	758858
Total Zinc (Zn)	mg/kg	66.0	65.5	76.8	71.8	83.7	1	758858
Total Zirconium (Zr)	mg/kg	12.7	3.7	3.1	3.3	5.7	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776598	776599	776600	776601	776602		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15446	15448	15448	15448	15448		
	Units	**SITE 26 SA2**	**SITE 26 SA3**	**SITE 11 SA3**	**SITE 11 SA2**	**SITE 11 SA1 DUP**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	17400	20500	14300	12800	11800	100	758858
Total Antimony (Sb)	mg/kg	1.0	1.3	0.3	0.6	0.6	0.1	758858
Total Arsenic (As)	mg/kg	32.1	57.1	7.7	6.5	8.3	0.2	758858
Total Barium (Ba)	mg/kg	66.7	74.3	143	111	116	0.1	758858
Total Beryllium (Be)	mg/kg	0.3	0.4	0.4	0.3	0.3	0.1	758858
Total Bismuth (Bi)	mg/kg	0.2	0.2	<0.1	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.33	0.44	0.14	0.20	0.19	0.05	758858
Total Calcium (Ca)	mg/kg	7260	6570	30500	18100	16600	100	758858
Total Chromium (Cr)	mg/kg	55.7	63.3	59.7	47.2	53.0	1	758858
Total Cobalt (Co)	mg/kg	20.8	25.0	14.5	14.1	15.5	0.3	758858
Total Copper (Cu)	mg/kg	84.9	124	57.9	133	125	0.5	758858
Total Iron (Fe)	mg/kg	38100	42900	32800	32900	33300	100	758858
Total Lead (Pb)	mg/kg	14.5	11.8	7.3	53.1	171	0.1	758858
Total Magnesium (Mg)	mg/kg	13700	14000	16200	15000	16100	100	758858
Total Manganese (Mn)	mg/kg	771	938	696	663	639	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	0.17	0.07	0.05	758858
Total Molybdenum (Mo)	mg/kg	1.3	1.8	0.7	0.9	0.9	0.1	758858
Total Nickel (Ni)	mg/kg	39.6	42.0	56.4	50.8	67.6	0.8	758858
Total Phosphorus (P)	mg/kg	1000	1030	1290	1120	964	10	758858
Total Potassium (K)	mg/kg	1310	1000	2210	1630	1490	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	0.7	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.22	0.26	0.12	0.12	0.12	0.05	758858
Total Sodium (Na)	mg/kg	1240	755	1170	845	1070	100	758858
Total Strontium (Sr)	mg/kg	40.9	41.8	166	78.7	64.7	0.1	758858
Total Thallium (Tl)	mg/kg	0.15	0.12	0.09	0.06	0.05	0.05	758858
Total Tin (Sn)	mg/kg	0.3	0.2	0.3	0.4	0.3	0.1	758858
Total Titanium (Ti)	mg/kg	962	842	835	810	681	1	758858
Total Vanadium (V)	mg/kg	74.3	87.6	94.3	82.7	86.4	2	758858
Total Zinc (Zn)	mg/kg	100	127	64.3	91.7	73.6	1	758858
Total Zirconium (Zr)	mg/kg	4.0	5.2	6.0	4.5	3.9	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776603	776604	776605	776606	776607		
Sampling Date		2005/04/25	2005/04/25	2005/04/25	2005/04/25	2005/04/25		
COC Number		15448	15448	15448	15448	15448		
	Units	**SITE 11 SA1**	**SITE 9 SA1**	**SITE 9 SA3**	**SITE 9 SA2**	**SITE 10 SA1**	**DL**	**QC Batch**
Elements								
Total Aluminum (Al)	mg/kg	11200	3670	13100	13900	10500	100	758858
Total Antimony (Sb)	mg/kg	0.5	<0.1	<0.1	<0.1	0.5	0.1	758858
Total Arsenic (As)	mg/kg	6.9	0.7	4.2	3.7	4.8	0.2	758858
Total Barium (Ba)	mg/kg	97.6	29.8	117	124	120	0.1	758858
Total Beryllium (Be)	mg/kg	0.2	<0.1	<0.1	0.1	0.3	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.26	<0.05	0.06	0.06	0.41	0.05	758858
Total Calcium (Ca)	mg/kg	15100	1170	2430	2710	42900	100	758858
Total Chromium (Cr)	mg/kg	47.3	10.1	28.6	29.8	62.1	1	758858
Total Cobalt (Co)	mg/kg	14.6	2.5	9.9	9.9	13.7	0.3	758858
Total Copper (Cu)	mg/kg	120	8.9	41.8	40.1	36.5	0.5	758858
Total Iron (Fe)	mg/kg	31200	7460	21300	22000	26500	100	758858
Total Lead (Pb)	mg/kg	119	1.5	4.2	4.8	22.9	0.1	758858
Total Magnesium (Mg)	mg/kg	14000	1950	8090	8030	16800	100	758858
Total Manganese (Mn)	mg/kg	618	93.5	277	258	517	0.2	758858
Total Mercury (Hg)	mg/kg	0.09	<0.05	<0.05	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	1.0	<0.1	0.8	1.0	1.2	0.1	758858
Total Nickel (Ni)	mg/kg	58.6	4.1	16.4	16.1	88.9	0.8	758858
Total Phosphorus (P)	mg/kg	1000	280	691	510	692	10	758858
Total Potassium (K)	mg/kg	1540	728	1970	1910	874	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.12	<0.05	0.07	0.08	0.13	0.05	758858
Total Sodium (Na)	mg/kg	1070	195	545	658	525	100	758858
Total Strontium (Sr)	mg/kg	58.0	8.0	20.2	22.4	79.4	0.1	758858
Total Thallium (Tl)	mg/kg	0.06	<0.05	0.11	0.12	0.08	0.05	758858
Total Tin (Sn)	mg/kg	0.3	<0.1	0.2	0.2	0.3	0.1	758858
Total Titanium (Ti)	mg/kg	646	240	1000	1080	490	1	758858
Total Vanadium (V)	mg/kg	86.3	16.4	49.5	50.0	42.4	2	758858
Total Zinc (Zn)	mg/kg	84.6	16.6	56.1	59.9	73.5	1	758858
Total Zirconium (Zr)	mg/kg	3.9	<0.5	0.5	0.6	4.5	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		776608	776609		
Sampling Date		2005/04/25	2005/04/25		
COC Number		15448	15448		
	Units	**SITE 10 SA2**	**SITE 10 SA3**	**DL**	**QC Batch**
Elements					
Total Aluminum (Al)	mg/kg	9940	17200	100	758858
Total Antimony (Sb)	mg/kg	0.4	0.5	0.1	758858
Total Arsenic (As)	mg/kg	5.0	4.5	0.2	758858
Total Barium (Ba)	mg/kg	165	126	0.1	758858
Total Beryllium (Be)	mg/kg	0.3	0.3	0.1	758858
Total Bismuth (Bi)	mg/kg	<0.1	<0.1	0.1	758858
Total Cadmium (Cd)	mg/kg	0.43	0.20	0.05	758858
Total Calcium (Ca)	mg/kg	38800	15300	100	758858
Total Chromium (Cr)	mg/kg	41.5	34.3	1	758858
Total Cobalt (Co)	mg/kg	12.0	11.2	0.3	758858
Total Copper (Cu)	mg/kg	30.4	43.2	0.5	758858
Total Iron (Fe)	mg/kg	26600	25700	100	758858
Total Lead (Pb)	mg/kg	9.4	16.4	0.1	758858
Total Magnesium (Mg)	mg/kg	11700	8070	100	758858
Total Manganese (Mn)	mg/kg	526	527	0.2	758858
Total Mercury (Hg)	mg/kg	<0.05	<0.05	0.05	758858
Total Molybdenum (Mo)	mg/kg	1.0	0.7	0.1	758858
Total Nickel (Ni)	mg/kg	59.2	33.3	0.8	758858
Total Phosphorus (P)	mg/kg	632	720	10	758858
Total Potassium (K)	mg/kg	879	793	100	758858
Total Selenium (Se)	mg/kg	<0.5	<0.5	0.5	758858
Total Silver (Ag)	mg/kg	0.13	0.07	0.05	758858
Total Sodium (Na)	mg/kg	233	155	100	758858
Total Strontium (Sr)	mg/kg	67.7	36.0	0.1	758858
Total Thallium (Tl)	mg/kg	0.13	0.06	0.05	758858
Total Tin (Sn)	mg/kg	0.3	0.5	0.1	758858
Total Titanium (Ti)	mg/kg	548	851	1	758858
Total Vanadium (V)	mg/kg	46.8	61.1	2	758858
Total Zinc (Zn)	mg/kg	65.4	63.8	1	758858
Total Zirconium (Zr)	mg/kg	5.1	2.9	0.5	758858

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		776568	776570	776571		
Sampling Date		2005/04/25	2005/04/25	2005/04/25		
COC Number		15265	15265	15265		
	Units	**SITE 9**	**SITE 18**	**SITE 26**	**DL**	**QC Batch**
Anions						
Dissolved Chloride (Cl)	mg/L	<0.5	366	77.8	0.5	758529

Please check for attached comments

Maxxam Analytics Inc

Maxxam Job #: A513274
Report Date: 2005/04/29

JACQUES WHITFORD ENVIRONMENT LTD.
Client Project #: BCV61843.8
Site Reference:
Your P.O. #: JW2005
Sampler Initials: LJ

General Comments

Results relate only to the items tested.

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.8
P.O. #: JW2005
Site Reference:

Quality Assurance Report

Maxxam Job Number: VA513274

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
757537	MM3	SPIKE	Soluble (2:1) pH	2005/04/27		100	%	96 - 104
		RPD	Soluble (2:1) pH	2005/04/27	1.1		%	20
757631	MM3	SPIKE	Soluble (2:1) pH	2005/04/28		100	%	96 - 104
		RPD	Soluble (2:1) pH	2005/04/28	0.4		%	20
757863	MM3	SPIKE	Soluble (2:1) pH	2005/04/28		101	%	96 - 104
		RPD	Soluble (2:1) pH	2005/04/28	2.7		%	20
758529	TG1	SPIKE	Dissolved Chloride (Cl)	2005/04/28		104	%	80 - 120
		BLANK	Dissolved Chloride (Cl)	2005/04/28	<0.5		mg/L	
758538	TG1	MATRIX SPIKE	Chloride (Cl)	2005/04/28		101	%	80 - 120
		BLANK	Chloride (Cl)	2005/04/28	<50		ug/g	
		RPD	Chloride (Cl)	2005/04/28	NC		%	35
			Chloride (Cl)	2005/04/28	NC		%	35
			Chloride (Cl)	2005/04/28	NC		%	35
			Chloride (Cl)	2005/04/28	NC		%	35
			Chloride (Cl)	2005/04/28	NC		%	35
758858	RW4	MATRIX SPIKE	Total Arsenic (As)	2005/04/28		108	%	75 - 125
			Total Cadmium (Cd)	2005/04/28		108	%	75 - 125
			Total Chromium (Cr)	2005/04/28		109	%	75 - 125
			Total Cobalt (Co)	2005/04/28		109	%	75 - 125
			Total Copper (Cu)	2005/04/28		109	%	75 - 125
			Total Lead (Pb)	2005/04/28		109	%	75 - 125
			Total Mercury (Hg)	2005/04/28		108	%	75 - 125
			Total Selenium (Se)	2005/04/28		102	%	75 - 125
			Total Thallium (Tl)	2005/04/28		107	%	75 - 125
			Total Zinc (Zn)	2005/04/28		111	%	75 - 125
		SPIKE	Total Arsenic (As)	2005/04/28		113	%	75 - 125
			Total Cadmium (Cd)	2005/04/28		106	%	75 - 125
			Total Chromium (Cr)	2005/04/28		103	%	75 - 125
			Total Cobalt (Co)	2005/04/28		107	%	75 - 125
			Total Copper (Cu)	2005/04/28		111	%	75 - 125
			Total Lead (Pb)	2005/04/28		109	%	75 - 125
			Total Mercury (Hg)	2005/04/28		108	%	75 - 125
			Total Selenium (Se)	2005/04/28		110	%	75 - 125
			Total Thallium (Tl)	2005/04/28		105	%	75 - 125
			Total Zinc (Zn)	2005/04/28		113	%	75 - 125
		BLANK	Total Aluminum (Al)	2005/04/28	<100		mg/kg	
			Total Antimony (Sb)	2005/04/28	<0.1		mg/kg	
			Total Arsenic (As)	2005/04/28	<0.2		mg/kg	
			Total Barium (Ba)	2005/04/28	<0.1		mg/kg	
			Total Beryllium (Be)	2005/04/28	<0.1		mg/kg	
			Total Bismuth (Bi)	2005/04/28	<0.1		mg/kg	
			Total Cadmium (Cd)	2005/04/28	<0.05		mg/kg	
			Total Calcium (Ca)	2005/04/28	<100		mg/kg	
			Total Chromium (Cr)	2005/04/28	<1		mg/kg	
			Total Cobalt (Co)	2005/04/28	<0.3		mg/kg	
			Total Copper (Cu)	2005/04/28	<0.5		mg/kg	
			Total Iron (Fe)	2005/04/28	<100		mg/kg	
			Total Lead (Pb)	2005/04/28	<0.1		mg/kg	
			Total Magnesium (Mg)	2005/04/28	<100		mg/kg	
			Total Manganese (Mn)	2005/04/28	<0.2		mg/kg	
			Total Mercury (Hg)	2005/04/28	<0.05		mg/kg	
			Total Molybdenum (Mo)	2005/04/28	<0.1		mg/kg	
			Total Nickel (Ni)	2005/04/28	<0.8		mg/kg	
			Total Phosphorus (P)	2005/04/28	<10		mg/kg	
			Total Potassium (K)	2005/04/28	<100		mg/kg	
			Total Selenium (Se)	2005/04/28	<0.5		mg/kg	

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.8
P.O. #: JW2005
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA513274

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
758858 RW4	BLANK	Total Silver (Ag)	2005/04/28	<0.05		mg/kg	
		Total Sodium (Na)	2005/04/28	<100		mg/kg	
		Total Strontium (Sr)	2005/04/28	<0.1		mg/kg	
		Total Thallium (Tl)	2005/04/28	<0.05		mg/kg	
		Total Tin (Sn)	2005/04/28	<0.1		mg/kg	
		Total Titanium (Ti)	2005/04/28	<1		mg/kg	
		Total Vanadium (V)	2005/04/28	<2		mg/kg	
		Total Zinc (Zn)	2005/04/28	<1		mg/kg	
		Total Zirconium (Zr)	2005/04/28	<0.5		mg/kg	
	RPD	Total Aluminum (Al)	2005/04/28	9.5		%	35
		Total Antimony (Sb)	2005/04/28	NC		%	35
		Total Arsenic (As)	2005/04/28	11.3		%	35
		Total Barium (Ba)	2005/04/28	6.4		%	35
		Total Beryllium (Be)	2005/04/28	NC		%	35
		Total Bismuth (Bi)	2005/04/28	NC		%	35
		Total Cadmium (Cd)	2005/04/28	NC		%	35
		Total Calcium (Ca)	2005/04/28	4.9		%	35
		Total Chromium (Cr)	2005/04/28	7.8		%	35
		Total Cobalt (Co)	2005/04/28	5.4		%	35
		Total Copper (Cu)	2005/04/28	11.9		%	35
		Total Iron (Fe)	2005/04/28	1.6		%	35
		Total Lead (Pb)	2005/04/28	12.2		%	35
		Total Magnesium (Mg)	2005/04/28	8.9		%	35
		Total Manganese (Mn)	2005/04/28	4.7		%	35
		Total Mercury (Hg)	2005/04/28	NC		%	35
		Total Molybdenum (Mo)	2005/04/28	8.1		%	35
		Total Nickel (Ni)	2005/04/28	2.5		%	35
		Total Phosphorus (P)	2005/04/28	16.3		%	35
		Total Potassium (K)	2005/04/28	NC		%	35
		Total Selenium (Se)	2005/04/28	NC		%	35
		Total Silver (Ag)	2005/04/28	NC		%	35
		Total Sodium (Na)	2005/04/28	NC		%	35
		Total Strontium (Sr)	2005/04/28	1.6		%	35
		Total Thallium (Tl)	2005/04/28	NC		%	35
		Total Tin (Sn)	2005/04/28	NC		%	35
		Total Titanium (Ti)	2005/04/28	4.9		%	35
		Total Vanadium (V)	2005/04/28	5.3		%	35
		Total Zinc (Zn)	2005/04/28	4.1		%	35
		Total Zirconium (Zr)	2005/04/28	1.8		%	35
		Total Aluminum (Al)	2005/04/28	0.4		%	35
		Total Antimony (Sb)	2005/04/28	NC		%	35
		Total Arsenic (As)	2005/04/28	10.1		%	35
		Total Barium (Ba)	2005/04/28	3.1		%	35
		Total Beryllium (Be)	2005/04/28	NC		%	35
		Total Bismuth (Bi)	2005/04/28	NC		%	35
		Total Cadmium (Cd)	2005/04/28	NC		%	35
		Total Calcium (Ca)	2005/04/28	1.1		%	35
		Total Chromium (Cr)	2005/04/28	27.5		%	35
		Total Cobalt (Co)	2005/04/28	3.3		%	35
		Total Copper (Cu)	2005/04/28	5.7		%	35
		Total Iron (Fe)	2005/04/28	1.8		%	35
		Total Lead (Pb)	2005/04/28	12.6		%	35
		Total Magnesium (Mg)	2005/04/28	15.8		%	35
		Total Manganese (Mn)	2005/04/28	13.2		%	35
		Total Mercury (Hg)	2005/04/28	NC		%	35
		Total Molybdenum (Mo)	2005/04/28	NC		%	35

Maxxam Analytics Inc

JACQUES WHITFORD ENVIRONMENT LTD.
Attention: Liliana Jerade
Client Project #: BCV61843.8
P.O. #: JW2005
Site Reference:

Quality Assurance Report (Continued)

Maxxam Job Number: VA513274

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
758858 RW4	RPD	Total Nickel (Ni)	2005/04/28	19.7		%	35
		Total Phosphorus (P)	2005/04/28	6.9		%	35
		Total Potassium (K)	2005/04/28	3.3		%	35
		Total Selenium (Se)	2005/04/28	NC		%	35
		Total Silver (Ag)	2005/04/28	NC		%	35
		Total Sodium (Na)	2005/04/28	7.6		%	35
		Total Strontium (Sr)	2005/04/28	3.1		%	35
		Total Thallium (Tl)	2005/04/28	NC		%	35
		Total Tin (Sn)	2005/04/28	NC		%	35
		Total Titanium (Ti)	2005/04/28	1		%	35
		Total Vanadium (V)	2005/04/28	2.2		%	35
		Total Zinc (Zn)	2005/04/28	2.9		%	35
		Total Zirconium (Zr)	2005/04/28	0.1		%	35

NC = Non-calculable
RPD = Relative Percent Difference

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JACQUES WHITFORD Date: 26 Apr. 2007 Initial: CW C of C #: 15265

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER: ____	PRESERVATIVE CHECK
1	1																							
2	1																							
3	2																							
4	1																							
5	1																							
6	1																							
7						1																		
8						1																		
9						1																		
10																								
11																								
12																								

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

- Poured off anions

Comments: _____

	Temperature			Average
Cooler #1				
Cooler #2		3		
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com
Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE ____ OF ____

513274

ANALYSIS REQUEST

F 15265

page 341 of 462 TRA-2017-70442

COMPANY NAME: Jacques Whitford	PH. #: 604 436 3014 E-mail: FAX #: 604 436 3752
COMPANY ADDRESS: 4370 Dominion St 5th Floor Burnaby BC V5G 4L7	CLIENT PROJECT ID: (#) BCV618488
SAMPLER NAME (PRINT): Liliana Jerade.	PROJECT MANAGER: Liliana Jerade.

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	chloride	metals
1	Site 25 SA1	76560			x		1	25/04/05			x	x
2	" SA2	62			x		1					
3	" SA3	63			x		1					
4	" SA3 dup	64			x		1					
5	Site 27 SA1	65			x		1					
6	" SA2	66			x		1					
7	" SA3	67			x		1					
8	Site 9	68		x			1					
9	Site 18	70		x			1					
10	Site 06	71		x			1					
11												
12												

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

STANDARD	5 BUSINESS DAYS	☐
RUSH	3 BUSINESS DAYS	☐
RUSH	2 BUSINESS DAYS	☐
URGENT	1 BUSINESS DAY	☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2003

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR

☐ CCME
☐ CSR
☐ ALBERTA TIER 1
☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C: JS

DUE DATE: apr 29/05 pm

LOG IN CHECK:

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 25/04/05	TIME: Any	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY 25/04/05	TIME: 1510	RECEIVED BY LABORATORY:

COCFORM - BC - 01/05

ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JACQUES WHITFORD Date: 26 Apr. 2005 Initial: CV C of C #: 15266

Sample No.	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	–																							
2	–																							
3	\																							
4	–																							
5	–																							
6	–																							
7	\																							
8	~																							
9	\																							
10	<																							
11	~																							
12																								

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

- Poured off anions

Comments: _____

	Temperature			Average
Cooler #1				
Cooler #2		3	3	
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

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8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com
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Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE ____ OF ____

ANALYSIS REQUEST F 15266

COMPANY NAME: Jacques Whitford	PH. #: 604 436 3014 E-mail: FAX #: 604 436 3752
COMPANY ADDRESS: 4370 Dominion St 5th floor Burnaby BC V5G 4L7	CLIENT PROJECT ID: (#) BCN 61943-8.
SAMPLER NAME (PRINT): Liliana Jerade.	PROJECT MANAGER: Liliana Jerade.

	FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	SURFACE WATER	SOIL	OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	TIME	HEADSPACE VAPOUR	chloride	metals
1	Site 16 SA1	776572			x		1	25/04/05			X	X
2	" SA2	73			x		1					
3	" SA3	74			x		1					
4	Site 15 SA1	75			x		1					
5	" SA2	76			x		1					
6	" SA3	77			x		1					
7	Site 17 SA1	78			x		1					
8	" SA2	79			x		1					
9	" SA3	80			x		1					
10	Site 18 SA1	81			x		1					
11	" SA2	82			x		1					
12	" SA3	83			x		1					

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

- STANDARD 5 BUSINESS DAYS ☐
- RUSH 3 BUSINESS DAYS ☐
- RUSH 2 BUSINESS DAYS ☐
- URGENT 1 BUSINESS DAY ☐

OTHER BUSINESS DAYS _____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE:

- ☐ CCME
- ☑ CSR
- ☐ ALBERTA TIER 1
- ☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C:	DUE DATE:	LOG IN CHECK:
JS	cupr 29/05 MF	

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 25/04/05	TIME: AM	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE: DD/MM/YY 25/04/05	TIME: 1540	RECEIVED BY LABORATORY: MF

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JACQUES WHITFORD Date: 26 Apr 2005 Initial: CV C of C #: 15446

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																						
2	1																						
3	1																						
4	1																						
5	1																						
6	1																						
7	1																						
8	1																						
9	1																						
10	1																						
11	1																						
12	1																						

Item #

1. ☐ Custody Seal not Intact
2. ☐ Temp > 10 degrees C
3. ☐ Broken Bottle in Transit
4. ☐ No C of C
5. ☐ C of C information Incomplete
6. ☐ C of C not signed/dated by consultant
7. ☐ Non-current C of C
8. ☐ Bottles listed on C of C, but not in shipment
9. ☐ Bottles in shipment, but not on C of C
10. ☐ Analysis Requirements absent/not clear
11. ☐ Labelling Issue (missing/and/or incorrect)
12. ☐ Samples received >5 days after sampling
13. ☐ Samples received after hold time
14. ☐ Wrong Bottle(s) used
15. ☐ Incorrect Preservation or Headspace present
16. ☐ Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17. ☐ Incorrect Task Order # provided to lab

☐ Anomalies _____

☐ Insufficient Sample (lab use only)

- Poured off anions

Comments: _____

	Temperature			Average
Cooler #1				
Cooler #2		3	5	
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

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Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE ____ OF ____

ANALYSIS REQUEST F 15446

COMPANY NAME: Jacques Whitford.

PH. #: 604.436.3014
E-mail:
FAX #: 604 436.3752

COMPANY ADDRESS: 4370 Dominion Street 5th floor Burnaby BC V5G 4L7

CLIENT PROJECT ID: (#) BCV6843.8

SAMPLER NAME (PRINT): Liliana Jerade

PROJECT MANAGER: Liliana Jerade

FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	chloride	metals
1 Site 14 SA2	776587			X		1	25/04/05			X	X
2 " SA2dup	88			X		1					
3 " SA3	89			X		1					
4 " SA1	90			X		1					
5 Site 13 SA3	91			X		1					
6 " SA2	92			X		1					
7 " SA1	93			X		1					
8 Site 12 SA3	94			X		1					
9 " SA1	95			X		1					
10 " SA2	96			X		1					
11 Site 26 SA1	97			X		1					
12 " SA2	98			X		1					

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

STANDARD	5 BUSINESS DAYS	☑
RUSH	3 BUSINESS DAYS	☐
RUSH	2 BUSINESS DAYS	☐
URGENT	1 BUSINESS DAY	☐

OTHER BUSINESS DAYS ____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR

☐ CCME ☑ CSR ☐ ALBERTA TIER 1 ☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C:	DUE DATE:	LOG IN CHECK:
JS		

	DATE: DD/MM/YY	TIME:	
RELINQUISHED BY SAMPLER:	26/04/05	AM	RECEIVED BY:
RELINQUISHED BY:			RECEIVED BY:
RELINQUISHED BY:	25/04/05	1540	RECEIVED BY LABORATORY:

COCFORM - BC - 01/05

ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

MAXXAM ANALYTICS INC. SAMPLE INTEGRITY RECORD – The following bottles were received for the below project:

Client: JACQUES WHITFORD Date: 26 apr 2007 Initial: a C of C #: 15448

Sample #	125ML CLEAR GLASS	250ML CLEAR GLASS	1L AMBER GLASS	1L CLEAR GLASS	1L PLASTIC	500ML AMBER GLASS	250 ML AMBER GLASS	500ML PLASTIC	250ML PLASTIC	250ML PLASTIC FILTERED	250ML PLASTIC HNO3	250ML PLASTIC FILTER/HNO3	250ML PLASTIC H2SO4	250ML PLASTIC FILT/H2SO4	250 ML PLASTIC NaOH	250ML PLASTIC NaOH/ZnAc	Microbiology Bottle	100ml AMBER GLASS H2SO4	40ML AMBER VIALS	40 ml CLEAR VIALS	PLASTIC BAG	AIR SAMPLE	OTHER:	PRESERVATIVE CHECK
1	1																						
2	1																						
3	1																						
4	1																						
5	1																						
6	1																						
7	1																						
8	1																						
9	1																						
10	1																						
11	1																						
12																							

Item #

1.		Custody Seal not Intact
2.		Temp > 10 degrees C
3.		Broken Bottle in Transit
4.		No C of C
5.		C of C information Incomplete
6.		C of C not signed/dated by consultant
7.		Non-current C of C
8.		Bottles listed on C of C, but not in shipment
9.		Bottles in shipment, but not on C of C
10.		Analysis Requirements absent/not clear
11.		Labelling Issue (missing/and/or incorrect)
12.		Samples received >5 days after sampling
13.		Samples received after hold time
14.		Wrong Bottle(s) used
15.		Incorrect Preservation or Headspace present
16.		Insufficient # of bottles (no flag by consultant if insufficient sample available in field)
17.		Incorrect Task Order # provided to lab

	Anomalies _____
	Insufficient Sample (lab use only)

- Poured off anions

Comments: _____

	Temperature			Average
Cooler #1				
Cooler #2		3	5	
Cooler #3				
Cooler #4				
Cooler #5				

Condition of ice/ice packs: _____

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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE ____ OF ____

ANALYSIS REQUEST F 15448

page 347 of 462 TRA-2017-70442

COMPANY NAME: Jacques Whitford.

PH. #: 6044363014
E-mail:
FAX #: 6044363752.

COMPANY ADDRESS: 4370 Dominion St 5th floor, Burnaby BC V5G 4L7

CLIENT PROJECT ID: (#) BCV61843.8

SAMPLER NAME (PRINT): Liliana Jerade.

PROJECT MANAGER: Liliana Jerade.

FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX: GROUND WATER	MATRIX: SURFACE WATER	MATRIX: SOIL	MATRIX: OTHER	# CONTAINERS	SAMPLING: DATE DD/MM/YY	SAMPLING: TIME	SAMPLING: HEADSPACE VAPOUR	chlorides.	metals.
1 Site 26 SA3	776599			x		1	25/04/05			x	x
2 Site 11 SA3	776600			x		1					
3 " SA2	01			x		1					
4 " SA1 dup	02			x		1					
5 " SA1	03			x		1					
6 Site 9 SA1	04			x		1					
7 " SA3	05			x		1					
8 " SA2	06			x		1					
9 Site 10 SA1	07			x		1					
10 " SA2	08			x		1					
11 " SA3	09			x		1					
12				x		1					

TAT (Turnaround Time)

<5 DAY TAT MUST HAVE PRIOR APPROVAL

*some exceptions apply please contact lab

- STANDARD 5 BUSINESS DAYS ☒
- RUSH 3 BUSINESS DAYS ☐
- RUSH 2 BUSINESS DAYS ☐
- URGENT 1 BUSINESS DAY ☐

OTHER BUSINESS DAYS ____

CUSTODY RECORD

P.O. NUMBER / QUOTE NUMBER: JW2005

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: CSR

- ☐ CCME
- ☒ CSR
- ☐ ALBERTA TIER 1
- ☐ OTHER

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS: EDT

JARS USED:

LAB USE ONLY

ARRIVAL TEMPERATURE °C:	DUE DATE:	LOG IN CHECK:
JS	Copy 29/04/05 MF	

RELINQUISHED BY SAMPLER:	DATE: DD/MM/YY 25/04/05	TIME: AM.	RECEIVED BY:	
RELINQUISHED BY:	DATE: DD/MM/YY	TIME:	RECEIVED BY:	
RELINQUISHED BY:	DATE: DD/MM/YY 25/04/05	TIME: 1540	RECEIVED BY LABORATORY: MF	

COCFORM - BC - 01/06

ORIGINAL - MAXXAM YELLOW - MAXXAM PINK - CLIENT

APPENDIX G

Electromagnetic Survey Report

Jacques Whitford © 2005

JACQUES WHITFORD ENVIRONMENT LTD.

REPORT ON

EM31 TERRAIN CONDUCTIVITY SURVEY

SELECTED HIGHWAY LOCATIONS

BRITISH COLUMBIA

by

Cliff Candy, P.Geo.

Carson Yarham, B.Sc.

November, 2004

PROJECT FGI-787

Frontier Geosciences Inc. 237 St. Georges Avenue, North Vancouver, B.C., Canada V7L 4T4
Tel: 604.987.3037 Fax: 604.984.3074

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	page
1. INTRODUCTION	1
2. THE TERRAIN CONDUCTIVITY SURVEY	2
2.1 Equipment	2
2.2 Survey Procedure	2
3. GEOPHYSICAL RESULTS	3
3.1 General	3
3.2 Discussion	3
4. LIMITATIONS	5

ILLUSTRATIONS

		location
Figure 1	Survey Location Plan	Appendix
Figure 2	Conductivity Profile Site 1	Appendix
Figure 3	Conductivity Profile Site 2A	Appendix
Figure 4	Conductivity Profile Site 2B	Appendix
Figure 5	Conductivity Profile Site 3	Appendix
Figure 6	Conductivity Profile Site 4	Appendix
Figure 7	Conductivity Profile Site 5	Appendix
Figure 8	Conductivity Profile Site 6	Appendix
Figure 9	Conductivity Profile Site 7	Appendix
Figure 10	Conductivity Profile Site 8	Appendix
Figure 11	Conductivity Profile Site 9	Appendix
Figure 12	Conductivity Profile Site 10	Appendix
Figure 13	Conductivity Profile Site 11	Appendix
Figure 14	Conductivity Profile Site 12	Appendix
Figure 15	Conductivity Profile Site 13	Appendix
Figure 16	Conductivity Profile Site 14	Appendix
Figure 17	Conductivity Profile Site 15	Appendix
Figure 18	Conductivity Profile Site 16	Appendix
Figure 19	Conductivity Profile Site 17	Appendix
Figure 20	Conductivity Profile Site 18A	Appendix
Figure 21	Conductivity Profile Site 18B	Appendix
Figure 22	Conductivity Profile Site 19A	Appendix
Figure 23	Conductivity Profile Site 19B	Appendix
Figure 24	Conductivity Profile Site 20	Appendix
Figure 25	Conductivity Profile Site 21	Appendix
Figure 26	Conductivity Profile Site 22	Appendix
Figure 27	Conductivity Profile Site 23A	Appendix
Figure 28	Conductivity Profile Site 23B	Appendix
Figure 29	Conductivity Profile Site 24	Appendix
Figure 30	Conductivity Profile Site 25A	Appendix
Figure 31	Conductivity Profile Site 25B	Appendix

1. INTRODUCTION

In the period November 10 to November 18, 2004, Frontier Geosciences Inc. carried out electromagnetic terrain conductivity surveys for Jacques Whitford Environmental Ltd. at twenty-five locations along the highways of British Columbia. Each location was measured out to be a hundred metres long and was identified by GPS positioning and landmarks. A Survey Location Plan of the province, illustrating the site locations, is shown at 1:2,500,000 scale in Figure 1.

The purpose of the terrain conductivity investigations was to detect elevated soil conductivities that may be due to the presence of increased chloride/total dissolved salt levels in the earth materials at the sites. The source of the increased levels of chloride/total dissolved salts is believed to be run-off from dissolved salts used in highway deicing.

2. THE TERRAIN CONDUCTIVITY SURVEY

2.1 Equipment

The electromagnetic terrain conductivity surveying was carried out using a Geonics Ltd. EM31 electromagnetic terrain conductivity instrument. This unit is an electromagnetic instrument consisting of a transmitter coil and a receiver coil at opposing ends of a 3.66 m boom. Together with the electronics package, the instrument is one person portable. The instrument is operated at audio frequencies and makes use of the effect that earth conductivity information is contained in the behaviour of the phase of the received EM field. This phase information is calibrated to read directly in milliSiemens/metre, units of conductivity. The effective penetration of the instrument under usual conditions is six metres in the normal vertical dipole operating position and three metres in the horizontal dipole operating position. The EM31 was used in conjunction with a data logger. The recorded data was downloaded to a field computer for processing and plotting.

The electrical resistivity (or conductivity) of a geologic unit is determined by the amount of contained water, the distribution of water within the unit, the quantity of the total dissolved salts in the water, and the presence of minerals such as clays with conductive ion exchange properties. Thus, the resistivity of most granular soils and rocks is controlled more by porosity, water content and water quality than by the conductivity of matrix materials. The resistivity of the soil would be strongly dependent on the total dissolved salts in the pore space water.

2.2 Survey Procedure

At each site where safe to do so, a 100 metre traverse was laid out along both sides of the highway and surveying was conducted parallel to this line. Surveying was carried out at a constant rate and the data logger automatically recorded and stored readings at set intervals. For each survey line, the instrument was held parallel to the ground surface in the vertical dipole position and the reading recorded and stored in the data logger. Survey lines were spaced two to three metres apart with survey coverage dependent on accessibility at each site. The survey was also performed with the EM31 in the horizontal dipole position. The instrument reading in the horizontal dipole position provides an effective depth of exploration approximately half of the penetration in the vertical dipole mode. GPS positioning was recorded for the beginning and end of each 100 metre traverse.

Readings with the EM31 were made at constant terrain clearance to maintain consistency. Throughout the survey, notes were recorded regarding line and station positions in relation to existing structures, signs and sample sites.

3. GEOPHYSICAL RESULTS

3.1 General

The EM31 survey data, after downloading from the instrument, was gridded, contoured and plotted at a scale of 1:400 in Figures 2 through 31 in the Appendix. Both vertical dipole and horizontal dipole readings are shown for each site. Cool colours generally denote low apparent conductivity and warm colours generally indicate high apparent conductivity in milli-Siemens/metre (mS/m). The grids are based on the GPS measurements that were recorded at each site location.

3.2 Discussion

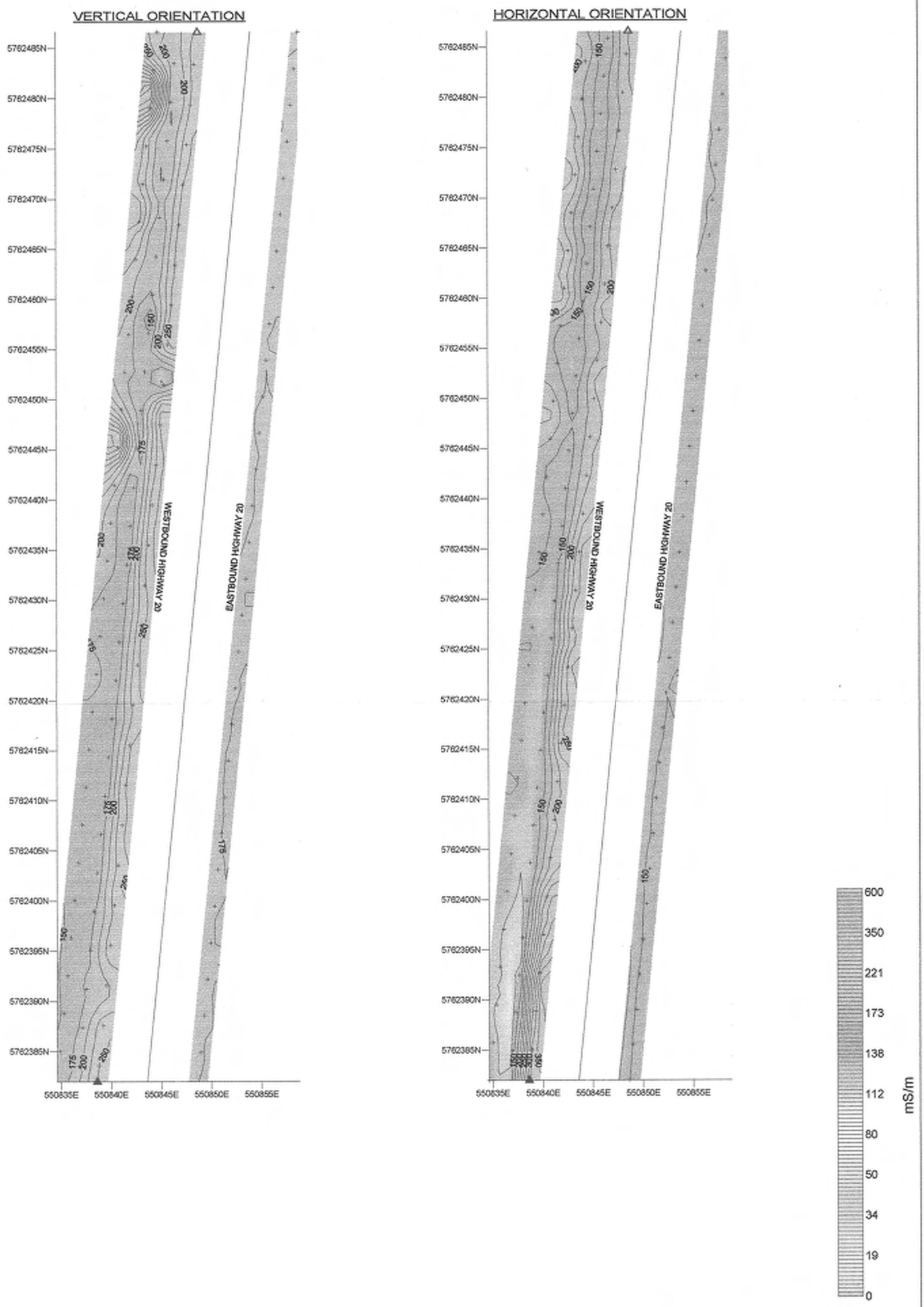
Both the deep vertical dipole and shallow horizontal dipole conductivity contour plans show a number of responses due to cultural features and possible elevated concentrations of salt in the soils underlying the sites. The presence of several objects such as culverts, signs and driveways are evident in the conductivities of several of the sites which are marked by generally higher conductivities. It is also likely that some of the recorded anomalous spikes may be due to buried metallic objects which may be found in roadside environments. A probable example of a metallic anomaly is evident on the westbound side of Site 4 which shows a characteristic response of a buried metal object in both vertical and horizontal modes. In addition, strong, isolated, high conductivity linears parallel with the roadway may be indicative of buried pipelines. Examples of these features are the eastbound highway at Site 4, the southbound highway at Site 10, the westbound highway at Site 11, eastbound Sun Peaks at site 12, westbound at Site 15, eastbound at Site 17 and westbound at Site 19B. These features however, indicate strong conductivity gradients that may reflect salt concentrations or a combination of salt concentrations adjacent to or overlying, a buried pipeline.

Figures 2 to 31 show a wide array of differing situations regarding roadside conductivity. Some cases show lower conductivities adjacent to the roadsides with higher conductivities further out. This distribution may be attributed to road construction materials having smaller and fewer pore spaces due to densification from road construction. This may be in contrast to an increase in pore size and water content further from the road. Given a lateral soil change is not present, any saline contaminants would have a smaller effect near the road with increased conductivities with distance, from the road. This condition would also

be reflected by conductivity contours parallel with the road and a constant gradient in conductivity with distance, from the road.

Alternately, cases of increased conductivity at the roadway are also observed. In these instances, salt contamination is concentrated adjacent to the road and decreases with distance from the road. In these cases, generally high conductivities may occur along the ditch where the saline solution is concentrated. If salt concentrations are sufficiently strong, these conductivity anomalies would appear similar to some anomalies due to buried pipelines

In a few cases, there is a steep increase in conductivity with increases in elevation on the upslope side of the roadway. These steep gradients are generally caused by topographic effects and not by overall conductivity variations. The EM31 operates on the assumption of constant height above the ground and on a side slope that height is reduced, leading to an increase in conductivity. An example of this effect is the eastbound side of the highway at Site 3.



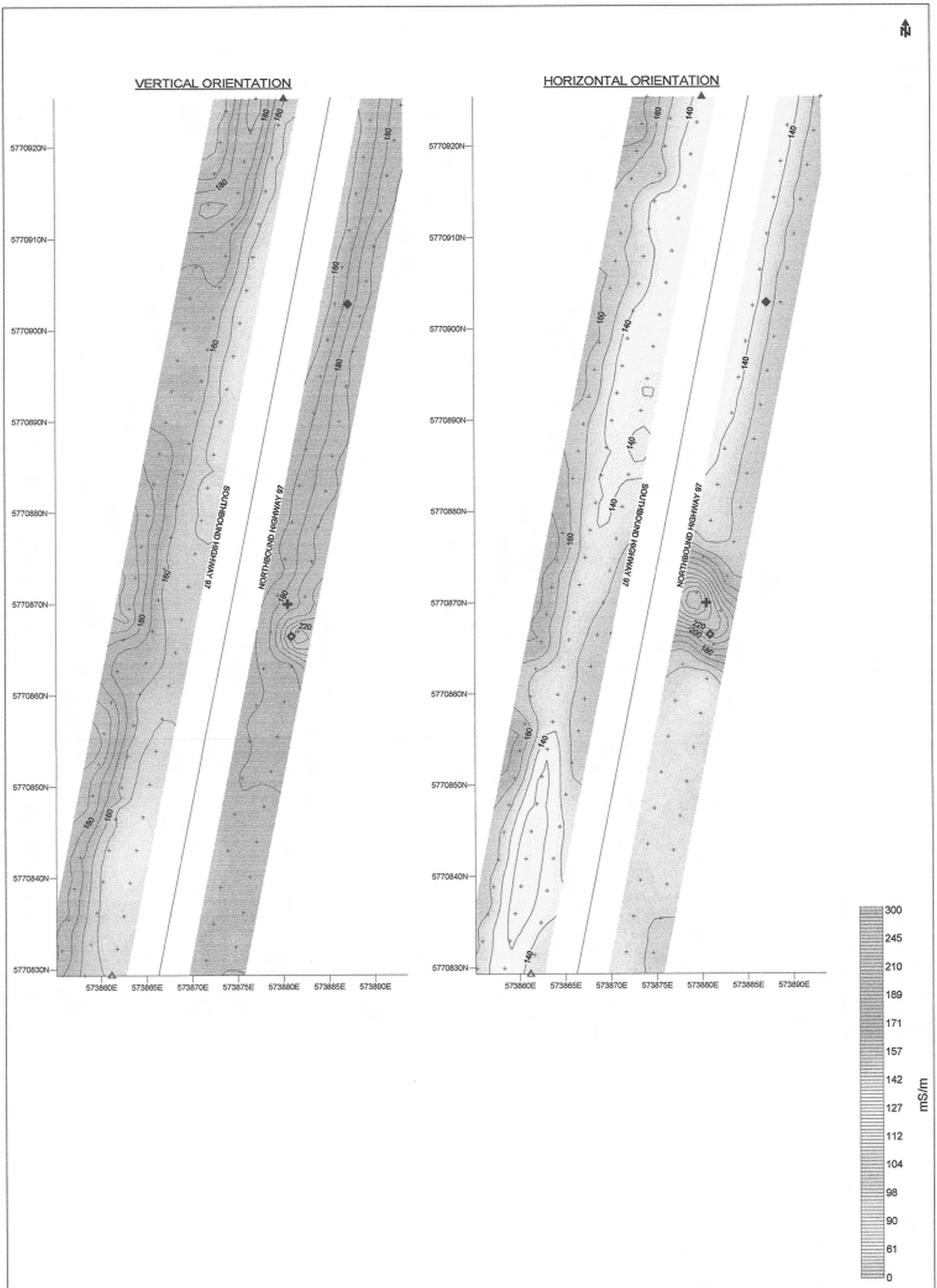
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 15

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 17



△ GPS 14A = 10U 573861, 5770829
▲ GPS 14B = 10U 573880, 5770925 NAD83

LEGEND

- ◇ SIGN - JONES LAKE RANCH 3181-3183
- ◆ SIGN - 150 MILE HOUSE TRUCK STOP CARDLOCK
- ✚ DRIVEWAY

+ REPRESENTS EVERY FIFTH READING

DOWNSLOPE ↙

0 5 10 15 20
METRES

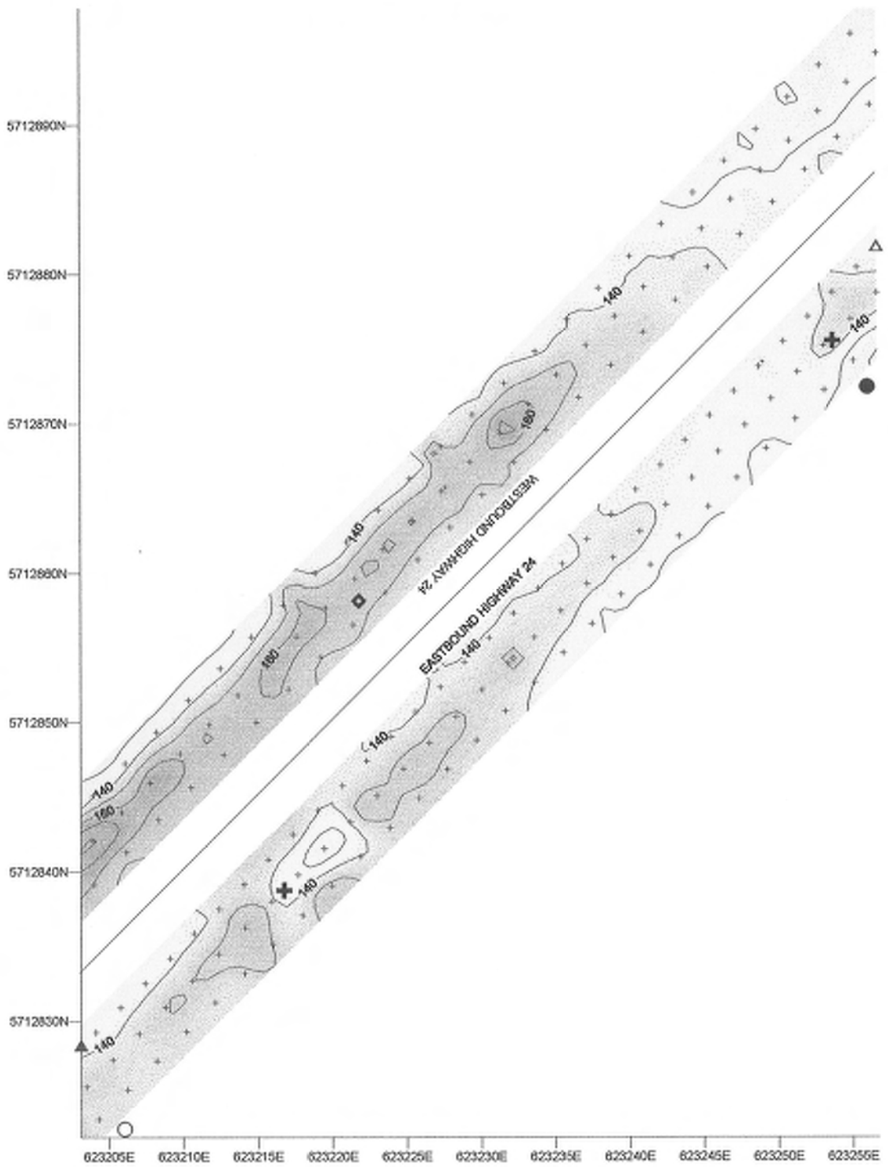
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 14

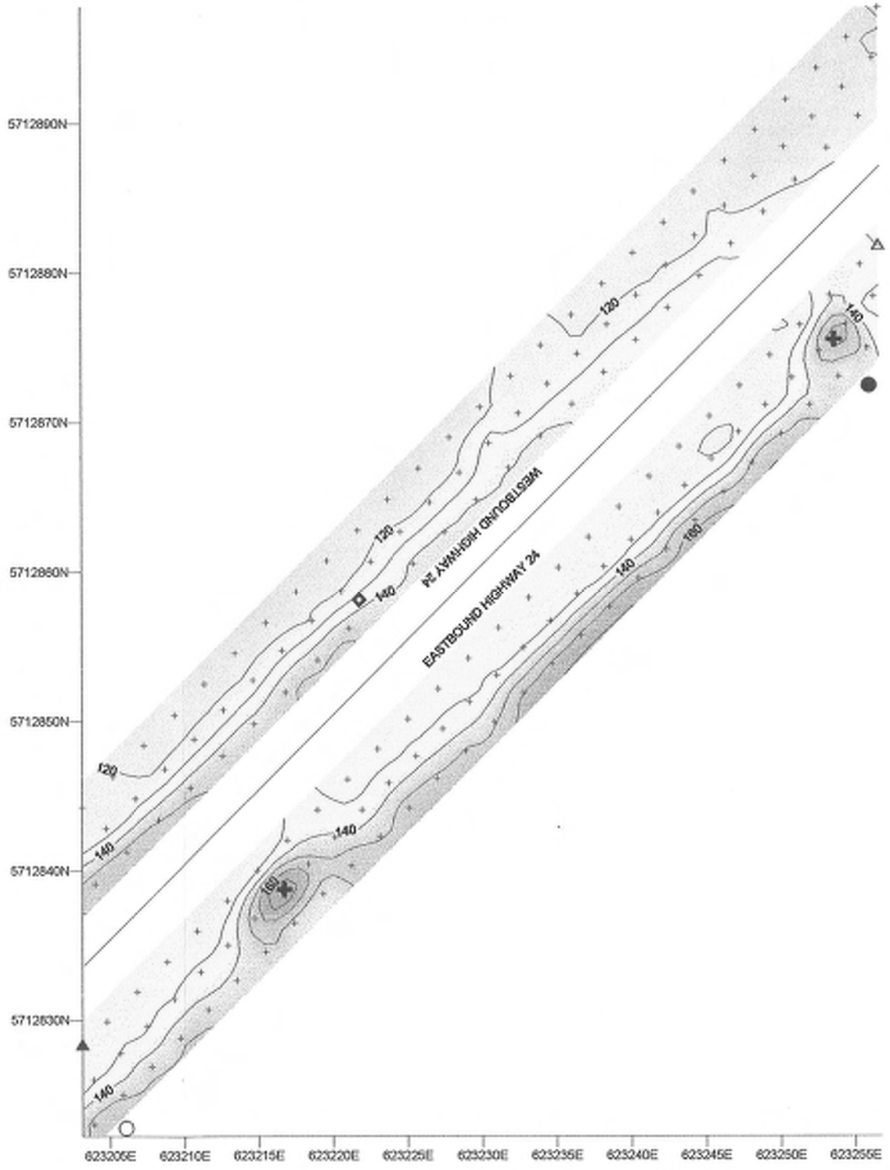
FRONTIER GEOSCIENCES INC.

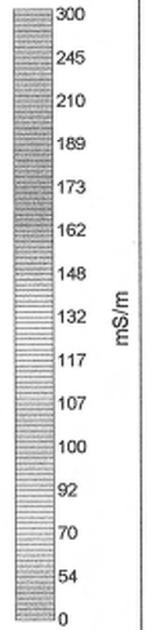
DATE: NOV. 2004	SCALE 1:400	FIG. 16

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 13A = 10U 623256, 5712881
▲ GPS 13B = 10U 623203, 5712828 NAD83

LEGEND

- ◇ SIGN - FOOD ROADHOUSE RESTURANT
- ✚ DRIVEWAY
- ○ POLE 106
- ● POLE 107

DOWNSLOPE
NO SLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

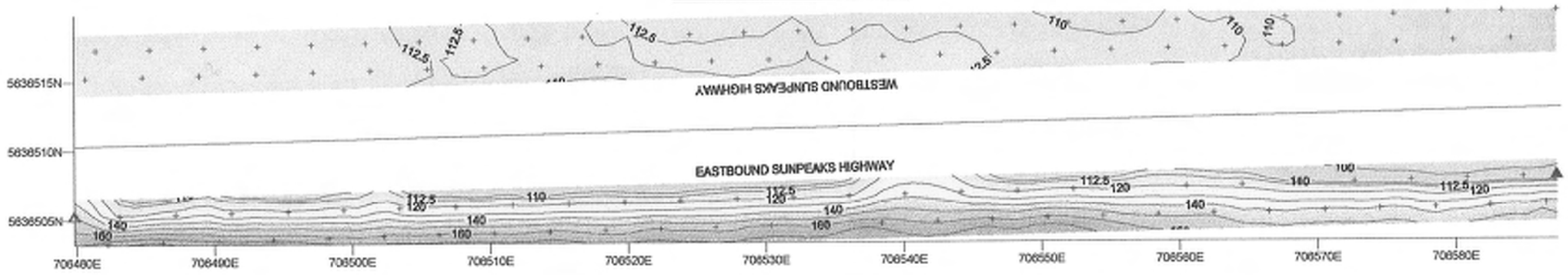
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE
SITE 13

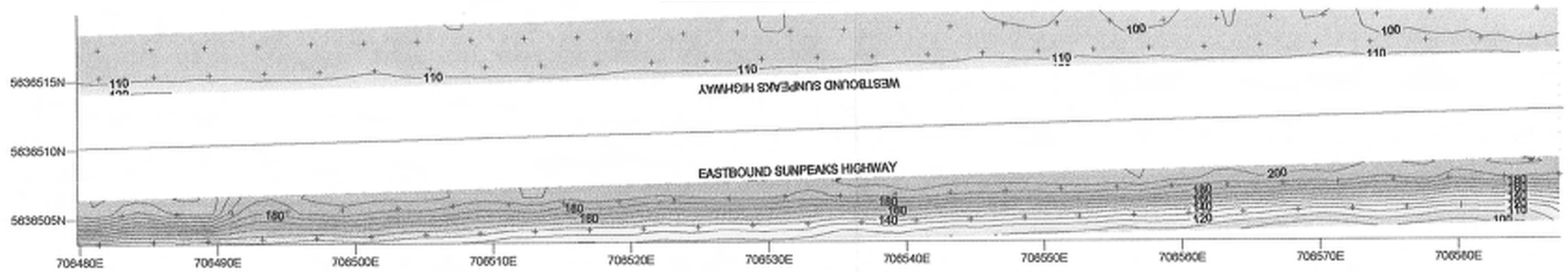
FRONTIER GEOSCIENCES INC.

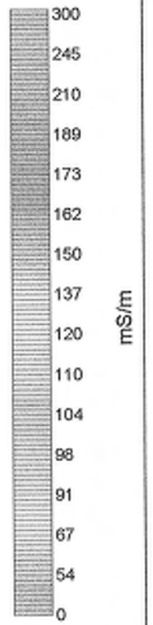
DATE: NOV. 2004	SCALE 1:400	FIG. 15

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 12A = 10U 706479, 5636505
▲ GPS 12B = 10U 706587, 5636507 NAD83

DOWNSLOPE

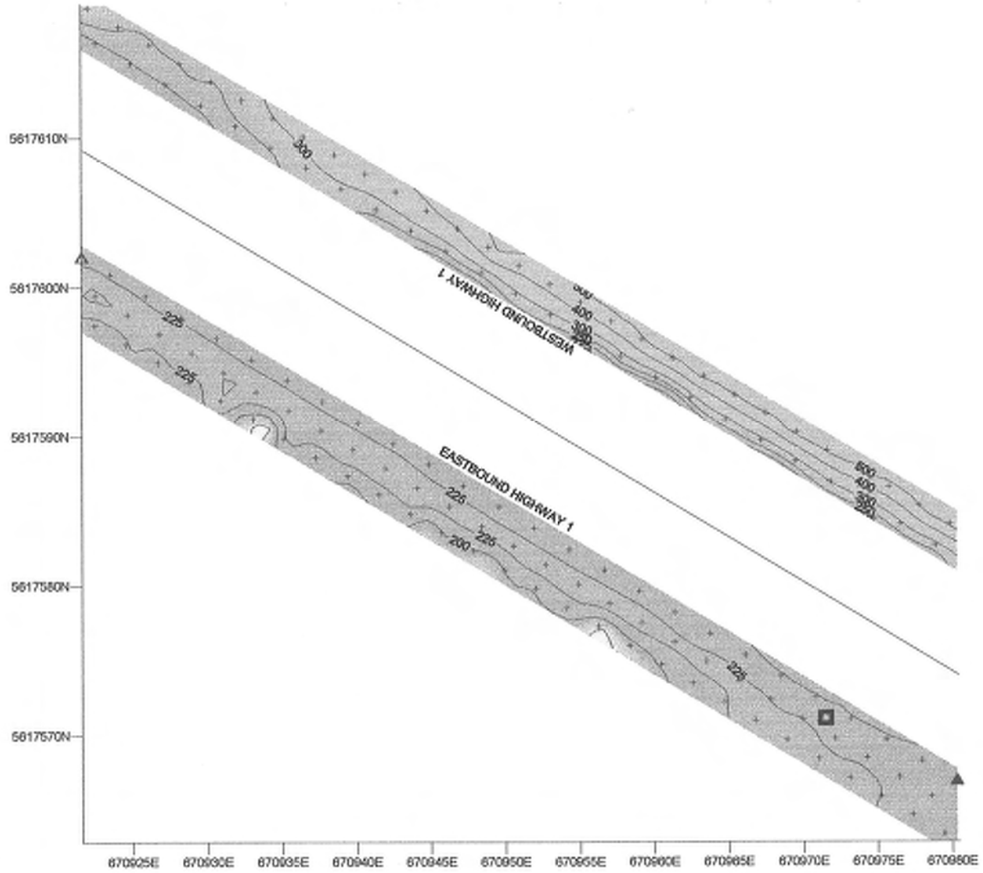
0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

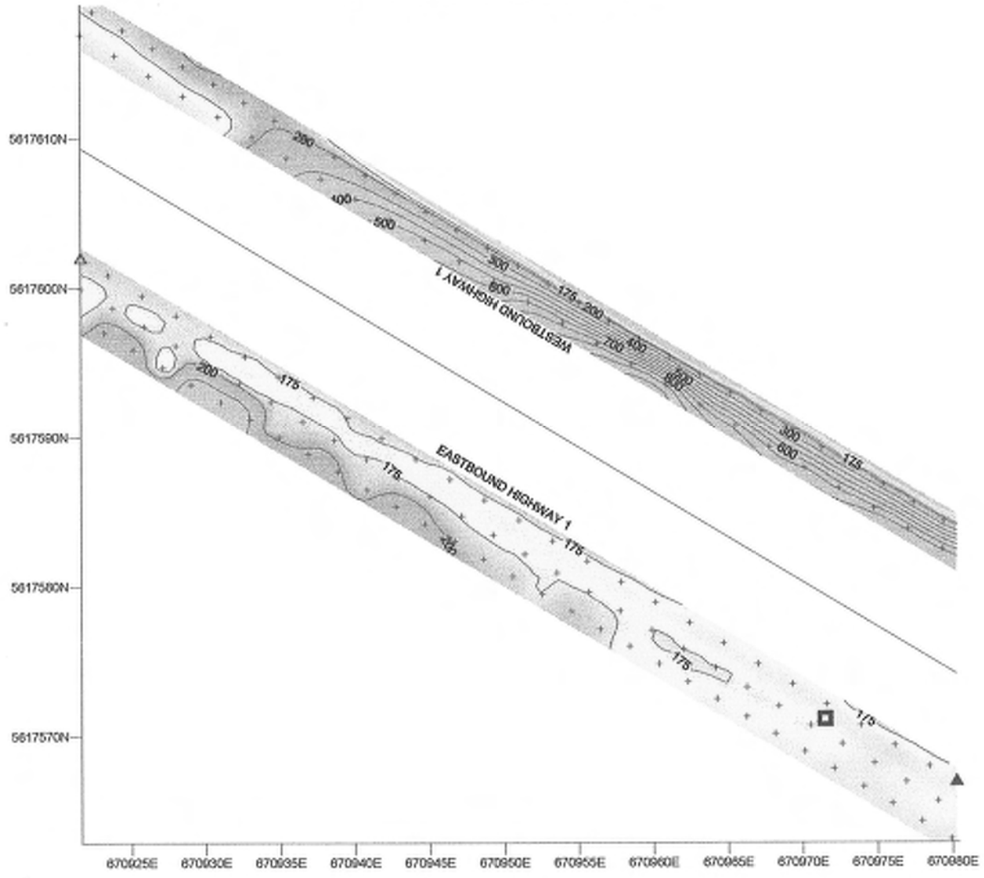
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE SITE 12
FRONTIER GEOSCIENCES INC.

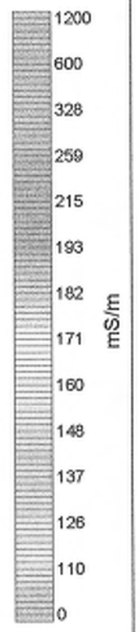
DATE: NOV. 2004	SCALE: 1:400	FIG. 14

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 11A = 10U 670921, 5617601
▲ GPS 11B = 10U 670980, 5617566 NAD83

LEGEND

◇ SIGN - RIGHT TURN AHEAD

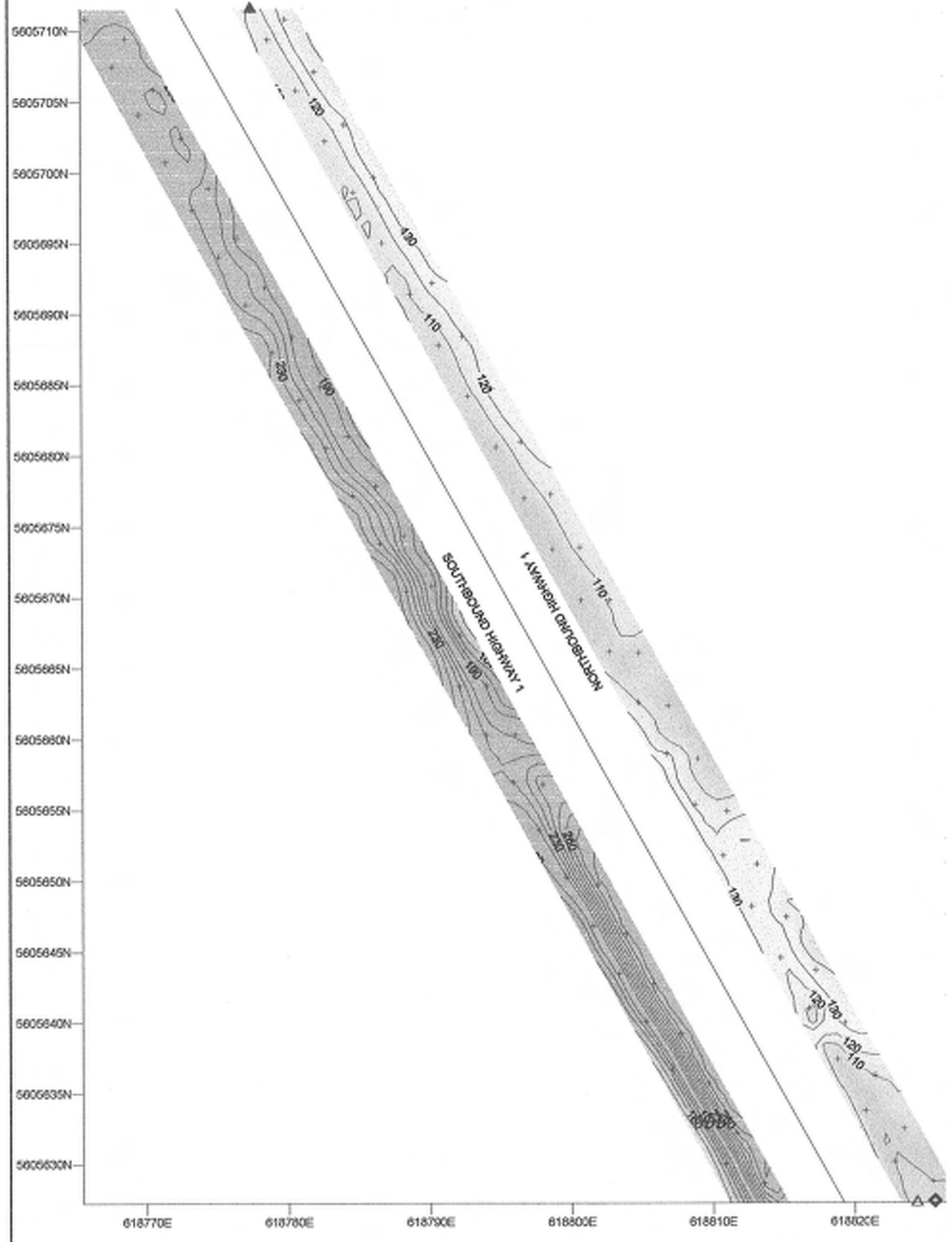
DOWNSLOPE ↙

0 5 10 15 20
METRES

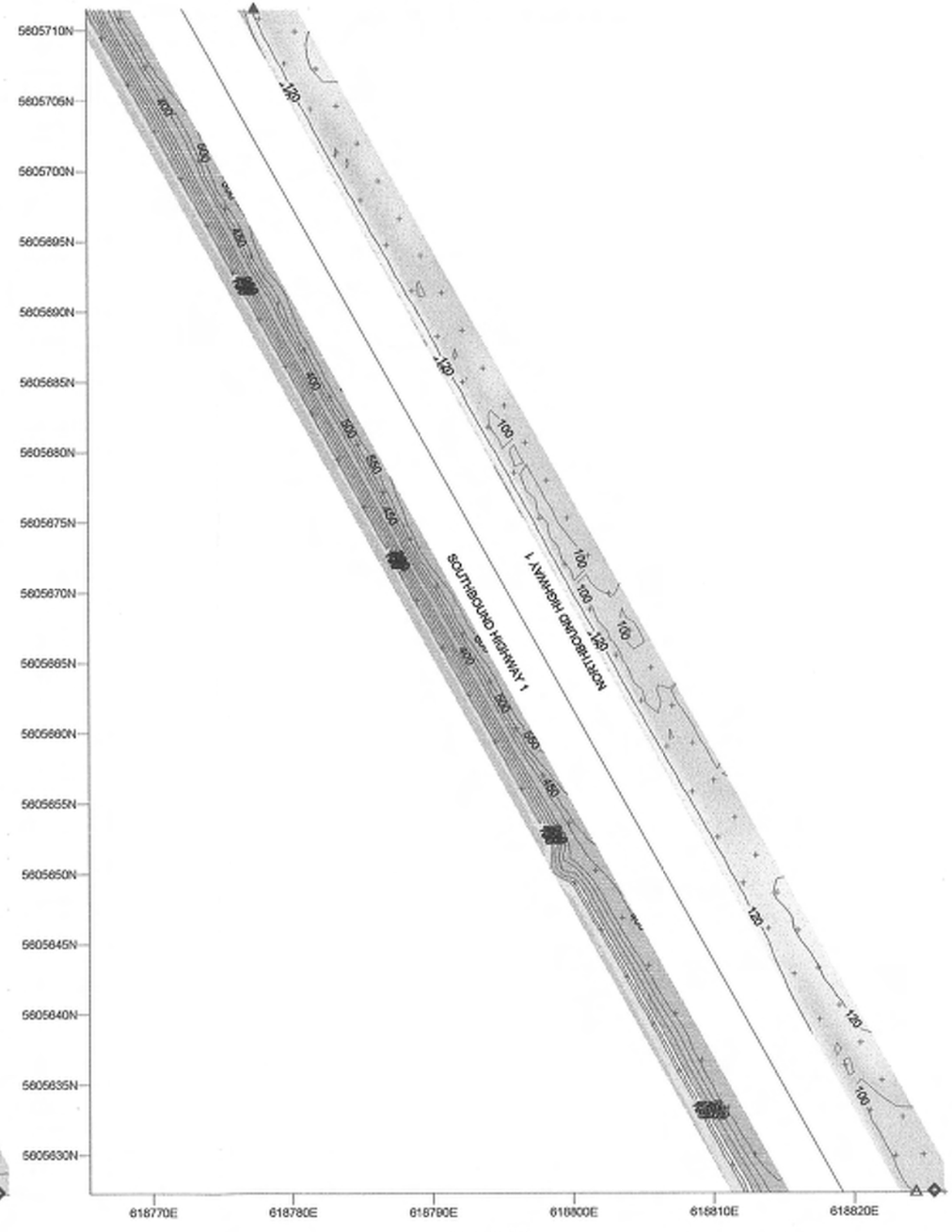
+ REPRESENTS EVERY FIFTH READING

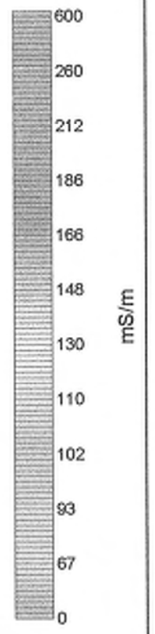
JACQUES WHITFORD ENVIRONMENT LTD. BRITISH COLUMBIA HIGHWAYS		
EM-31 TERRAIN CONDUCTIVITY SURVEY		
CONDUCTIVITY PROFILE SITE 11		
FRONTIER GEOSCIENCES INC.		
DATE: NOV. 2004	SCALE 1:400	FIG. 13

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 10A = 10U 618824, 5605627
▲ GPS 10B = 10U 618777, 5605711 NAD83

LEGEND

◇ SIGN - MAX 100 KM/H

DOWNSLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

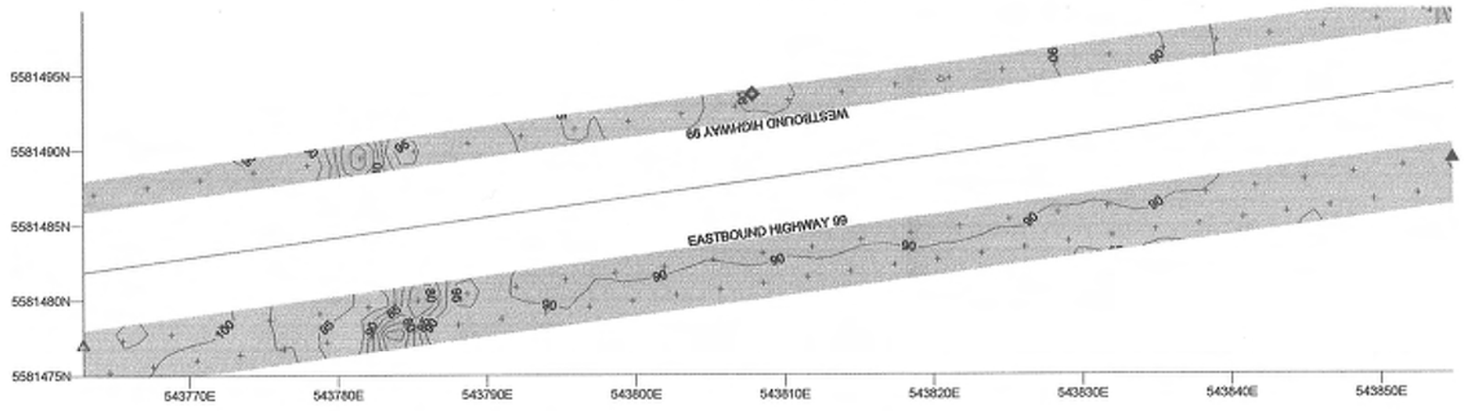
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 10

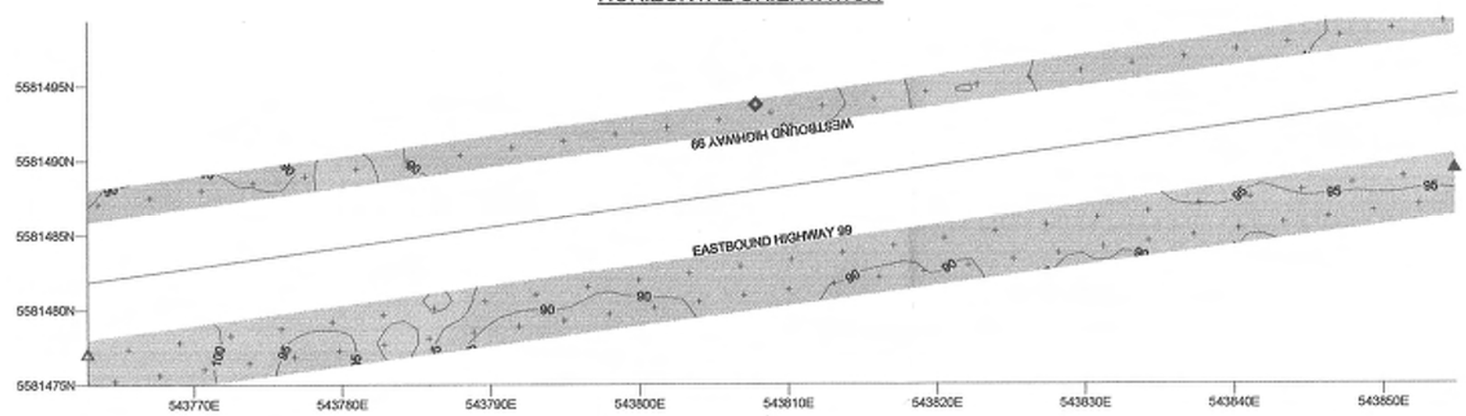
FRONTIER GEOSCIENCES INC.

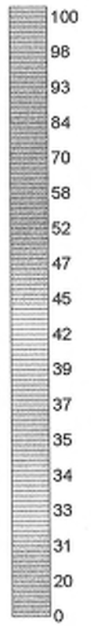
DATE: NOV. 2004	SCALE 1:400	FIG. 12

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 9A = 10U 543762, 5581476
▲ GPS 9B = 10U 543854, 5581489 NAD83

LEGEND

◇ SIGN - 63.6

DOWNSLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

EM-31 TERRAIN CONDUCTIVITY SURVEY

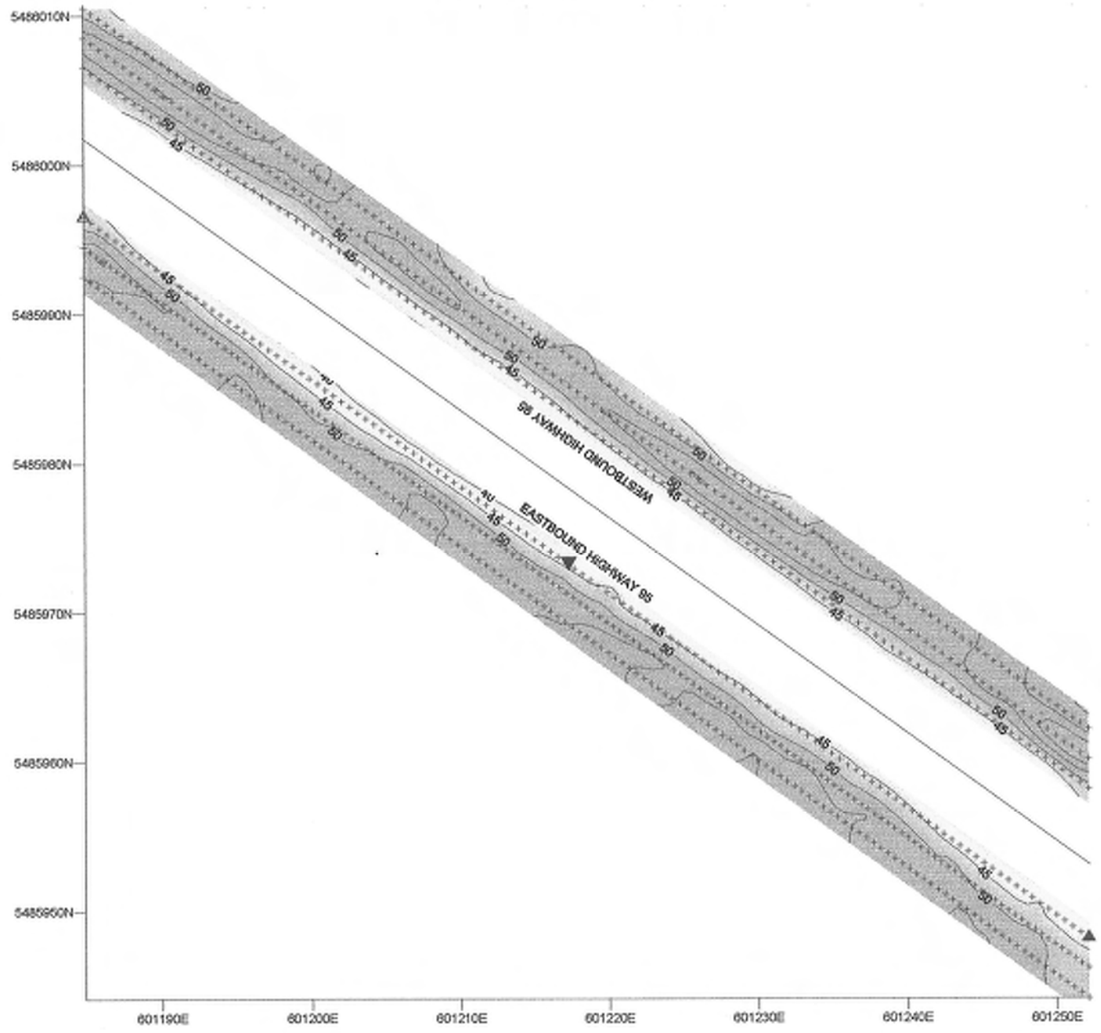
CONDUCTIVITY PROFILE
SITE 9

FRONTIER GEOSCIENCES INC.

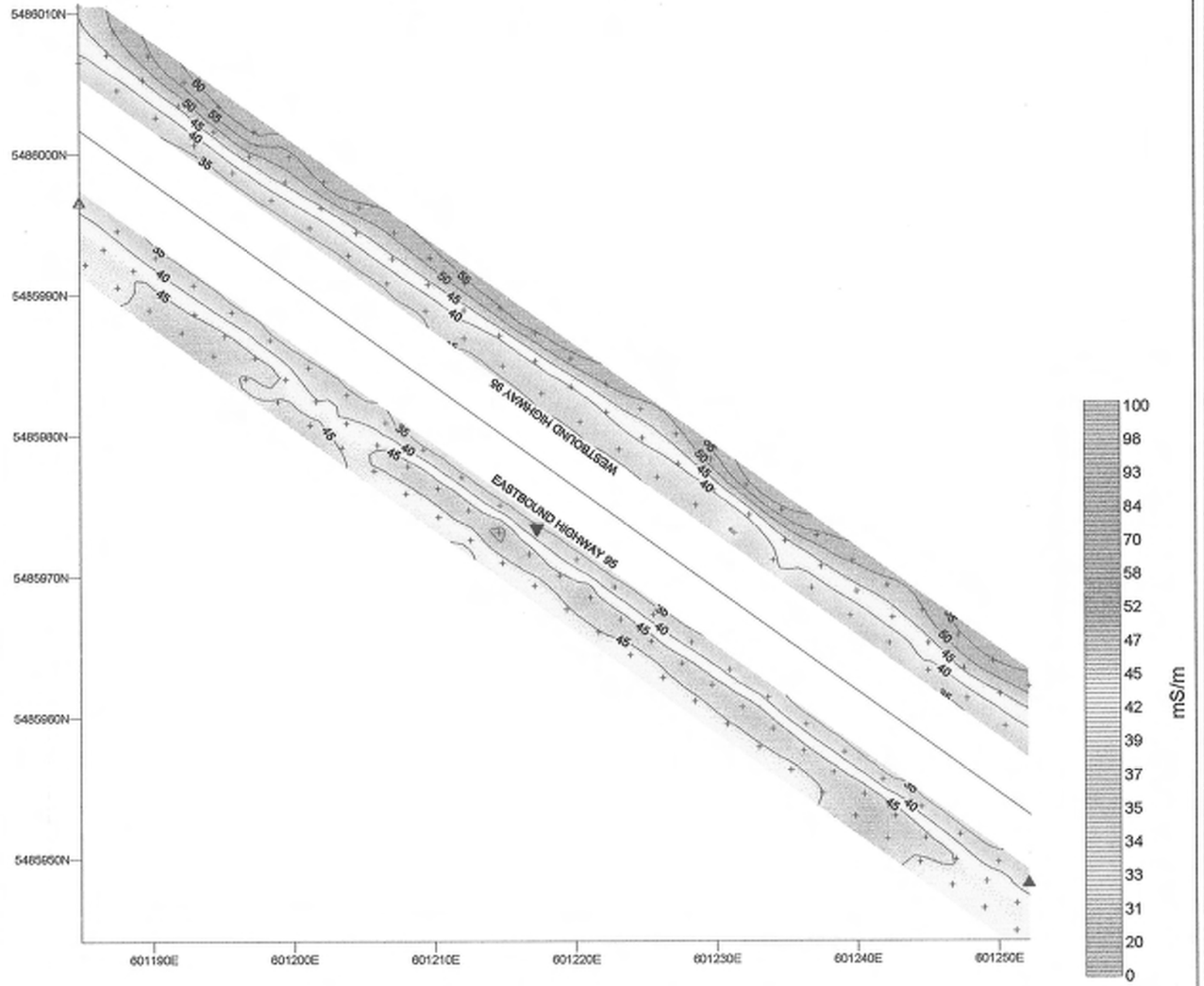
DATE: NOV. 2004	SCALE 1:400	FIG. 11

N

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION



△ GPS 7A = 11U 601184, 5485996
▲ GPS 7B = 11U 601252, 5485948 NAD83

LEGEND

▼ SITE 7 MARKER

DOWNSLOPE

NO SLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

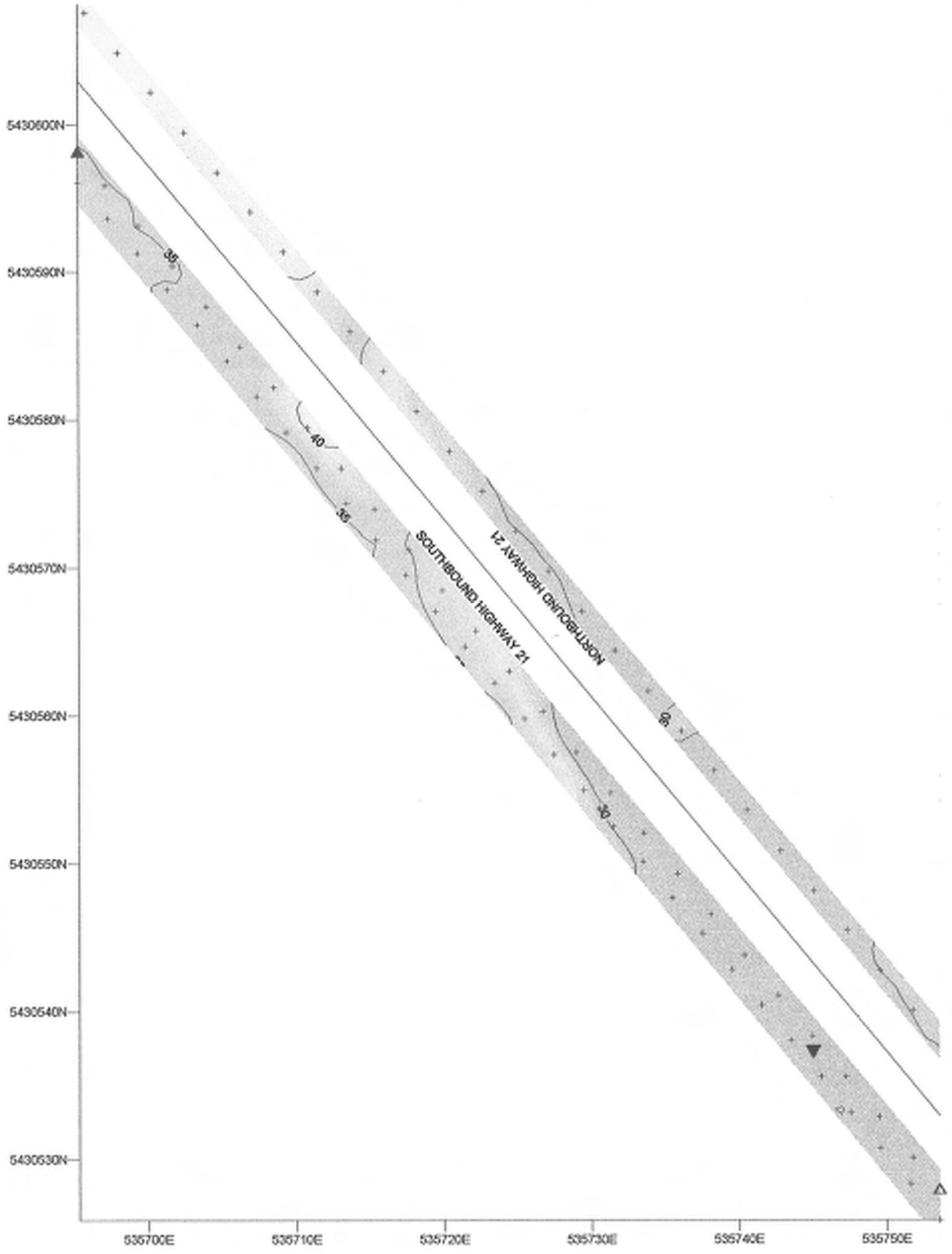
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 7

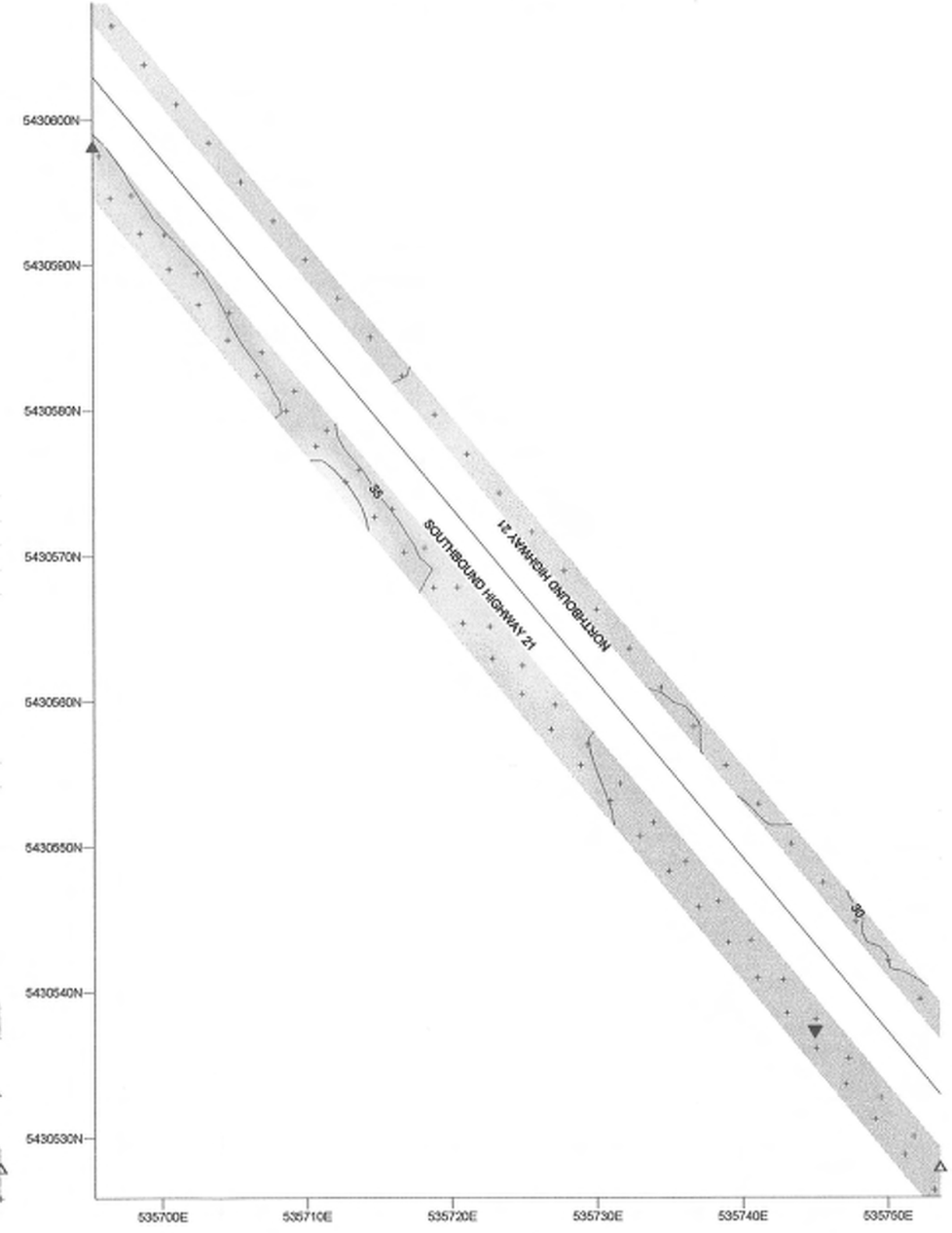
FRONTIER GEOSCIENCES INC.

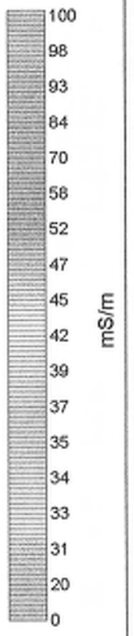
DATE: NOV. 2004	SCALE 1:400	FIG. 9

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 6A = 11U 535753, 5430527
▲ GPS 6B = 11U 535695, 5430598 NAD83

LEGEND
▼ SITE 6 MARKER

DOWNSLOPE

0 5 10 15 20
METRES

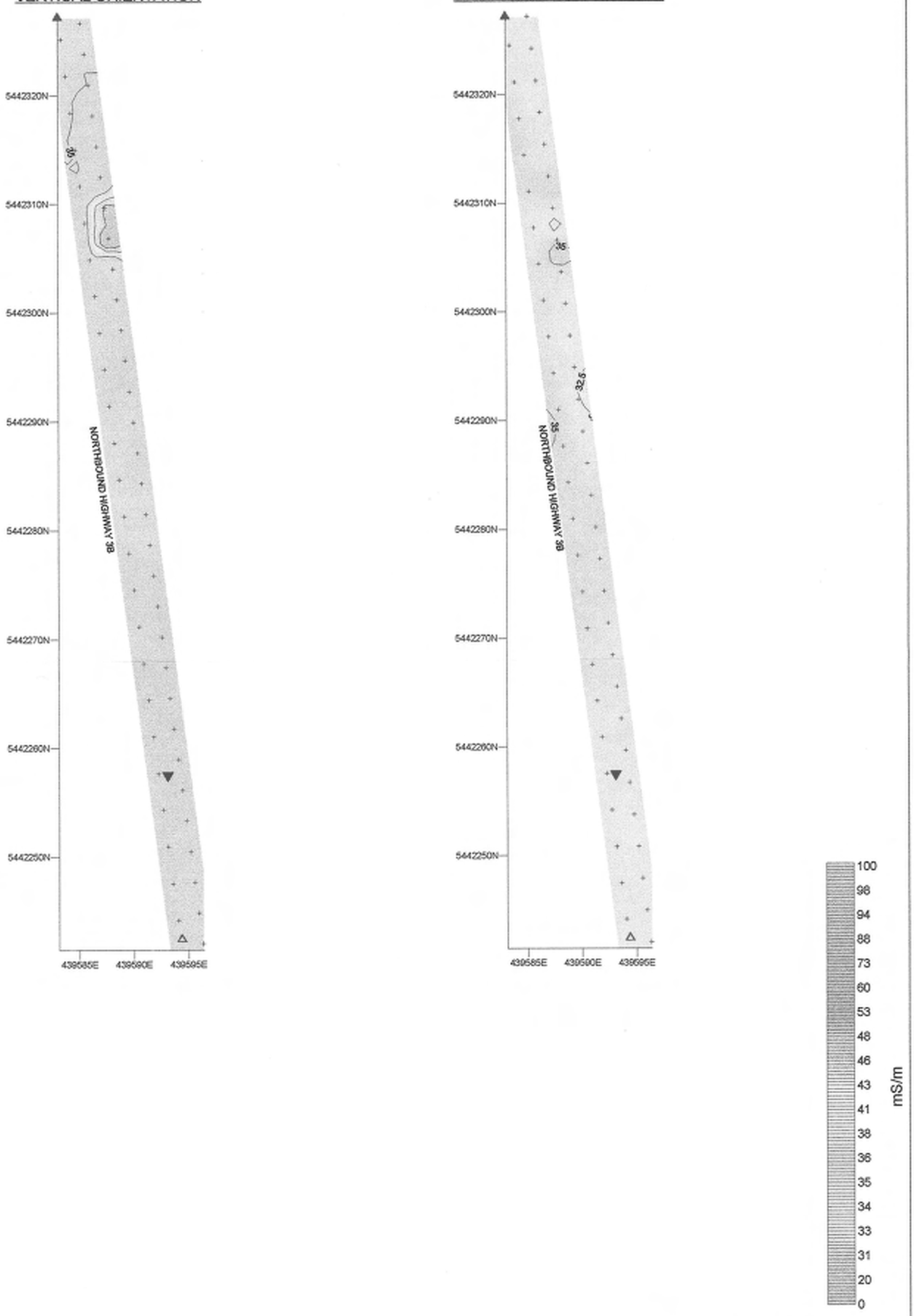
+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 6

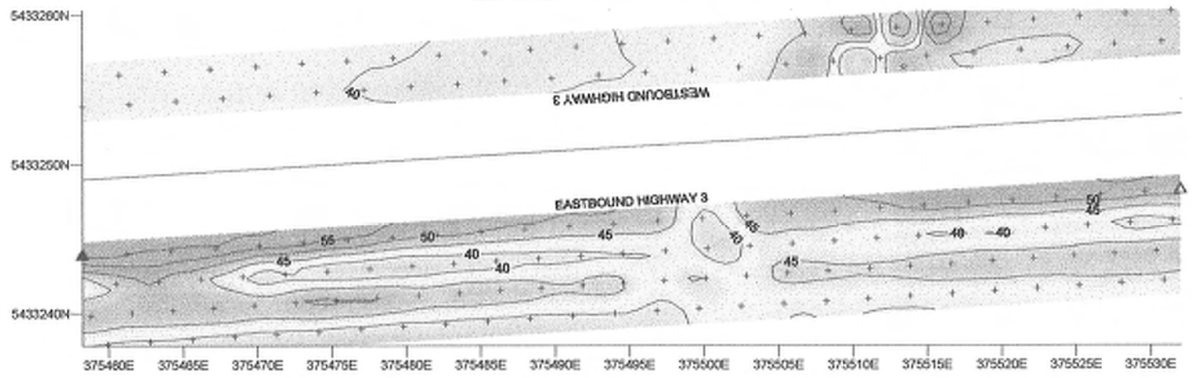
FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 6

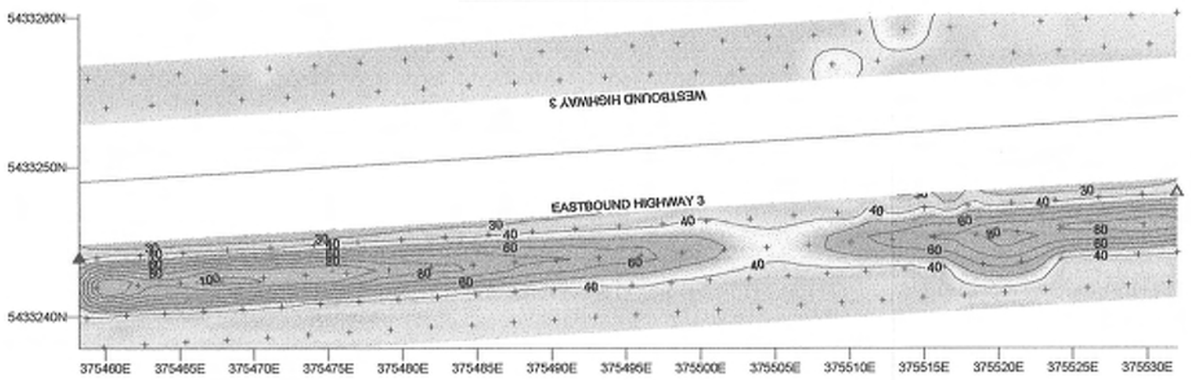

VERTICAL ORIENTATION
HORIZONTAL ORIENTATION
5442320N
5442310N
5442300N
5442290N
5442280N
5442270N
5442260N
5442250N
439585E
439590E
439595E
NORTHBOUND HIGHWAY 3B
35
32.5
100
98
94
88
73
60
53
48
46
43
41
38
36
35
34
33
31
20
0
mS/m
GPS 5A = 11U 439594, 5442242
GPS 5B = 11U 439583, 5442327
NAD83
LEGEND
SITE 5 MARKER
DOWNSLOPE
0 5 10 15 20
METRES
REPRESENTS EVERY FIFTH READING
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE
SITE 5
FRONTIER GEOSCIENCES INC.
DATE: NOV. 2004
SCALE 1:400
FIG. 7

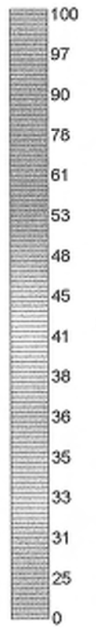
N

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 4A = 11U 375532, 5433248
▲ GPS 4B = 11U 375458, 5433243 NAD83

DOWNSLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY

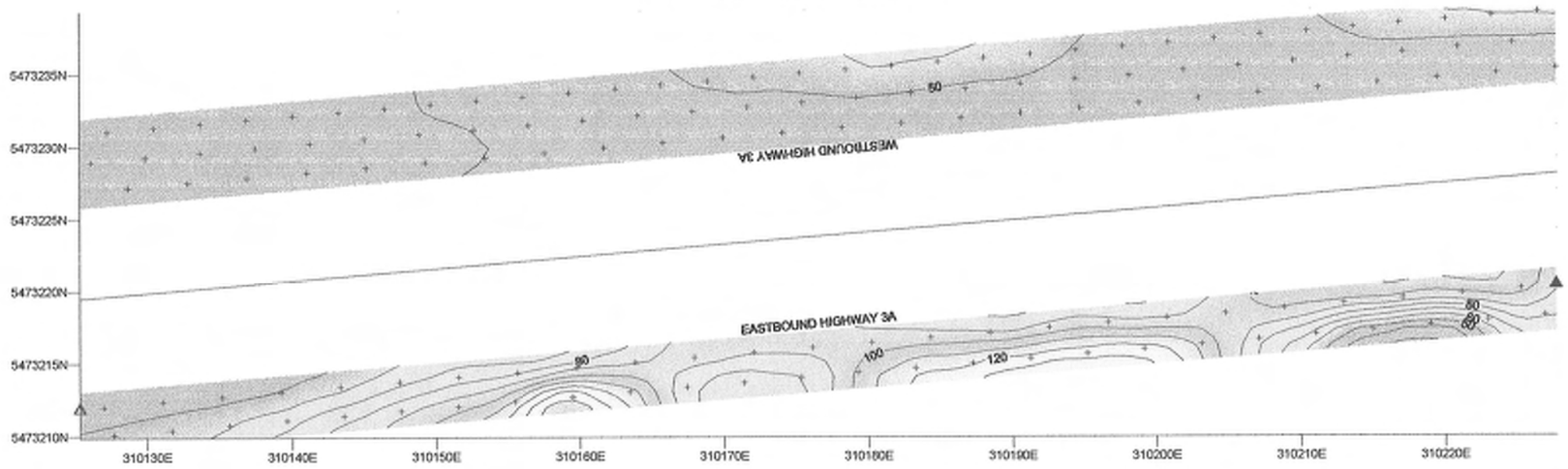
CONDUCTIVITY PROFILE SITE 4

FRONTIER GEOSCIENCES INC.

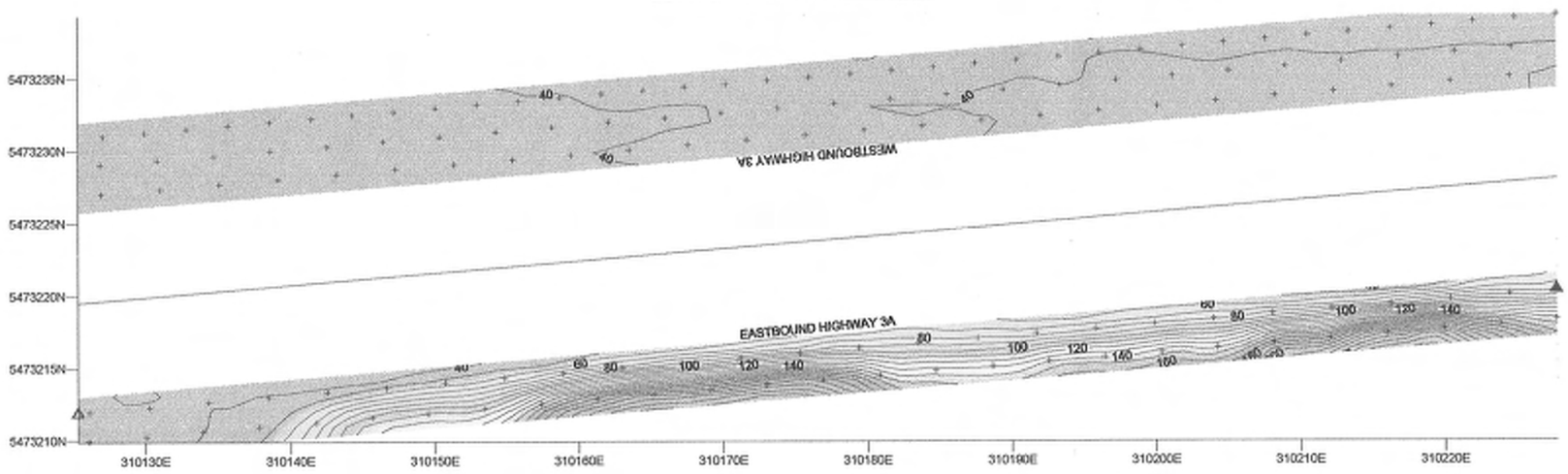
DATE: NOV. 2004	SCALE 1:400	FIG. 6

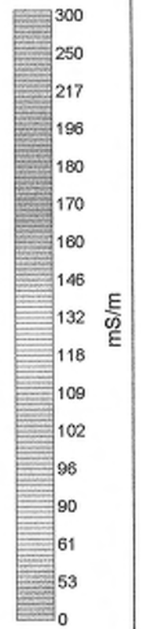
N

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 3A = 11U 310125, 5473211
▲ GPS 3B = 11U 310227, 5473220 NAD83

DOWNSLOPE

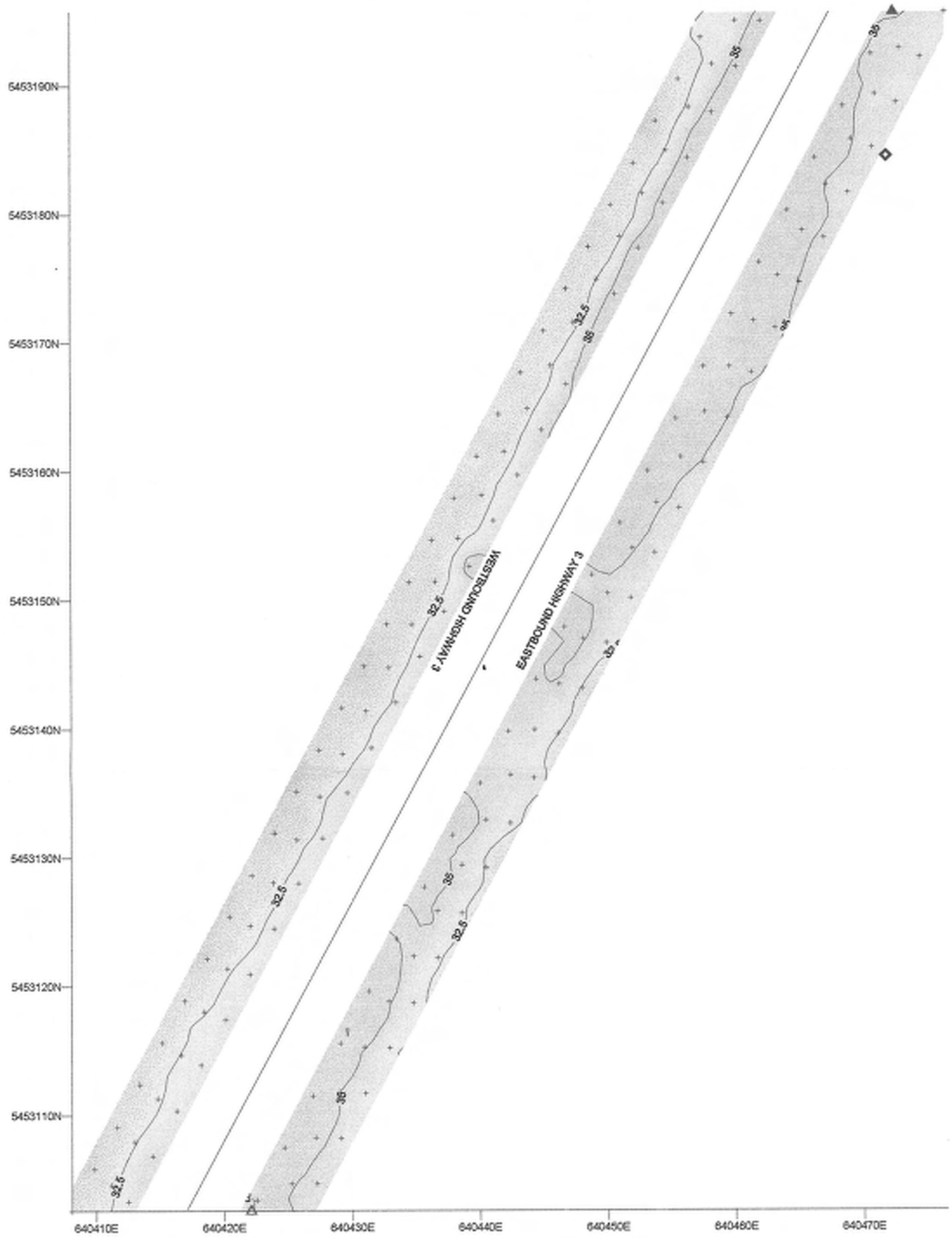
0 5 10 15 20
METRES

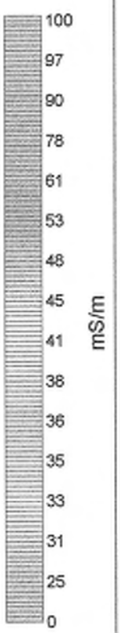
+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE SITE 3
FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 5

HORIZONTAL ORIENTATION





△ GPS 2A = 10U 640422, 5453102
▲ GPS 2B = 10U 640472, 5453195 NAD83

LEGEND

◇ SIGN - 80 KM/H

DOWNSLOPE ↘

0 5 10 15 20
METRES

\+ REPRESENTS EVERY FIFTH READING

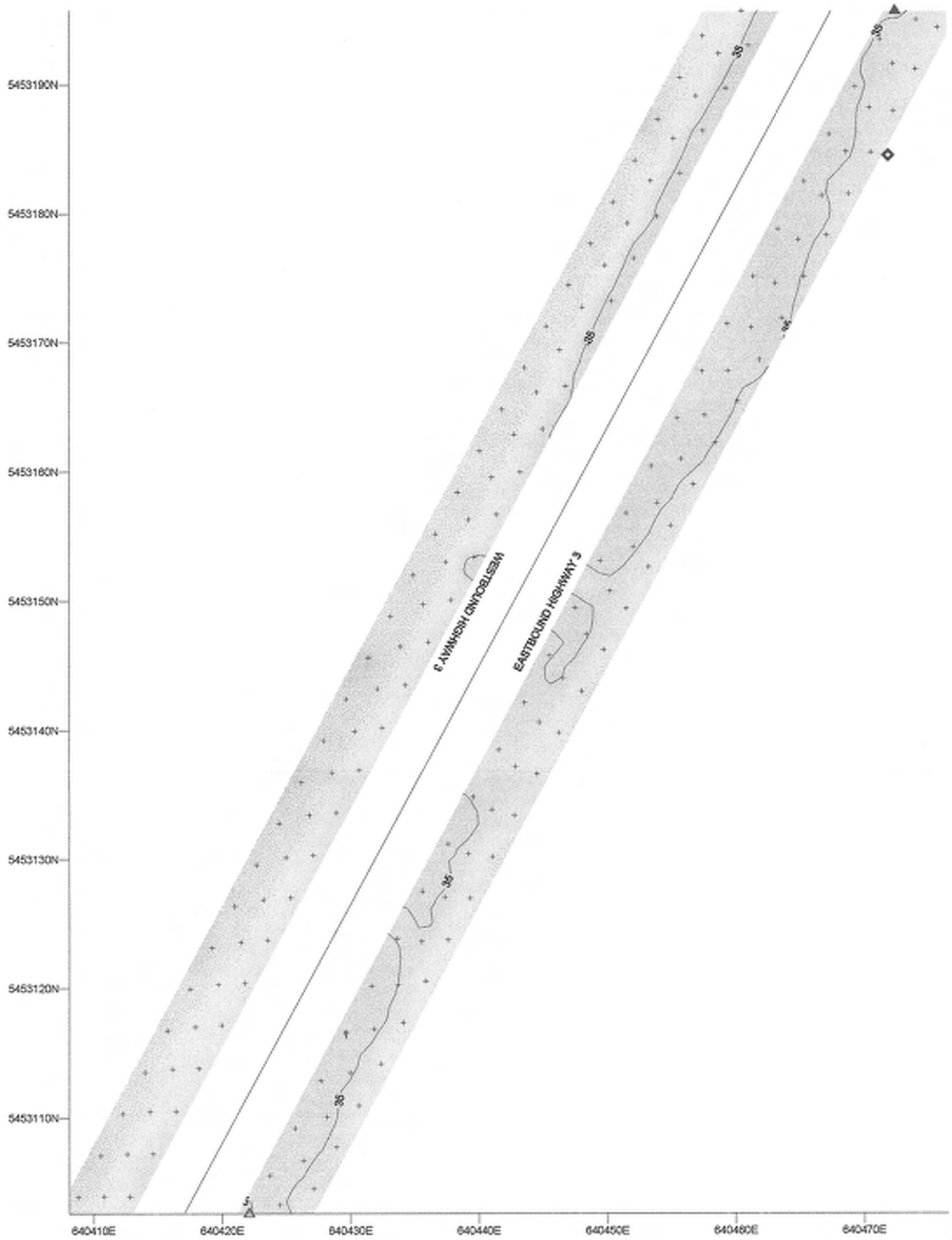
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY

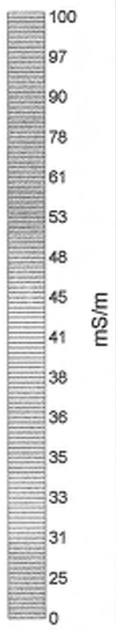
CONDUCTIVITY PROFILE SITE 2B

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 4

VERTICAL ORIENTATION





△ GPS 2A = 10U 640422, 5453102
▲ GPS 2B = 10U 640472, 5453195 NAD83

LEGEND

◇ SIGN - 80 KM/H

DOWNSLOPE ↘

0 5 10 15 20
METRES

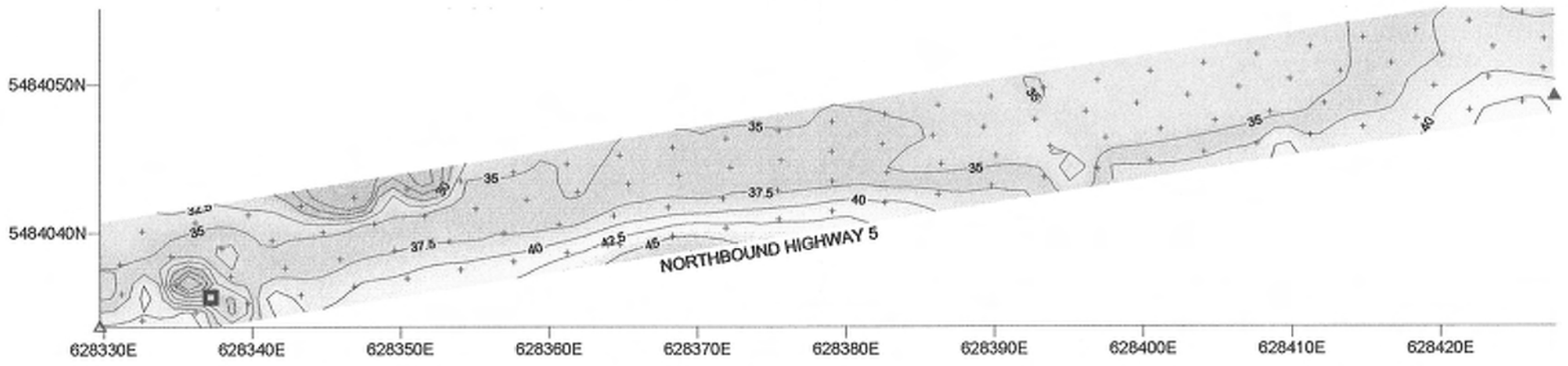
\+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE SITE 2A
FRONTIER GEOSCIENCES INC.

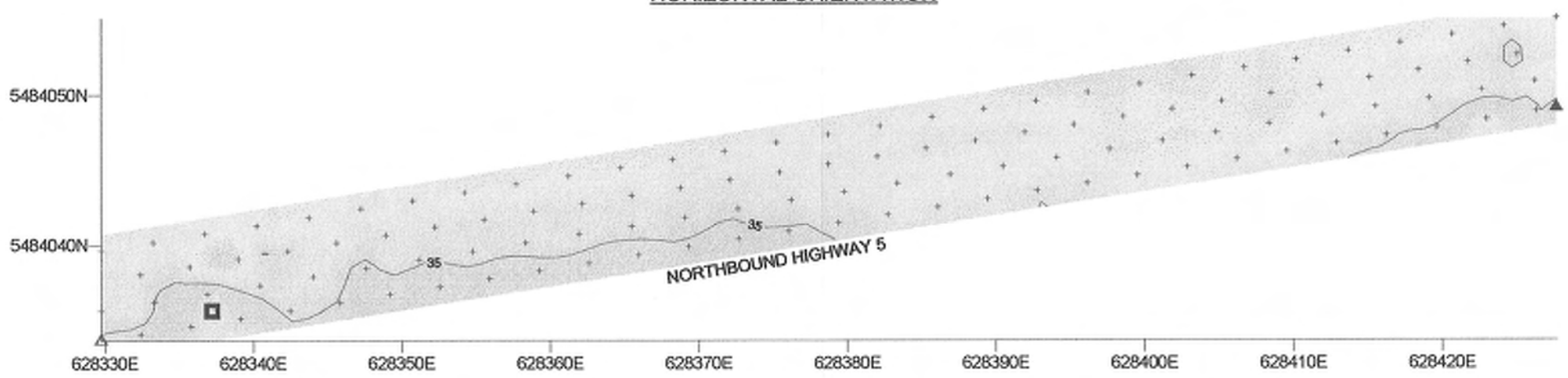
DATE: NOV. 2004	SCALE 1:400	FIG. 3

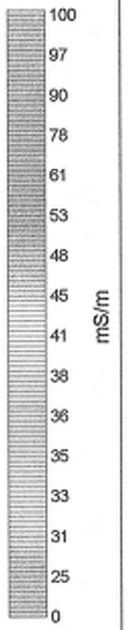
N

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 1A = 10U 628329, 5484033
▲ GPS 1B = 10U 628427, 5484049 NAD83

LEGEND
CULVERT

DOWNSLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

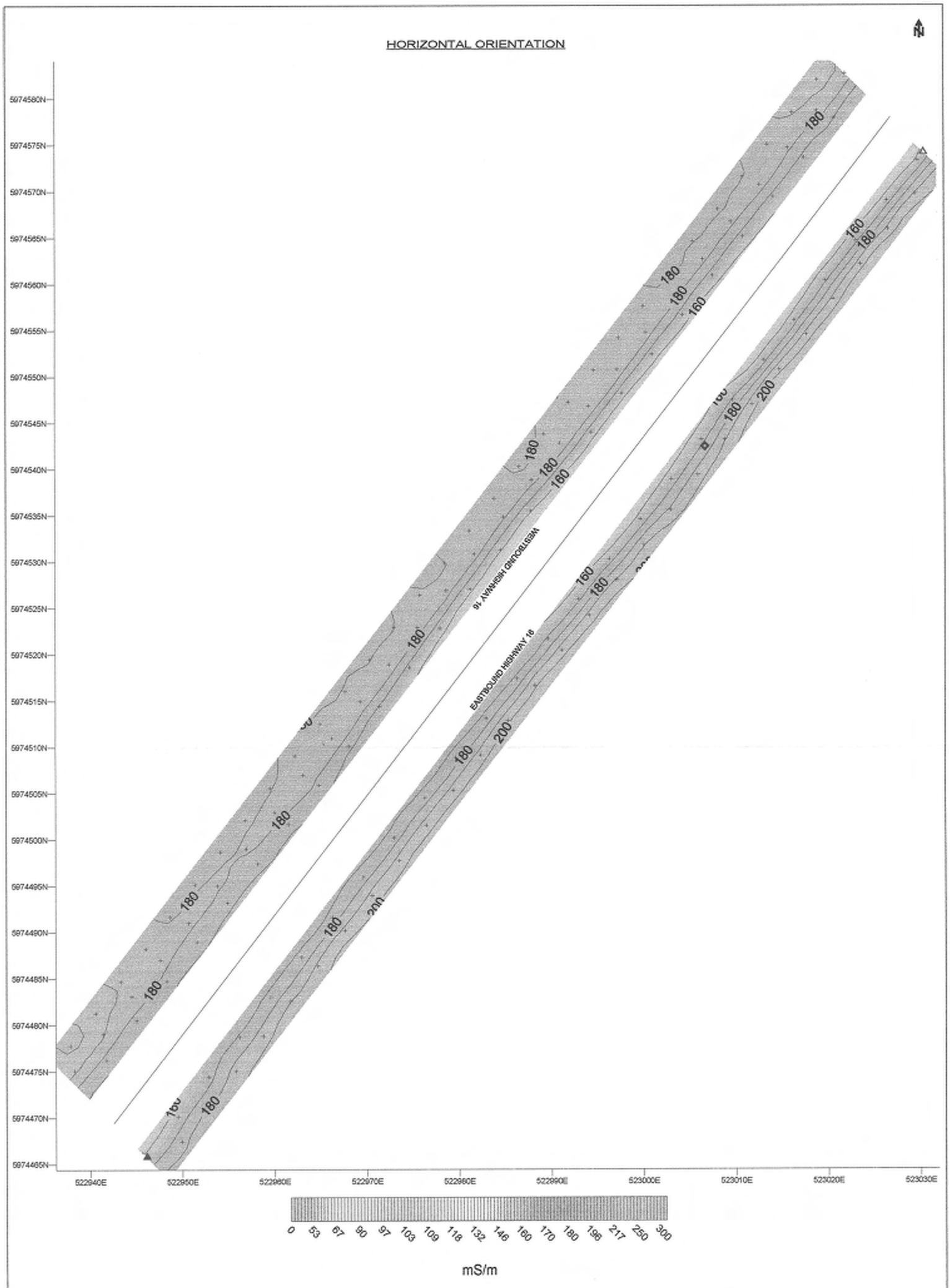
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE
SITE 1

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 2

JACQUES WHITFORD ENVIRONMENT LTD.		
BRITISH COLUMBIA HIGHWAYS		
EM-31 TERRRAIN CONDUCTIVITY SURVEY		
SURVEY LOCATION PLAN		
FRONTIER GEOSCIENCES INC.		
DATE: NOV. 2004	SCALE 1:2,500,000	FIG. 1



△ GPS 25A = 10U 523030, 5974574
▲ GPS 25B = 10U 522946, 5974465 NAD83

LEGEND

◇ SIGN - DO NOT PASS WHEN LIGHTS FLASHING

+ REPRESENTS EVERY FIFTH READING

DOWNSLOPE
NO SLOPE

0 5 10 15 20
METRES

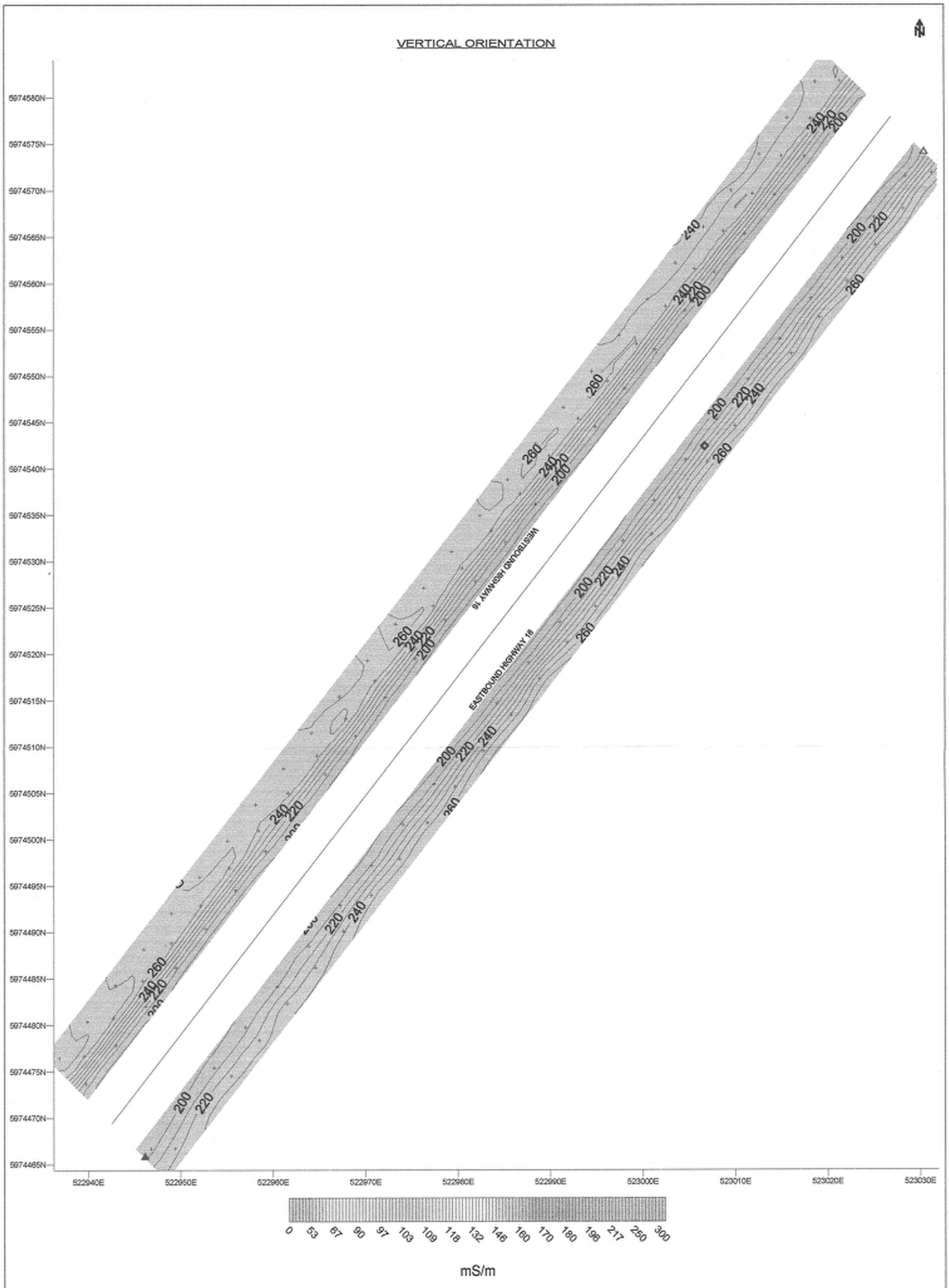
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 25B

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 31



△ GPS 25A = 10U 523030, 5974574
▲ GPS 25B = 10U 522946, 5974465 NAD83

LEGEND

◇ SIGN - DO NOT PASS WHEN LIGHTS FLASHING

DOWNSLOPE
NO SLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

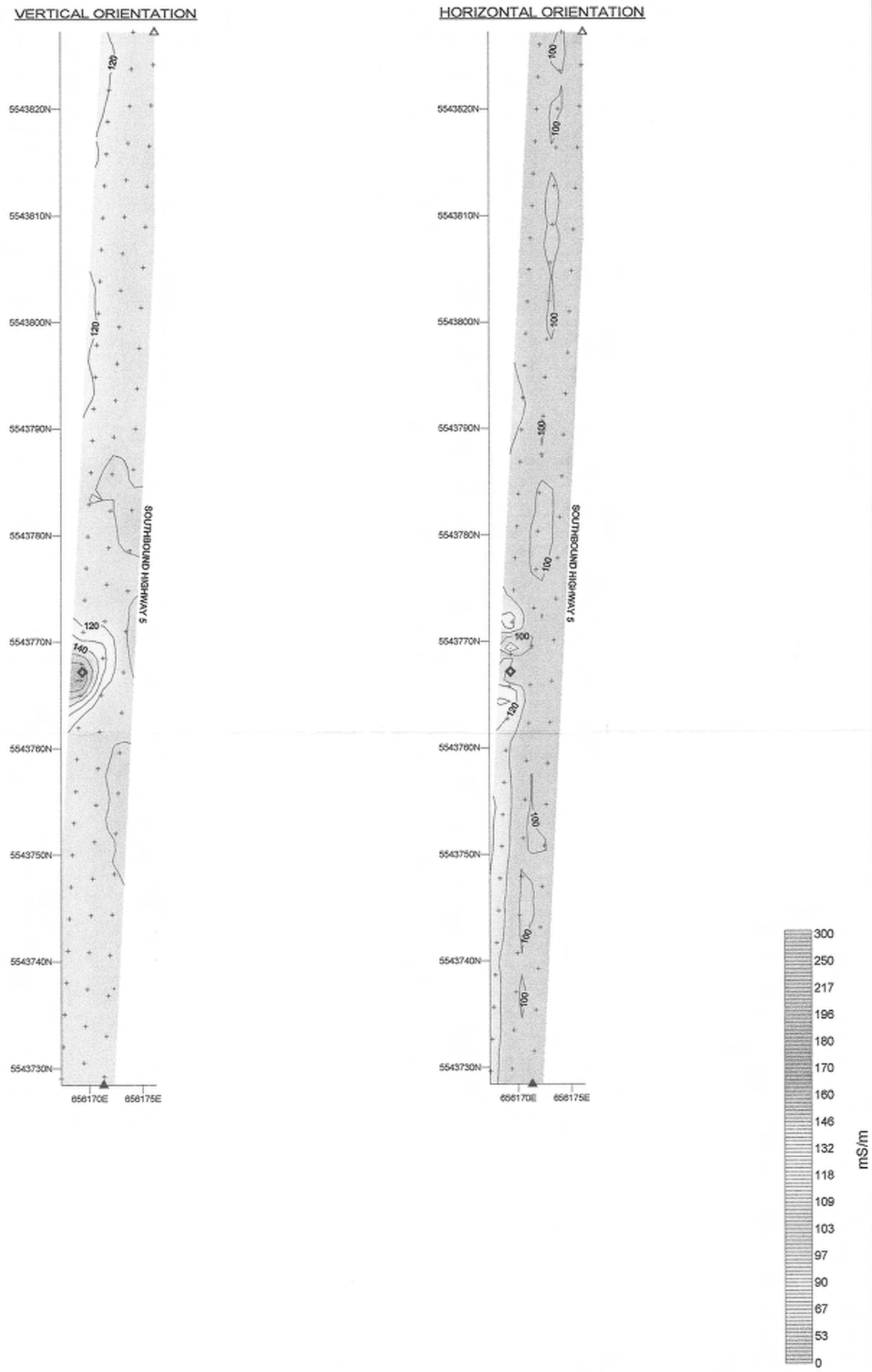
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 25A

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 30



△ GPS 24A = 10U 656176, 5543827
▲ GPS 24B = 10U 656171, 5543728 NAD83

LEGEND

◇ SIGN - HOPE, VANCOUVER

DOWNSLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

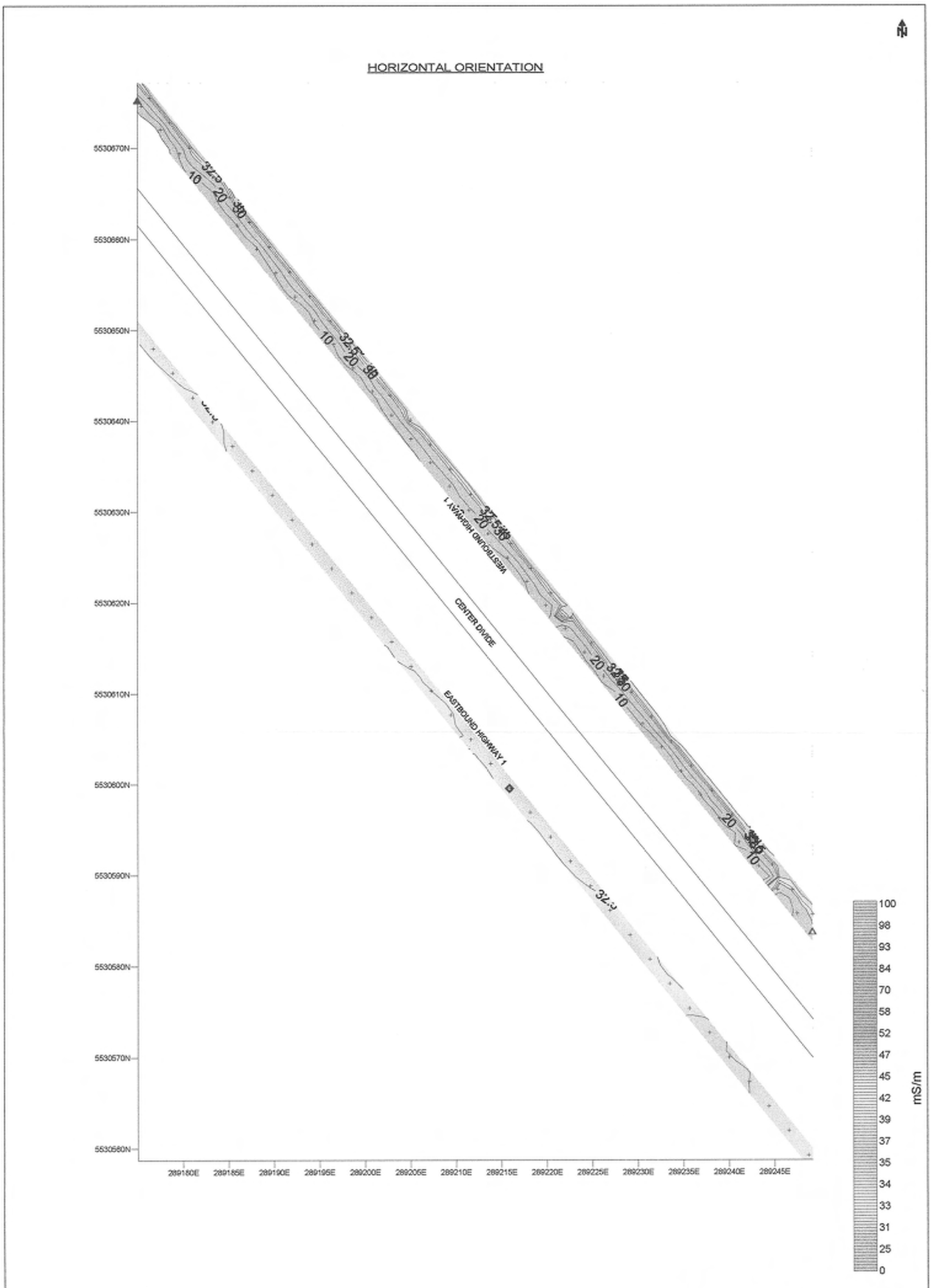
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

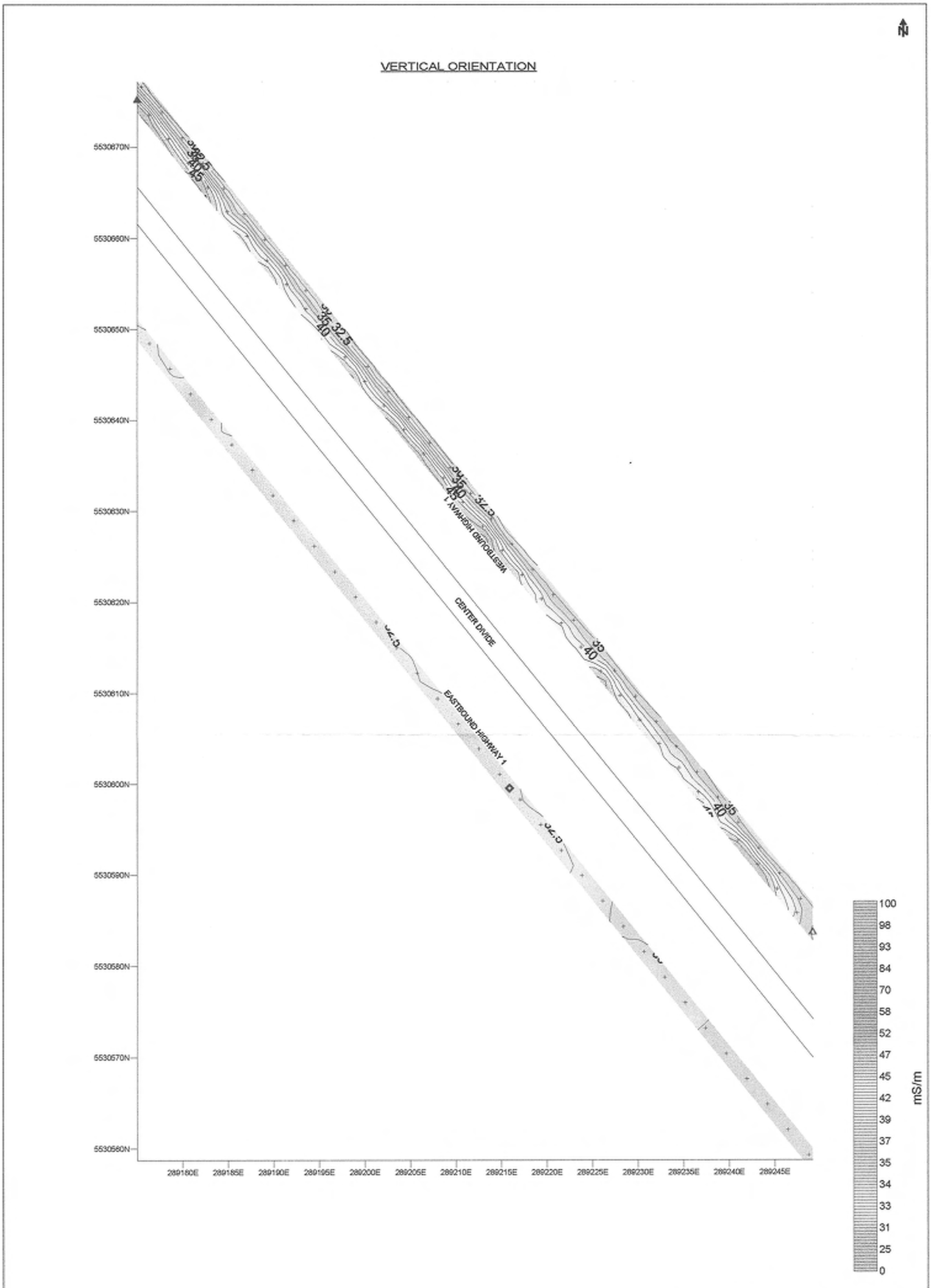
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 24

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 29


N
HORIZONTAL ORIENTATION
5530670N
5530660N
5530650N
5530640N
5530630N
5530620N
5530610N
5530600N
5530590N
5530580N
5530570N
5530560N
289180E
289185E
289190E
289195E
289200E
289205E
289210E
289215E
289220E
289225E
289230E
289235E
289240E
289245E
WESTBOUND HIGHWAY 1
CENTER DIVIDE
EASTBOUND HIGHWAY 1
100
98
93
84
70
58
52
47
45
42
39
37
35
34
33
31
25
0
mS/m
GPS 23A = 11U 289249, 5530583
GPS 23B = 11U 289175, 5530675
NAD83
LEGEND
SIGN - BRENDA MINE RD CHAIN OFF AREA EXIT 2.2 KM
DOWNSLOPE
0 5 10 15 20
METRES
+ REPRESENTS EVERY FIFTH READING
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE
SITE 23B
FRONTIER GEOSCIENCES INC.
DATE: NOV. 2004
SCALE 1:400
FIG. 28



△ GPS 23A = 11U 289249, 5530583
▲ GPS 23B = 11U 289175, 5530675 NAD83

LEGEND

◇ SIGN - BRENDA MINE RD CHAIN OFF AREA EXIT 2.2 KM

DOWNSLOPE

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

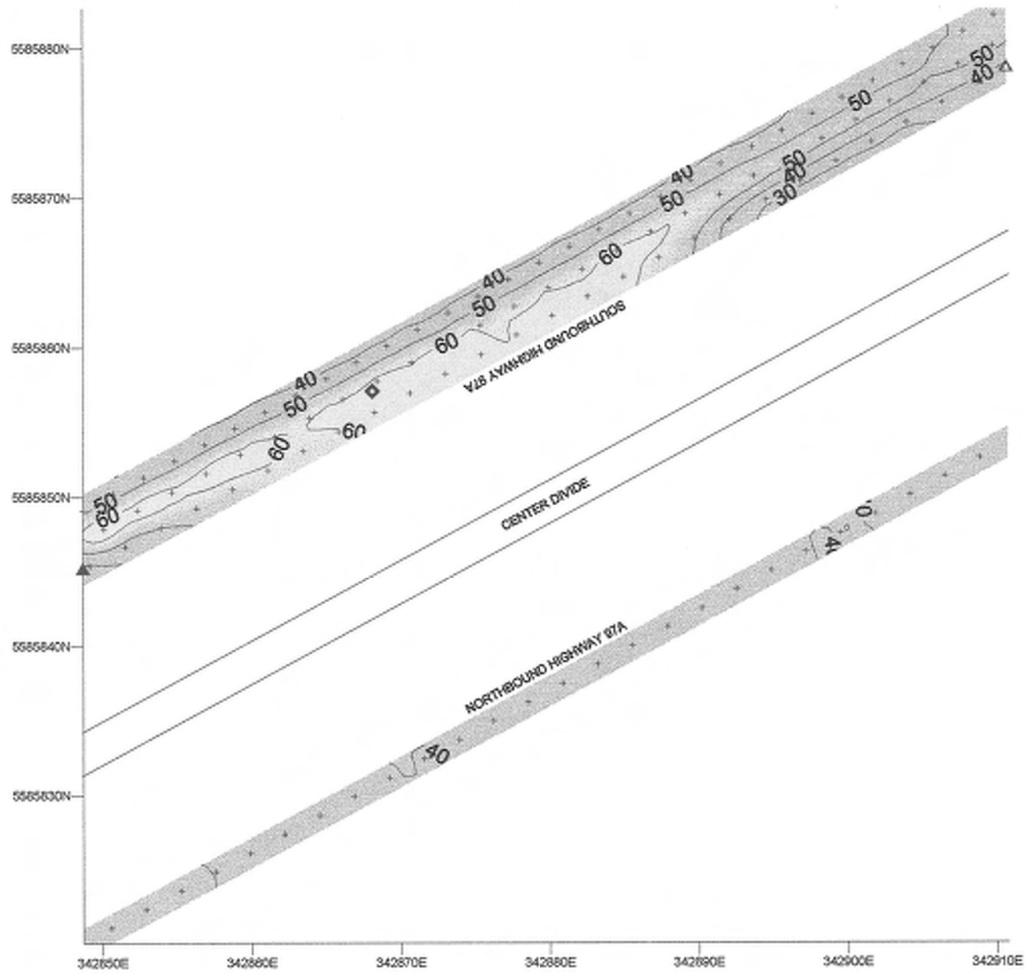
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 23A

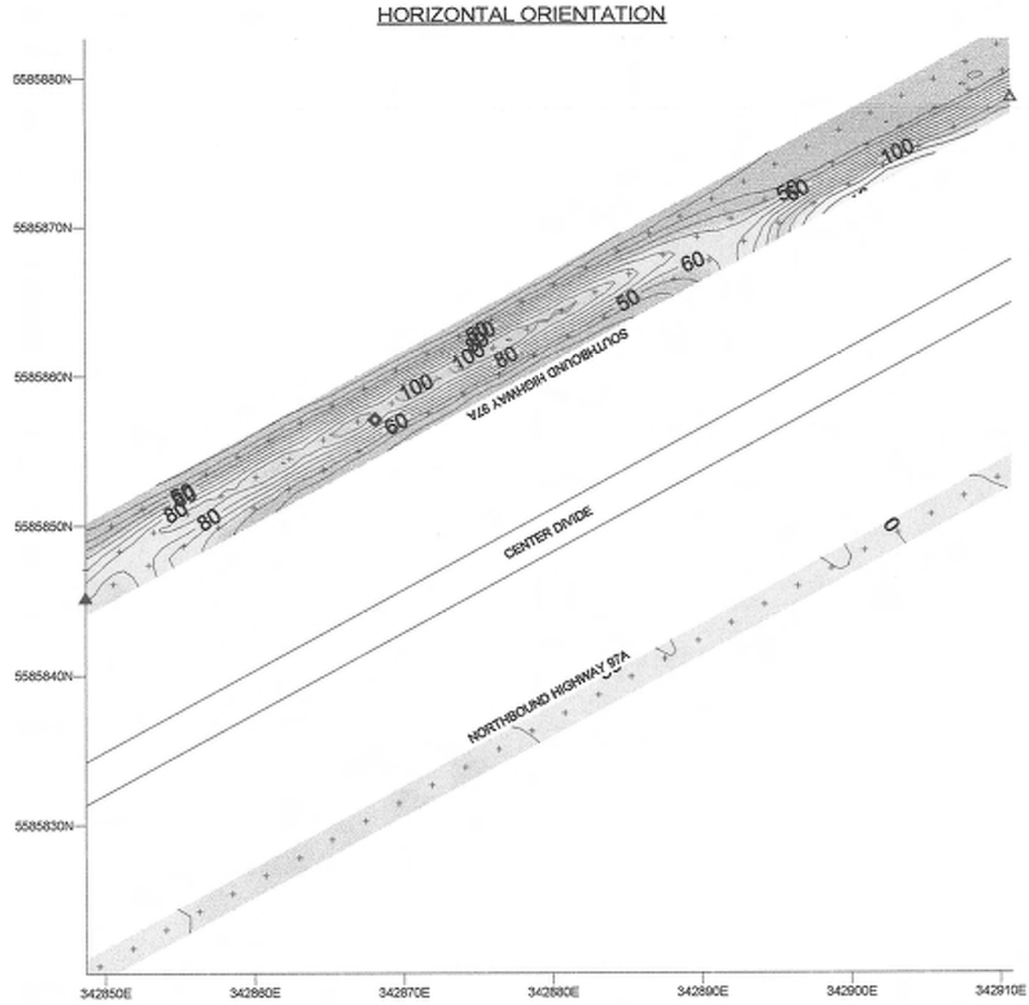
FRONTIER GEOSCIENCES INC.

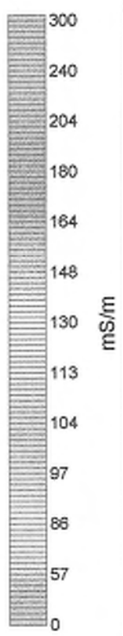
DATE: NOV. 2004	SCALE 1:400	FIG. 27

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 22A = 11U 342910, 5585878
▲ GPS 22B = 11U 342848, 5585845 NAD83

LEGEND

◇ SIGN - DO NOT PASS WHEN LIGHTS FLASHING

+ REPRESENTS EVERY FIFTH READING

DOWNSLOPE

0 5 10 15 20
METRES

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

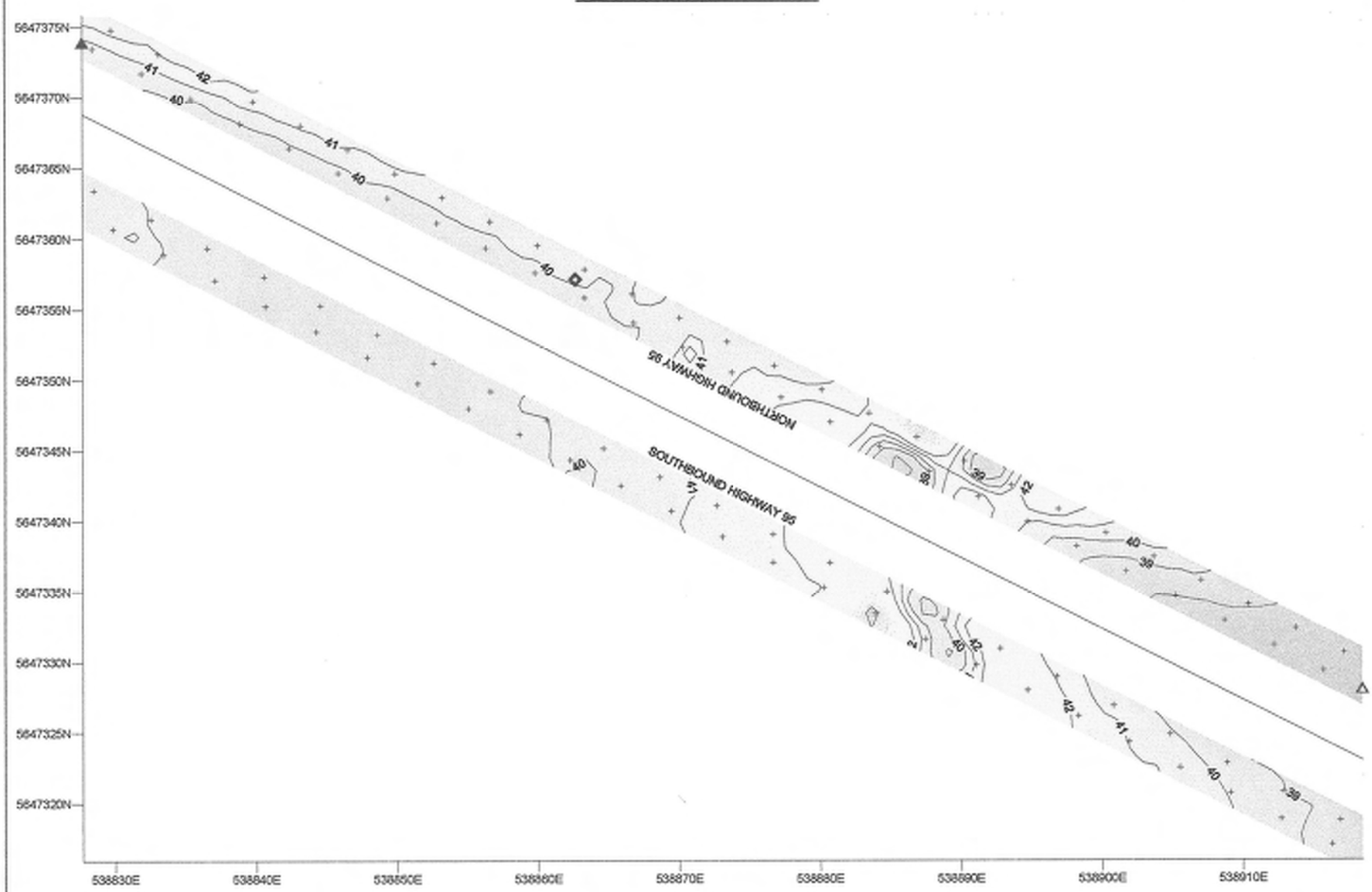
EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE
SITE 22

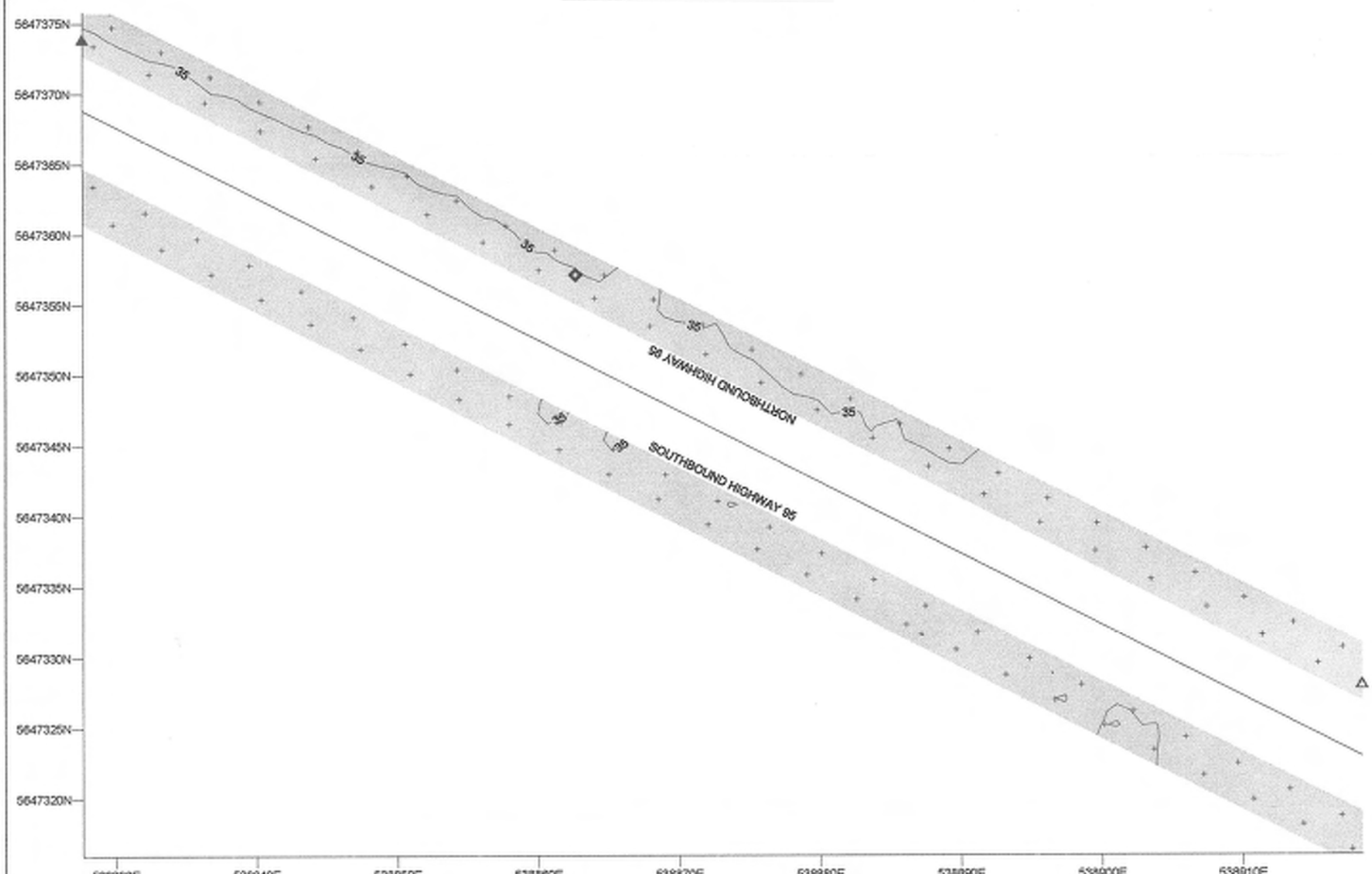
FRONTIER GEOSCIENCES INC.

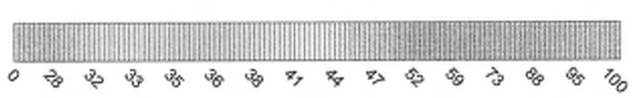
DATE: NOV. 2004	SCALE 1:400	FIG. 26

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





mS/m

△ GPS 21A = 11U 538918, 5647327
▲ GPS 21B = 11U 538827, 5647373 NAD83

LEGEND

◇ SIGN - PASSING LANE 2 KM AHEAD

DOWNSLOPE

NO SLOPE

0 5 10 15 20

METRES

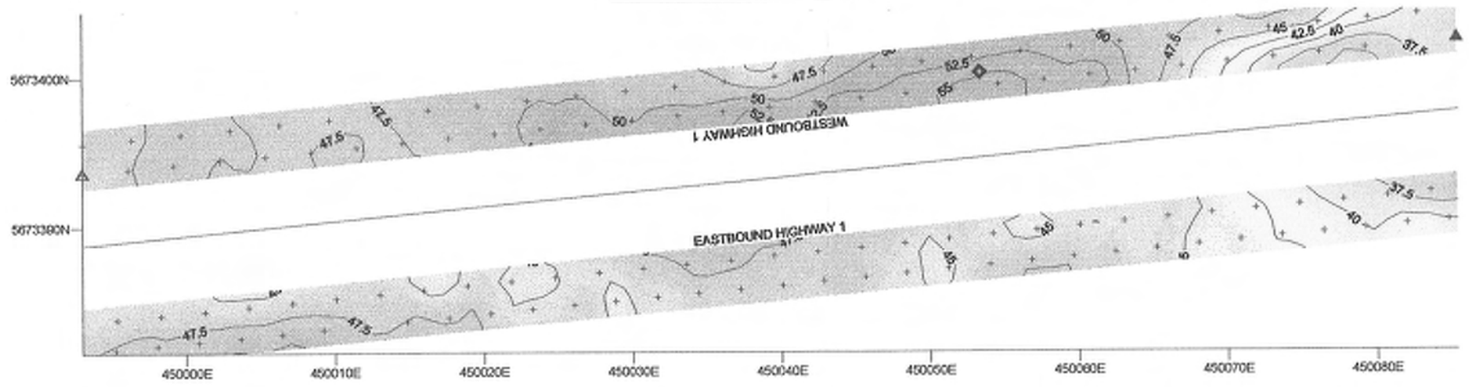
+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE SITE 21
FRONTIER GEOSCIENCES INC.

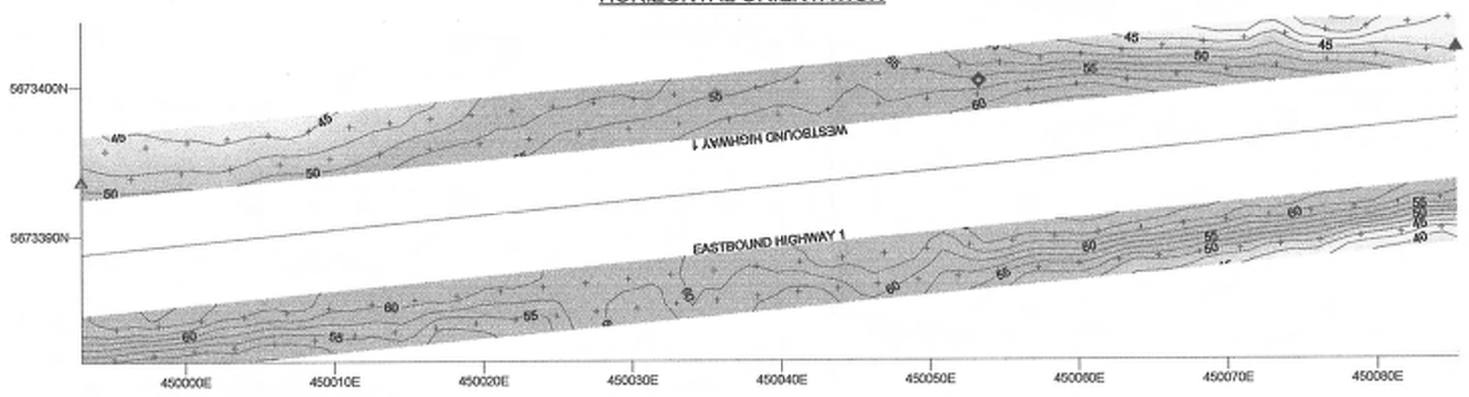
DATE: NOV. 2004	SCALE 1:400	FIG. 25

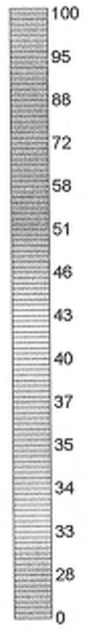
N

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





△ GPS 20A = 11U 449993, 5673393
▲ GPS 20B = 11U 450085, 5673402 NAD83

LEGEND

◇ SIGN - REVELSTOKE 50 KM

DOWNSLOPE
NO SLOPE

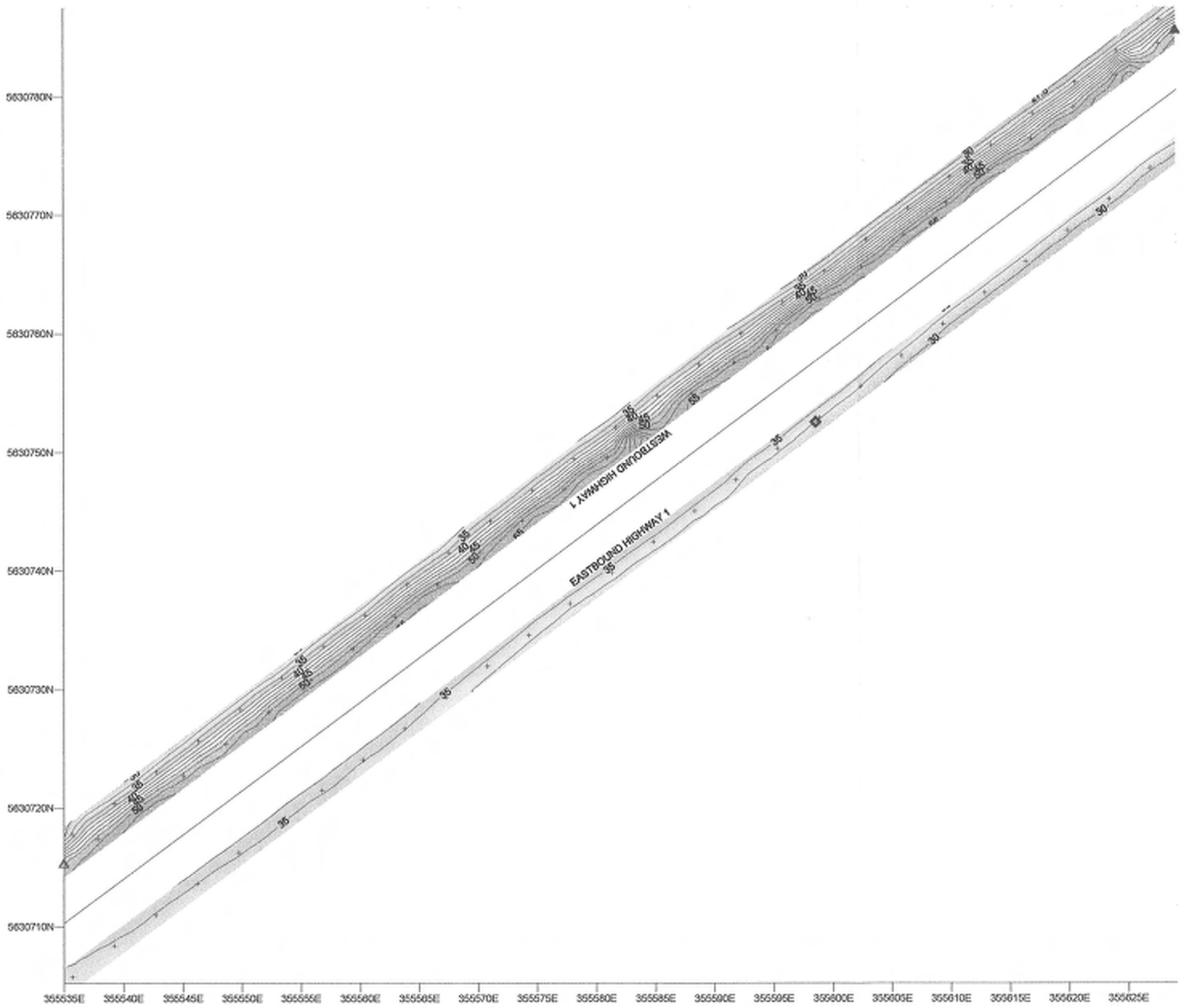
0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE SITE 20
FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 24

HORIZONTAL ORIENTATION



N

100
95
88
72
58
51
46
43
40
37
35
34
33
29
0
mS/m

DOWNSLOPE

LEGEND

◇ SIGN - REST AREA 400 M

△ GPS 19A = 11U 355534, 5630715
▲ GPS 19B = 11U 355629, 5630785 NAD83

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

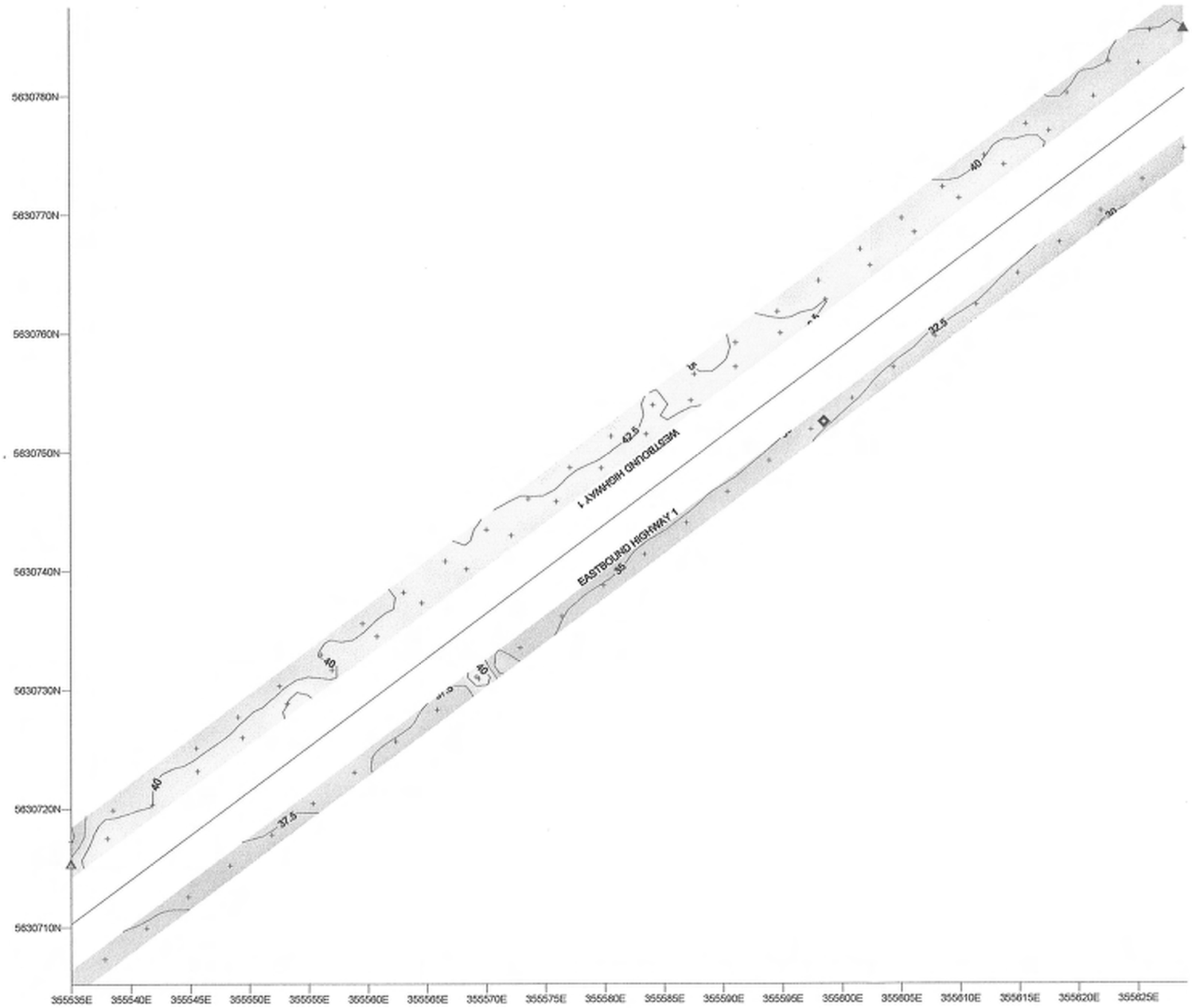
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY

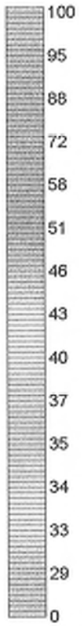
CONDUCTIVITY PROFILE
SITE 19B

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 23

VERTICAL ORIENTATION





DOWNSLOPE

LEGEND

◇ SIGN - REST AREA 400 M

0 5 10 15 20

METRES

△ GPS 19A = 11U 355534, 5630715

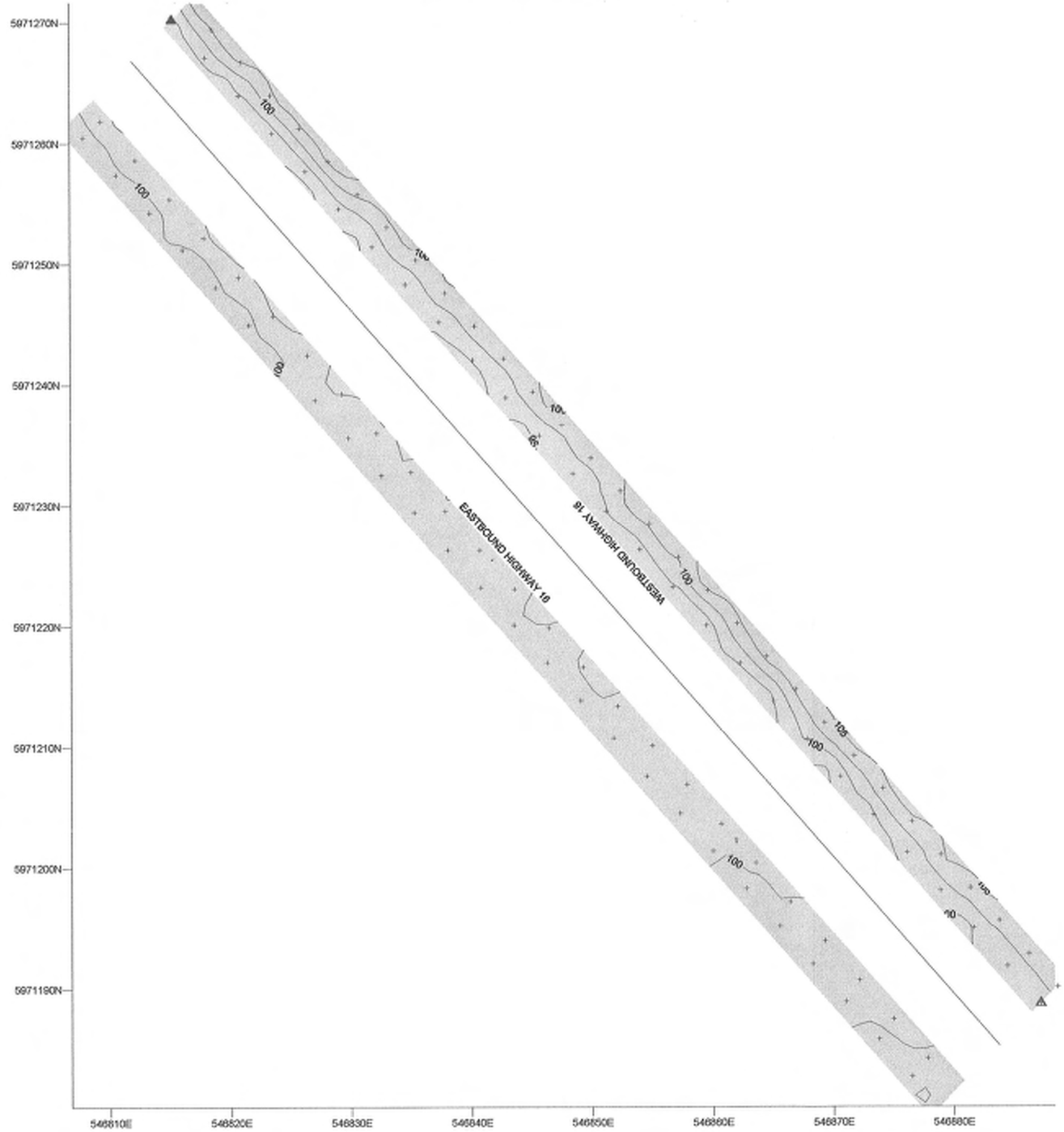
▲ GPS 19B = 11U 355629, 5630785 NAD83

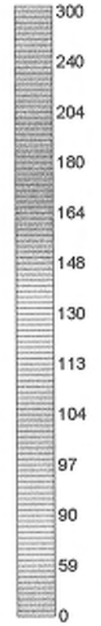
JACQUES WHITFORD ENVIRONMENT LTD. BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE SITE 19A
FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 22

+ REPRESENTS EVERY FIFTH READING

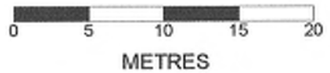
HORIZONTAL ORIENTATION





DOWNSLOPE

△ GPS 18A = 10U 546887, 5971188
▲ GPS 18B = 10U 546815, 5971270 NAD83



JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

EM-31 TERRAIN CONDUCTIVITY SURVEY

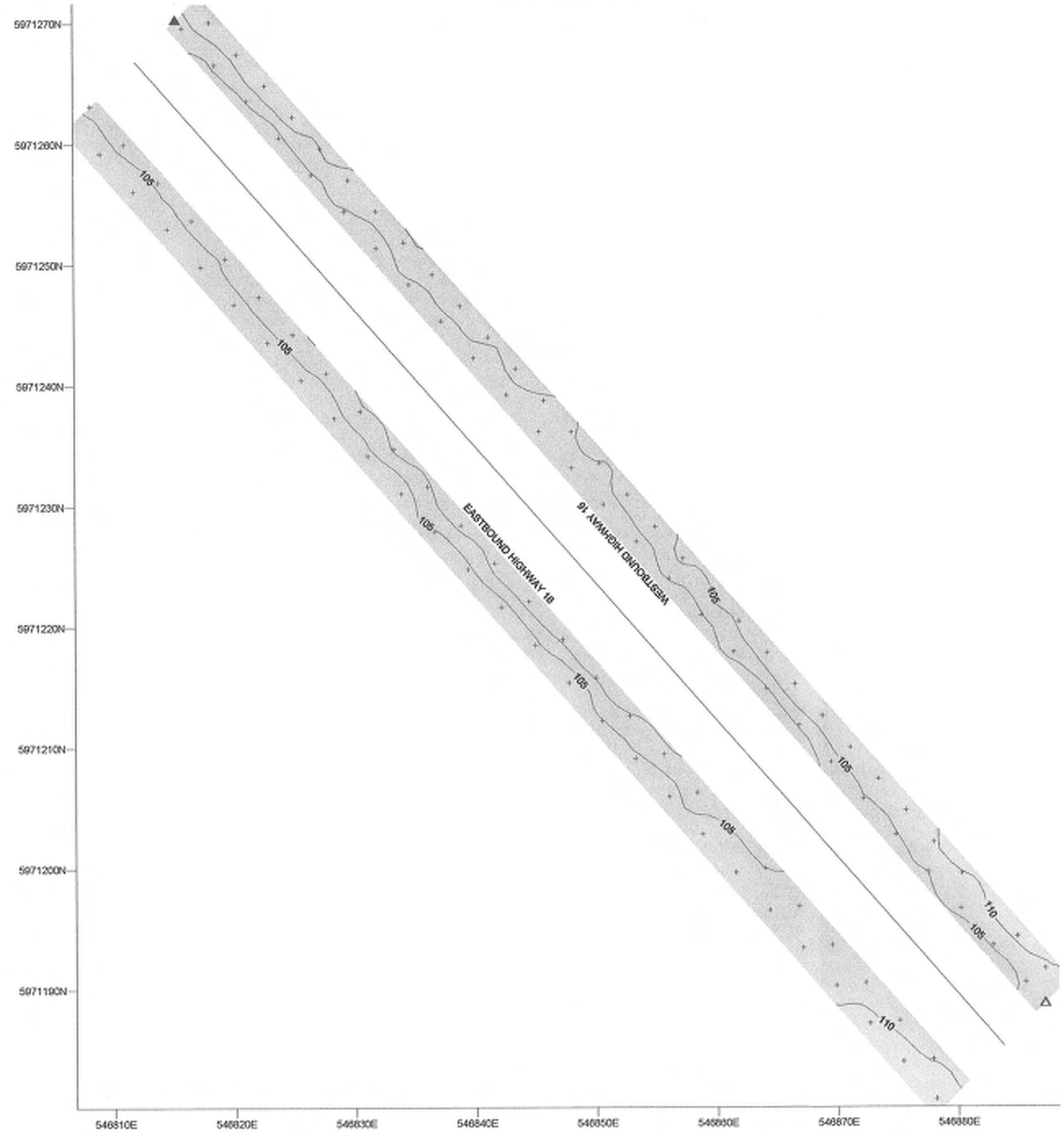
CONDUCTIVITY PROFILE
SITE 18B

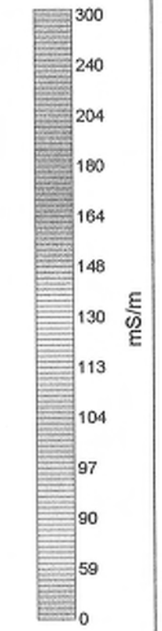
FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 21

+ REPRESENTS EVERY FIFTH READING

VERTICAL ORIENTATION





DOWNSLOPE

△ GPS 18A = 10U 546887, 5971188
▲ GPS 18B = 10U 546815, 5971270 NAD83

0 5 10 15 20
METRES

JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

EM-31 TERRAIN CONDUCTIVITY SURVEY

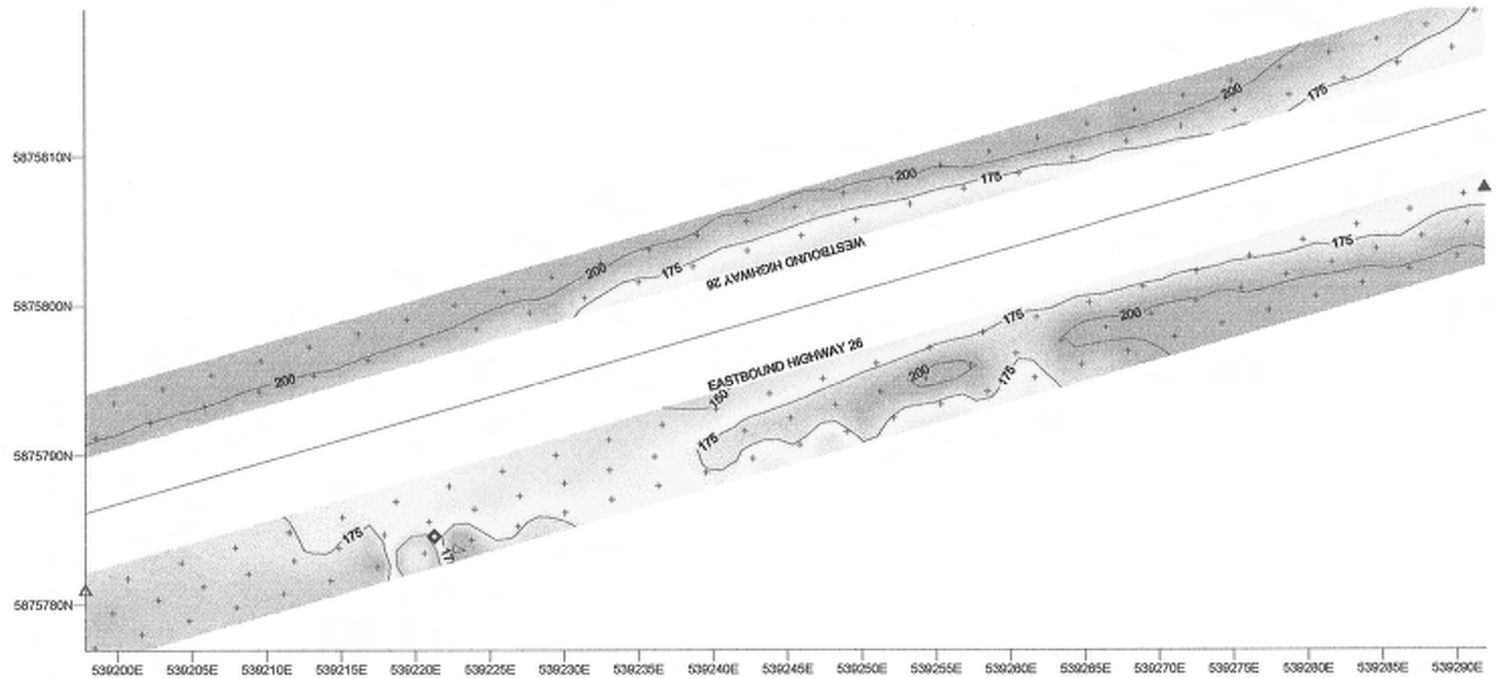
CONDUCTIVITY PROFILE
SITE 18A

FRONTIER GEOSCIENCES INC.

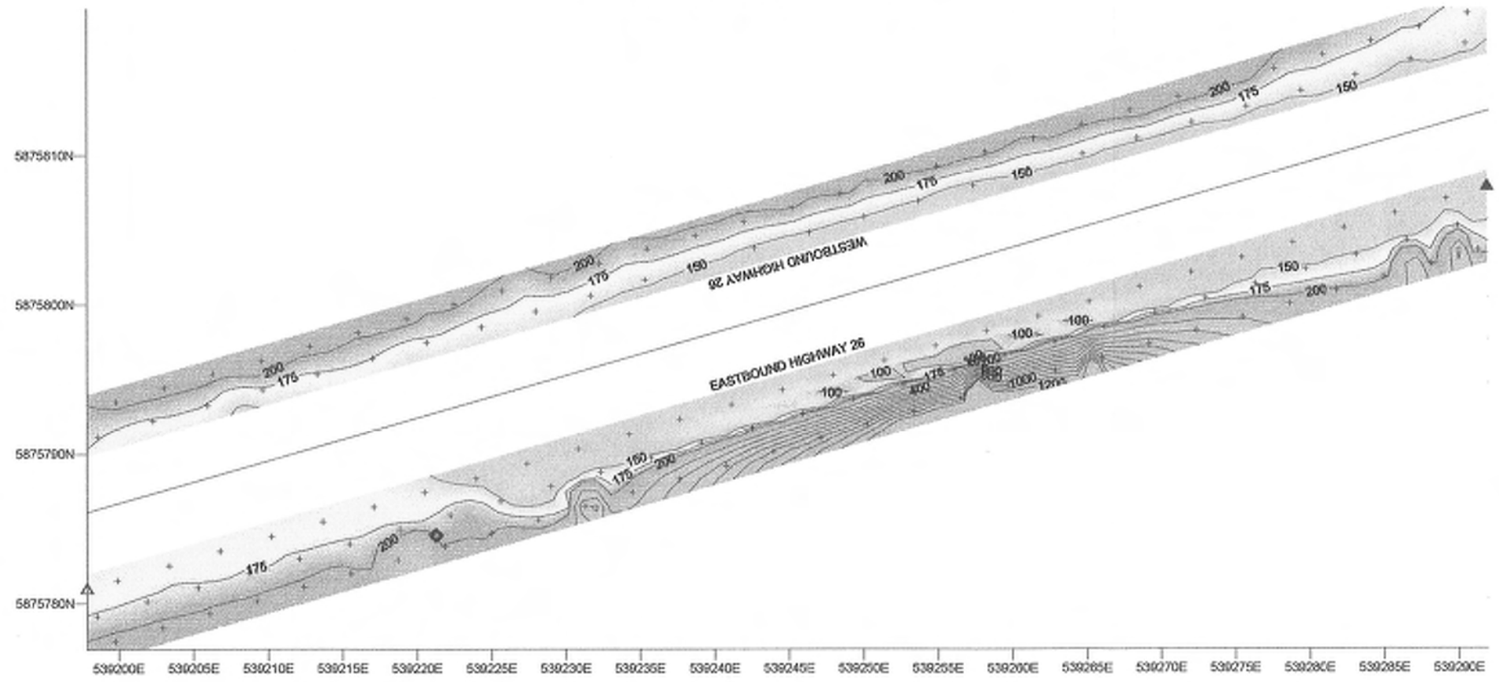
DATE: NOV. 2004	SCALE 1:400	FIG. 20

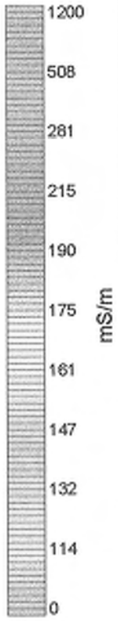
+ REPRESENTS EVERY FIFTH READING

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION





DOWNSLOPE

LEGEND

◇ SIGN - HISTORIC COTTOWNWOOD HOUSE 20 KM AHEAD

△ GPS 17A = 10U 539197, 5875780
▲ GPS 17B = 10U 539291, 5875807 NAD83

0 5 10 15 20
METRES

+ REPRESENTS EVERY FIFTH READING

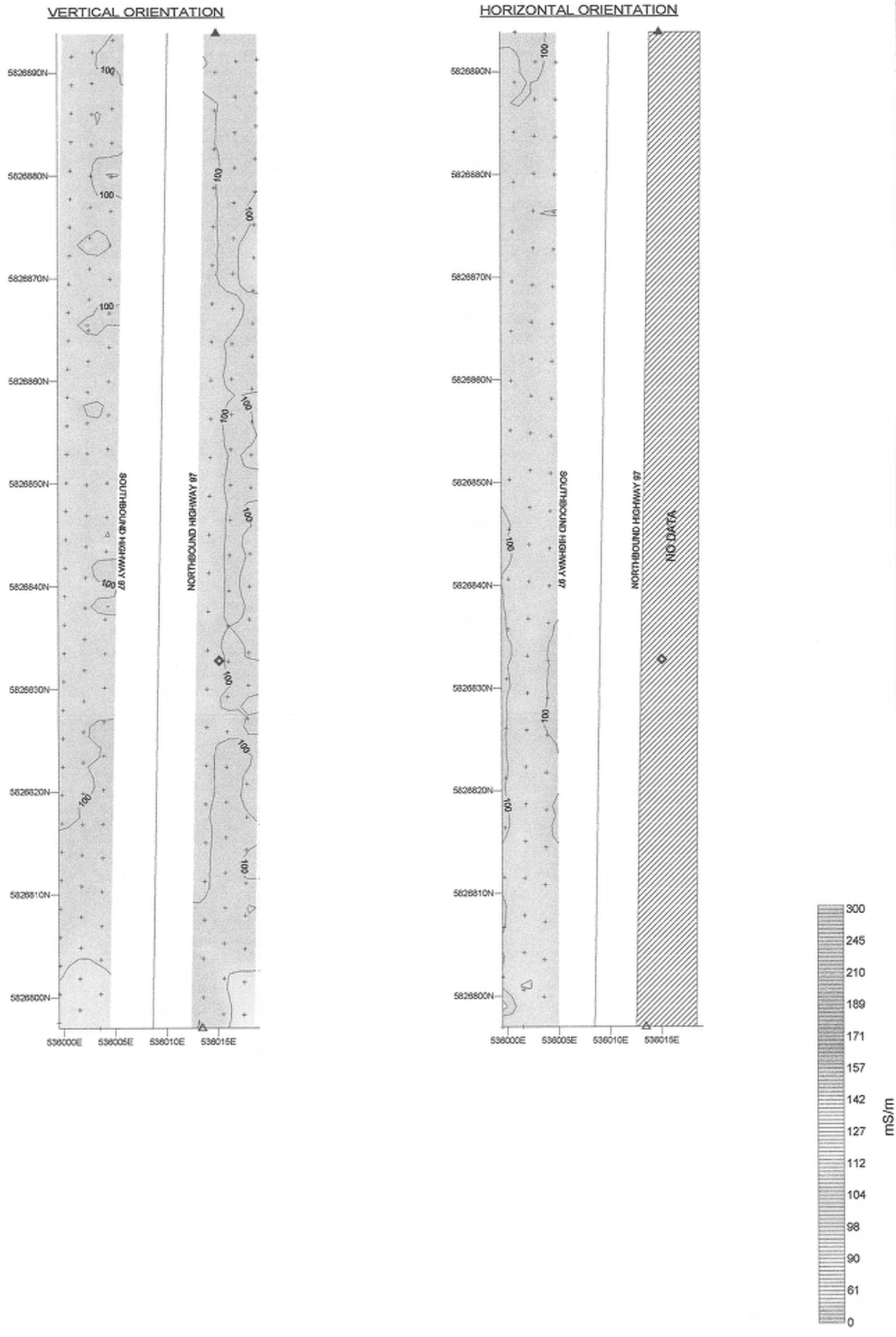
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS

EM-31 TERRAIN CONDUCTIVITY SURVEY

CONDUCTIVITY PROFILE SITE 17

FRONTIER GEOSCIENCES INC.

DATE: NOV. 2004	SCALE 1:400	FIG. 19

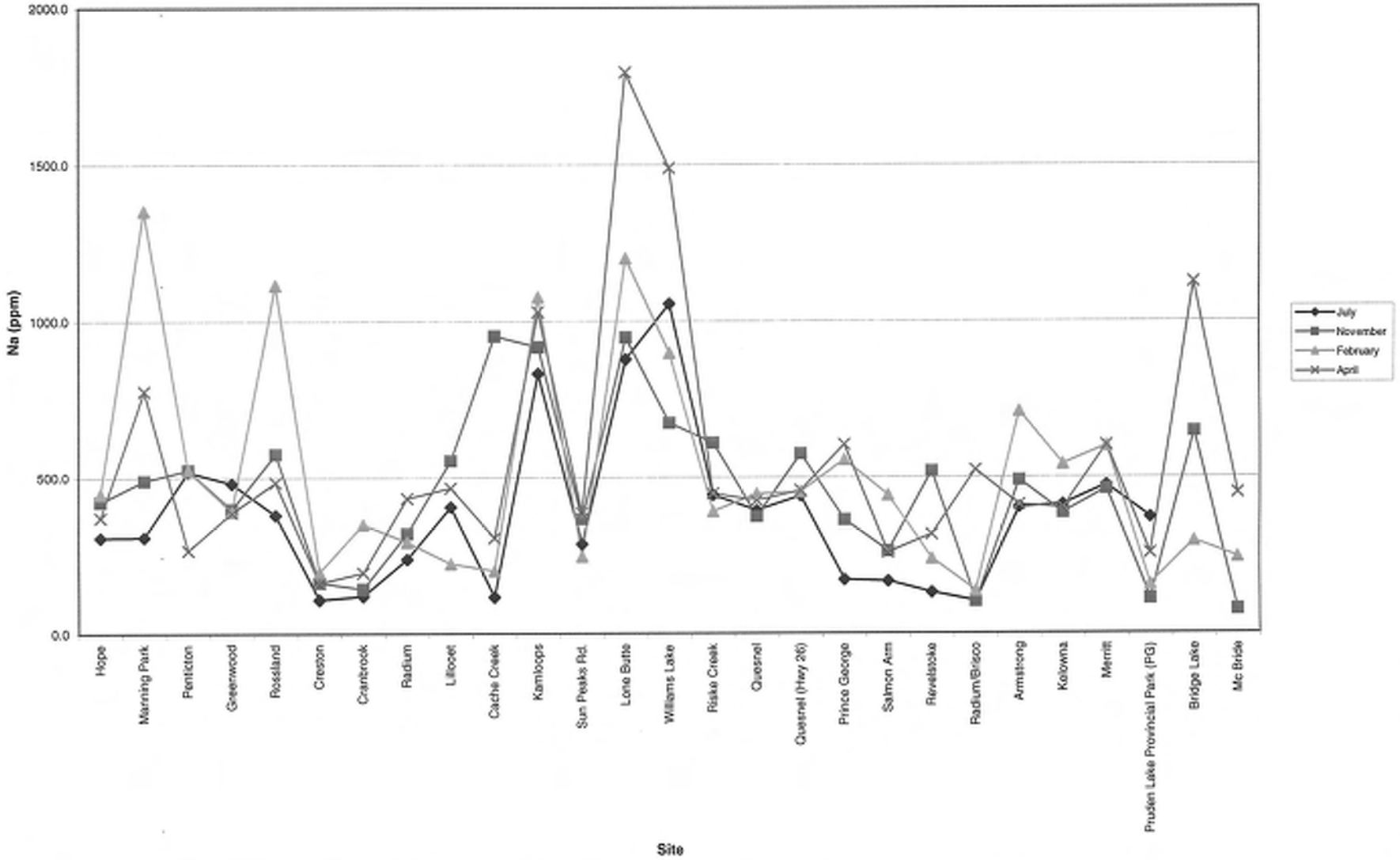

VERTICAL ORIENTATION
HORIZONTAL ORIENTATION
5826890N
5826880N
5826870N
5826860N
5826850N
5826840N
5826830N
5826820N
5826810N
5826800N
536000E
536005E
536010E
536015E
SOUTHBOUND HIGHWAY 97
NORTHBOUND HIGHWAY 97
NO DATA
100
300
245
210
189
171
157
142
127
112
104
98
90
81
0
mS/m
GPS 16A = 10U 536013, 5826796
GPS 16B = 10U 536014, 5826893
NAD83
LEGEND
SIGN - PASSING LANE 2 KM AHEAD
DOWNSLOPE
0 5 10 15 20
METRES
REPRESENTS EVERY FIFTH READING
JACQUES WHITFORD ENVIRONMENT LTD.
BRITISH COLUMBIA HIGHWAYS
EM-31 TERRAIN CONDUCTIVITY SURVEY
CONDUCTIVITY PROFILE
SITE 16
FRONTIER GEOSCIENCES INC.
DATE: NOV. 2004
SCALE 1:400
FIG. 16

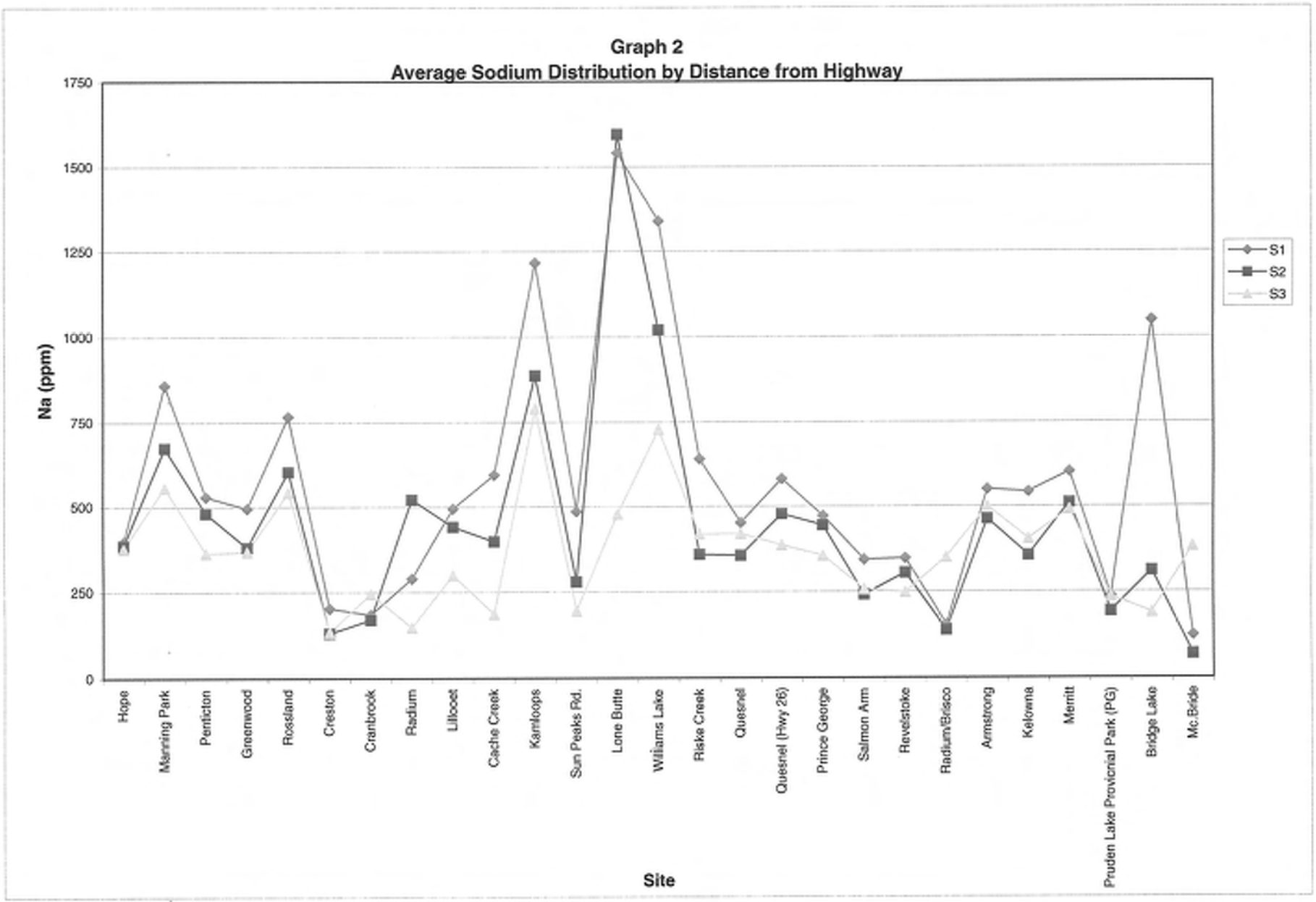
APPENDIX H

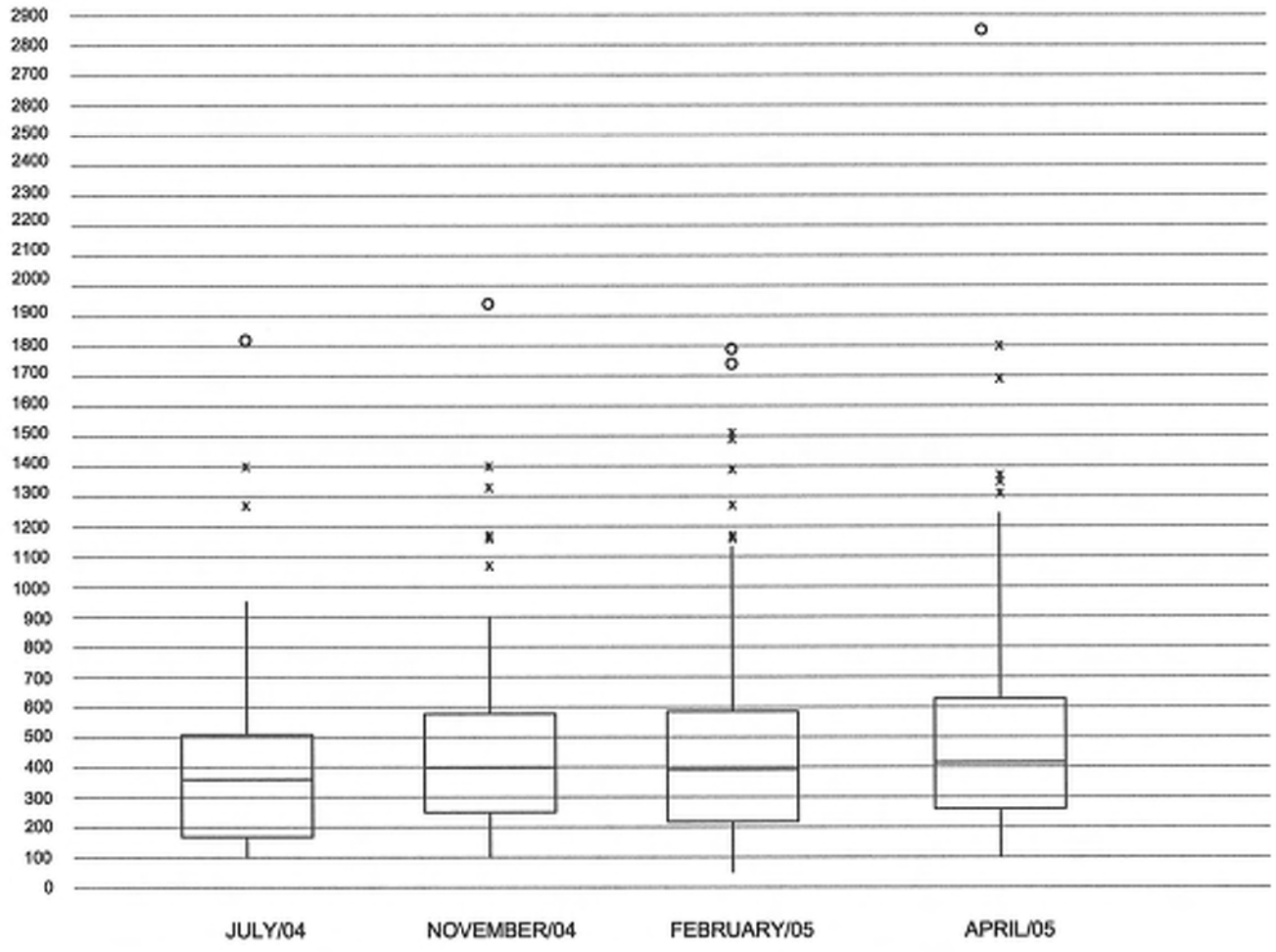
Distribution Concentration Graphs and Box Plots

Jacques Whitford © 2005

Graph 1
Average Sodium Concentration Distribution

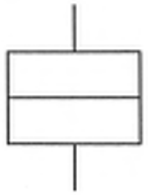



Graph 2
Average Sodium Distribution by Distance from Highway
Na (ppm)
1750
1500
1250
1000
750
500
250
0
S1
S2
S3
Hope
Manning Park
Penticton
Greenwood
Rossland
Creston
Cranbrook
Radium
Lillooet
Cache Creek
Kamloops
Sun Peaks Rd.
Lone Butte
Williams Lake
Riske Creek
Quesnel
Quesnel (Hwy 26)
Prince George
Salmon Arm
Revelstoke
Radium/Brisco
Armstrong
Kelowna
Merritt
Pruden Lake Provincial Park (PG)
Bridge Lake
Mc.Bride
Site



LEGEND

- o DETACHED VALUE(1)
- x OUTSIDE VALUE(2)
- UPPER WHISKER(3)
- 75th PERCENTILE
- MEDIAN
- 25th PERCENTILE
- LOWER WHISKER(3)



(1) A detached value is defined as a value that is greater than 3 times the interquartile range (beyond the box)
(2)An outside value is defined as greater than1.5 and less than or equal to 3 interquartile ranges plus from the box
(3)Upper whisker is defined as the largest data point less than or equal to the upper quartile plus 1.5 times the interquatile range. Lower whisker is within 1.5 times the interquartile range less than the lower quartile

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Jacques Whitford

CLIENT: MINISTRY OF TRANSPORTATION

PROJECT No: BCV61843 | DATE: 16-Nov-05

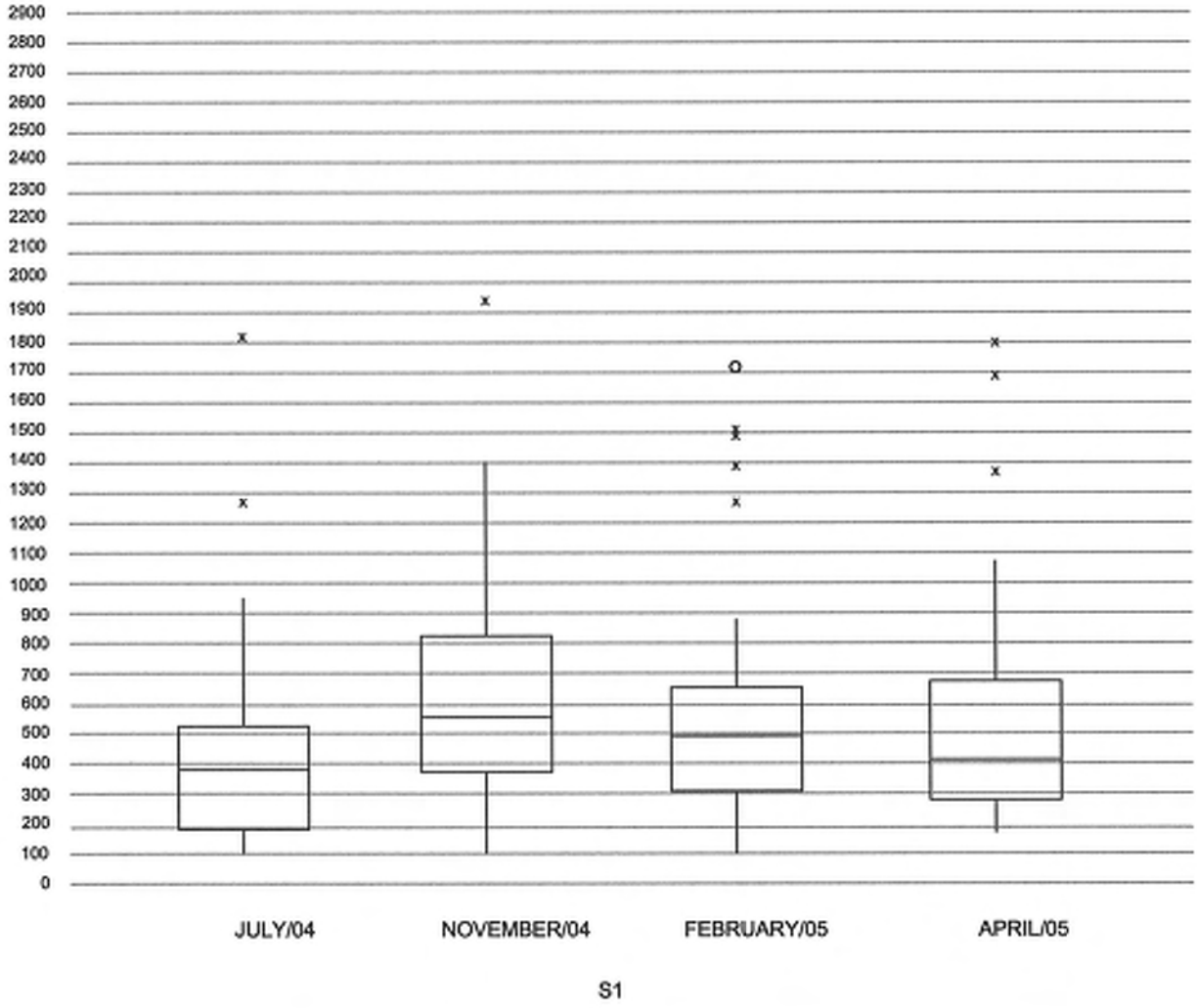
DRAWN BY: LM | CHECKED BY:

SODIUM / MONTH
SALT IN ROADSIDE SOILS SAMPLING PROGRAM

DWG No: 3

FILENAME: 2004\EE\BCV61843\BCV61843 Sodium Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR



S1

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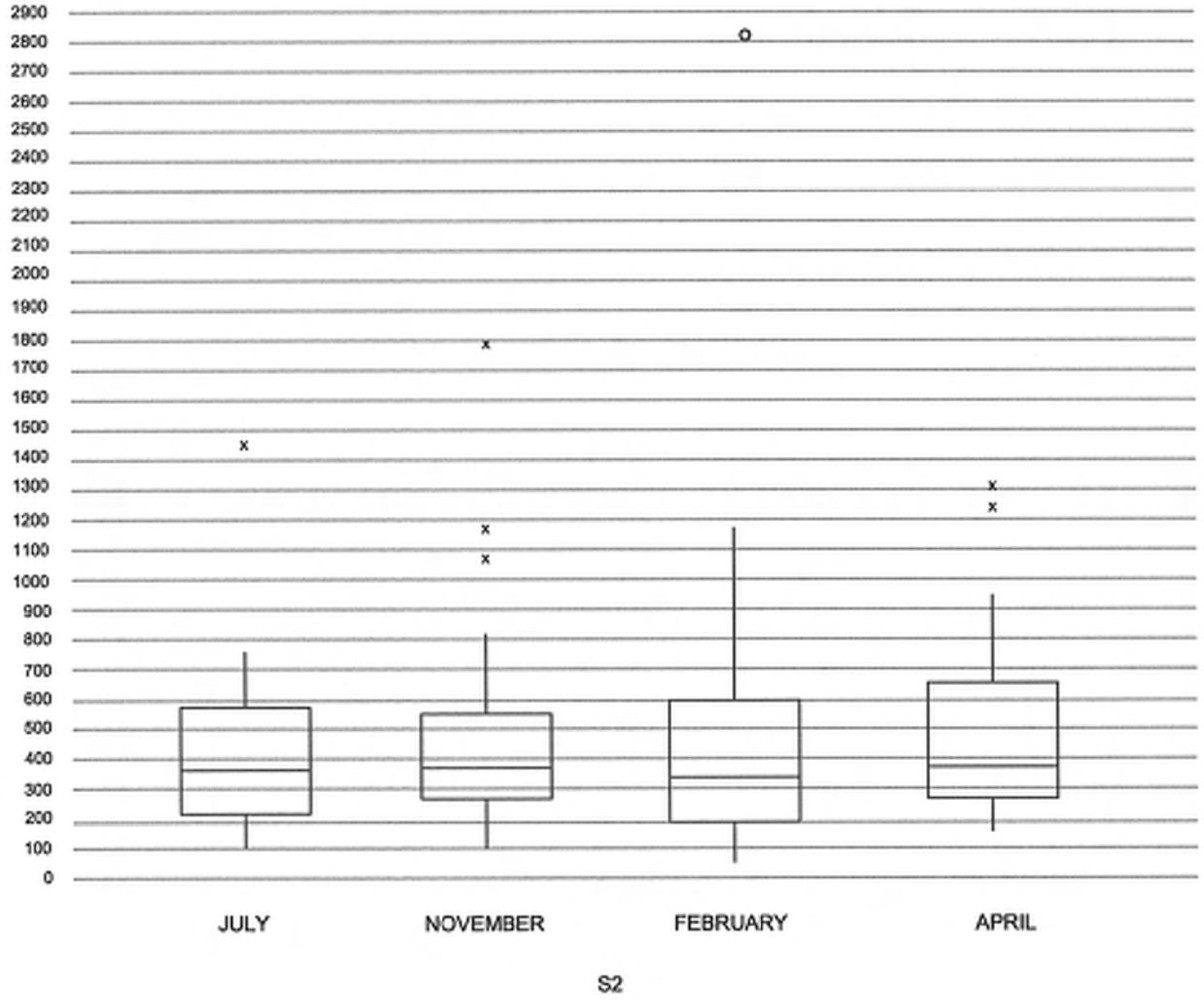
Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 4
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - S1 SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCV61843 Sodium Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR



S2

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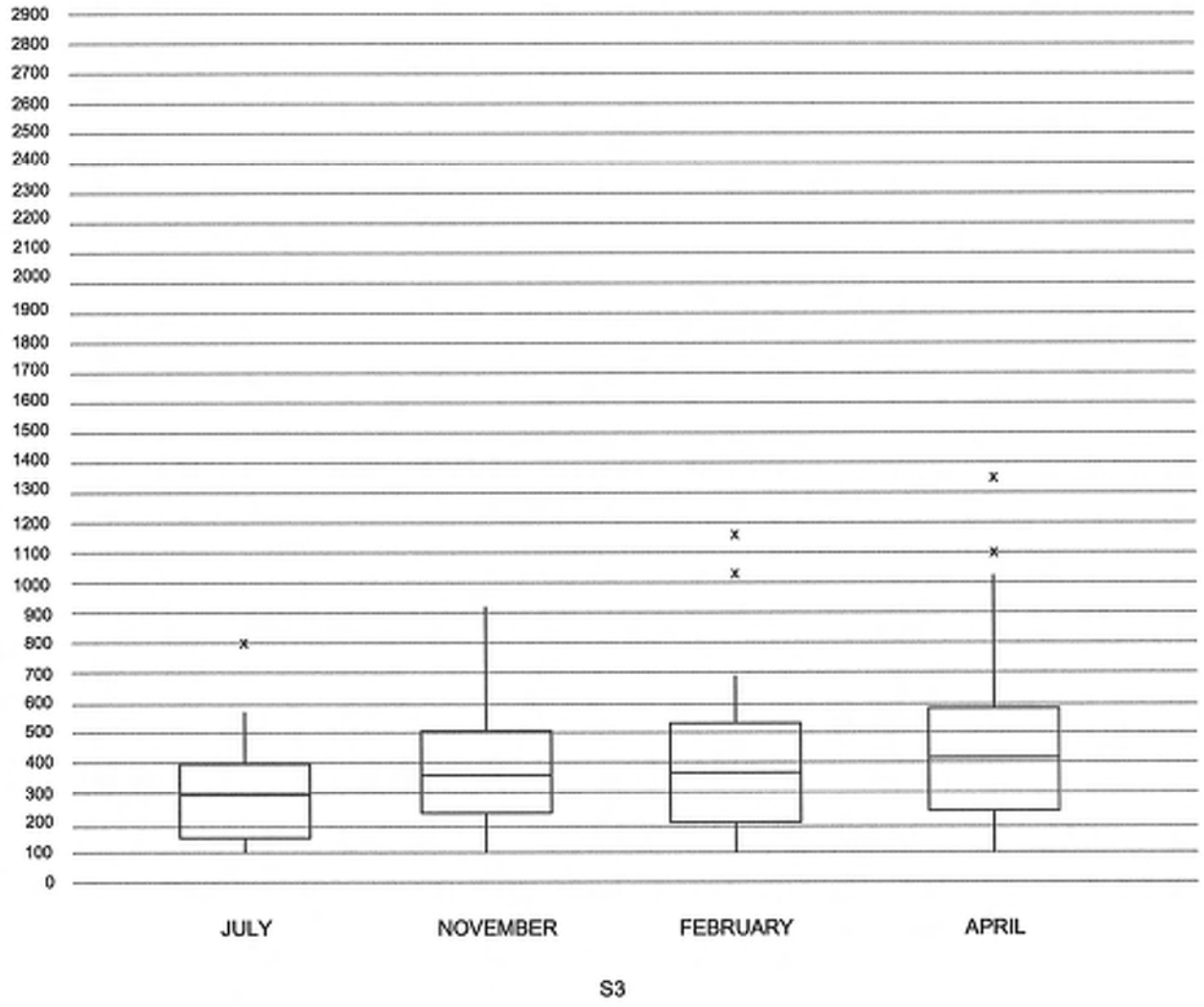
Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 5
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - S2 SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV60843\BCV61843 Sodium Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR

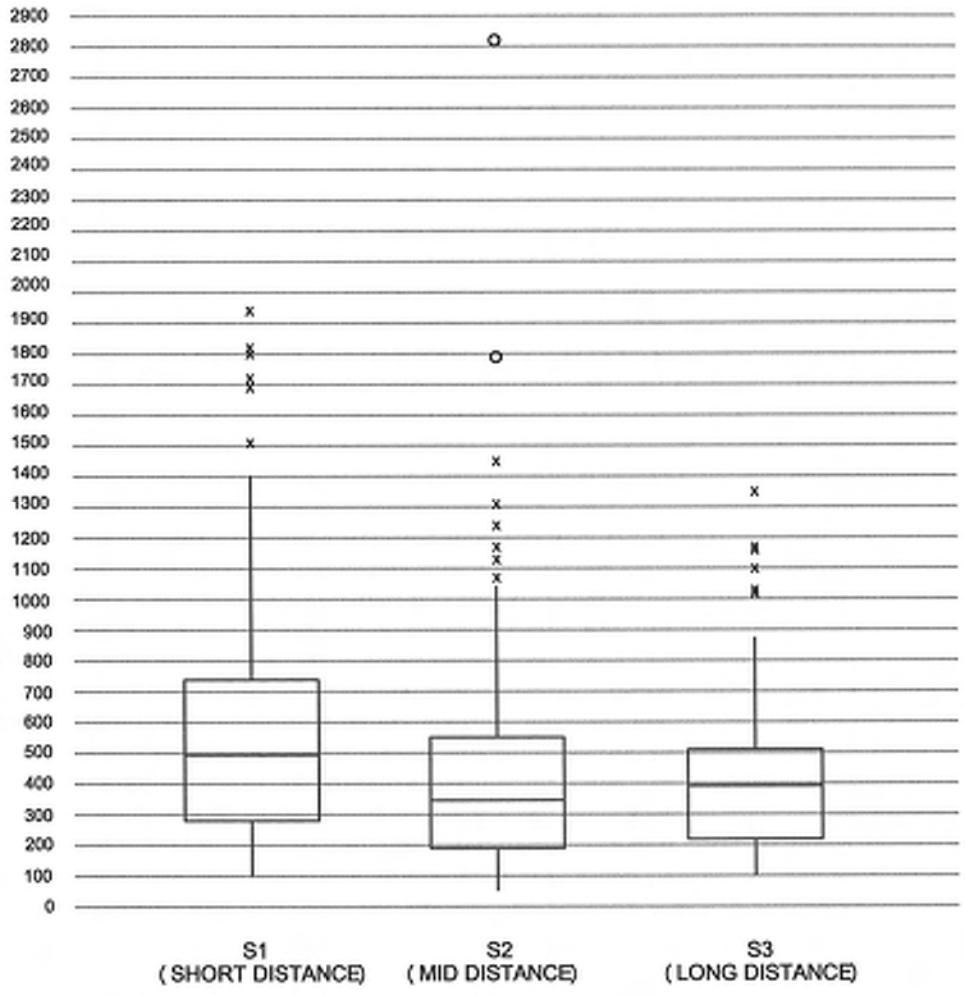


S3

This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 6
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - S3 SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCV61843 Sodium Graphs.dwg

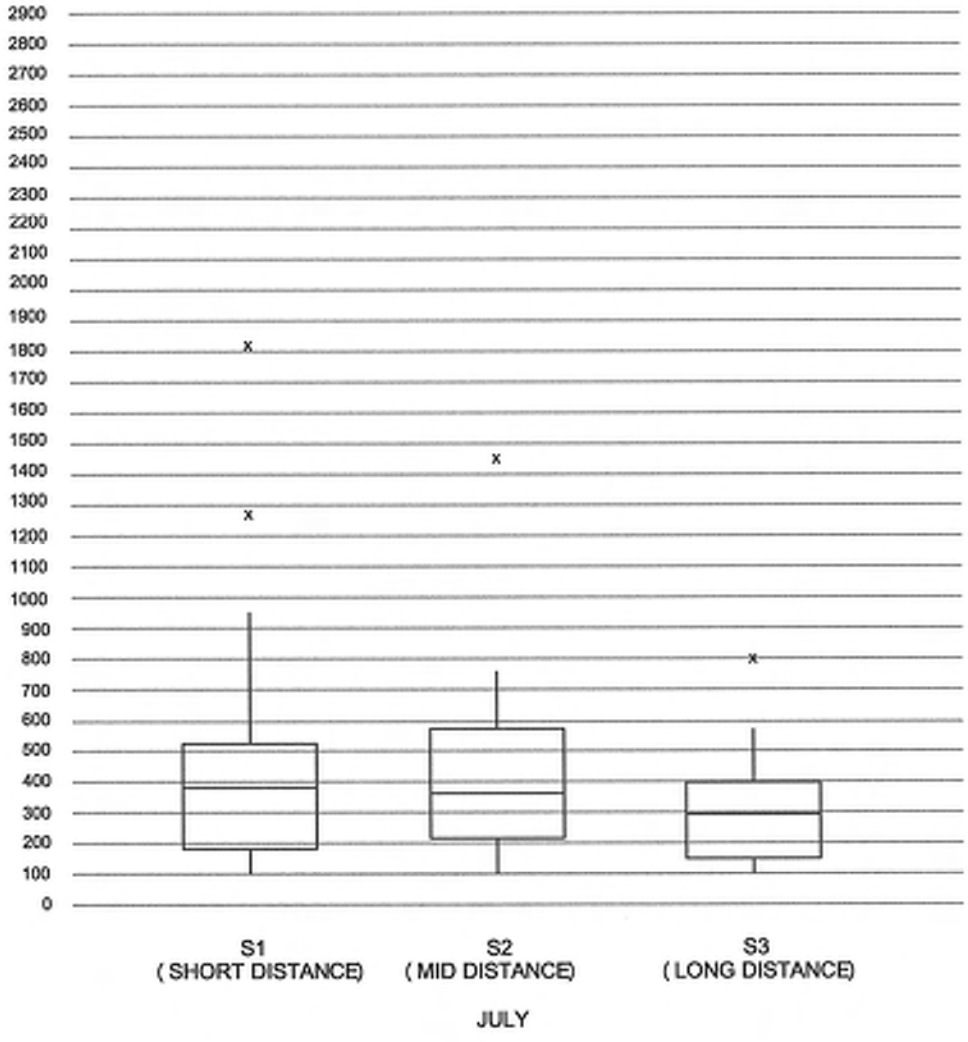


This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 7
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - ALL EVENTS SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCV61843 Sodium Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR



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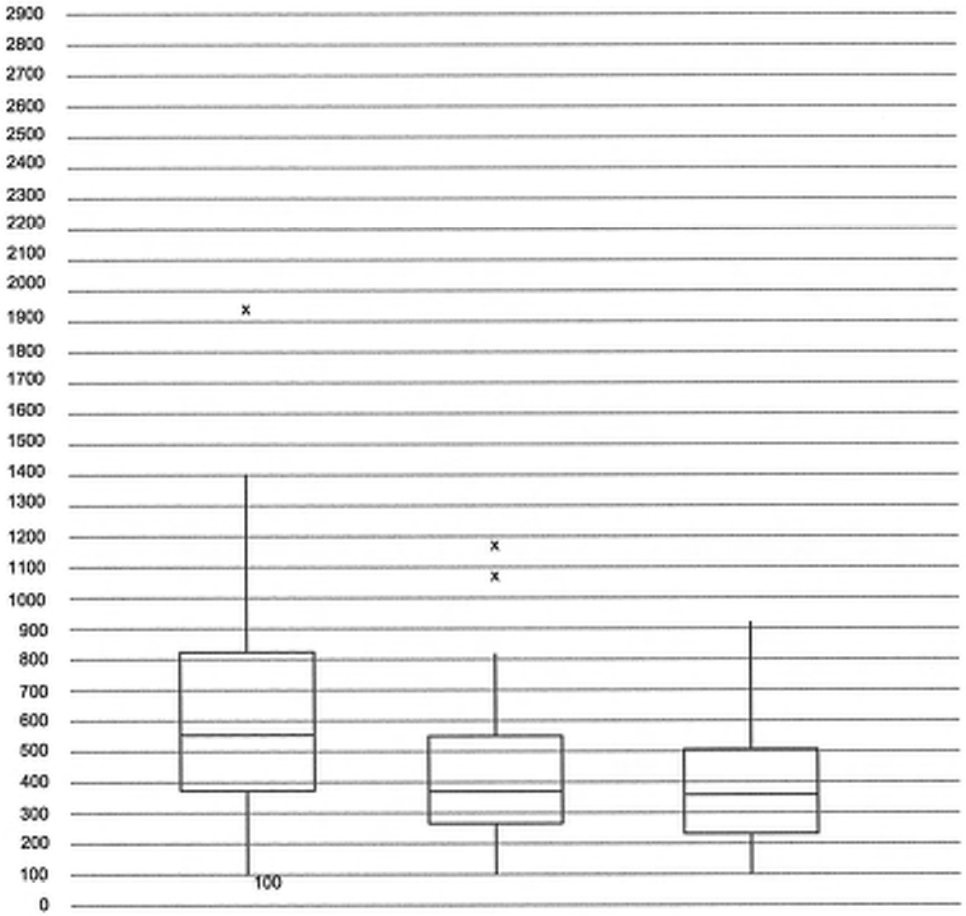
Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 8
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - JULY SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCV61843 Sodium Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR

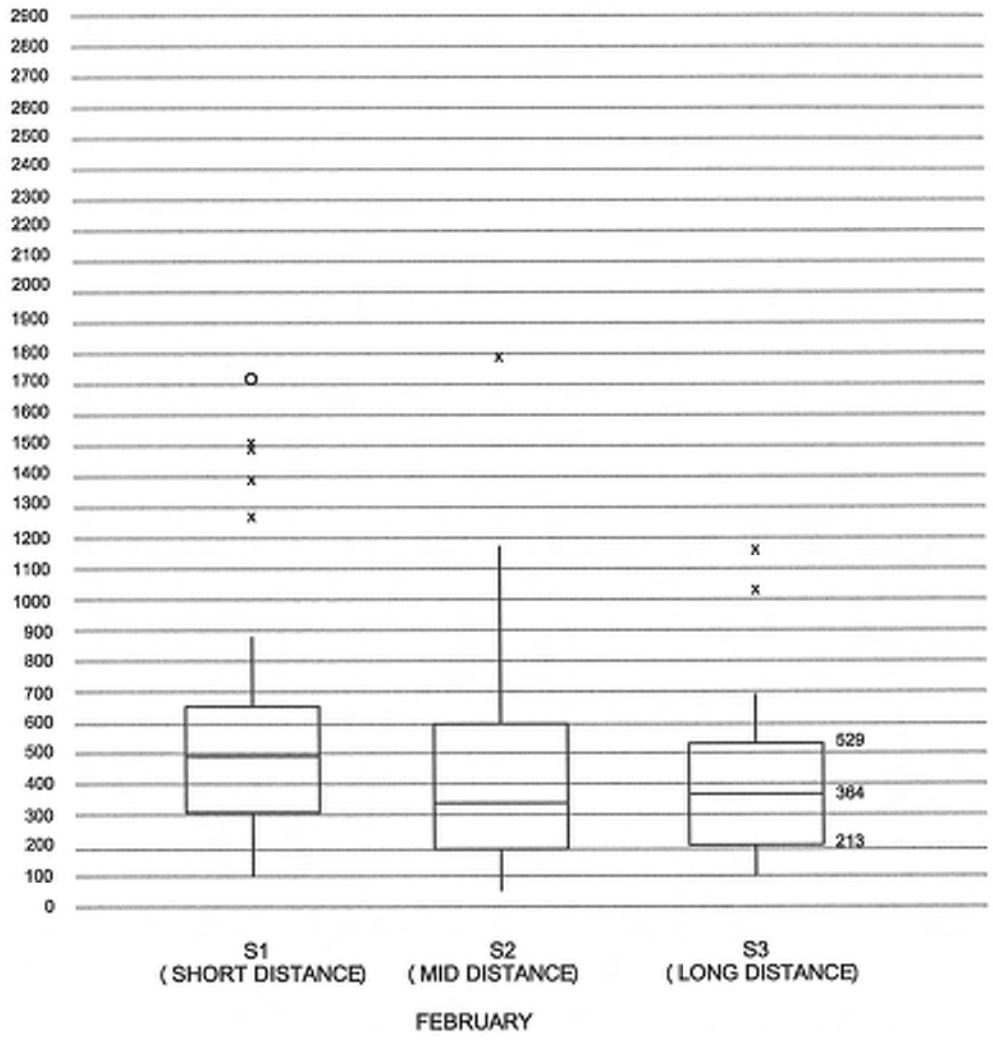


This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 9
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - NOVEMBER SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCV61843 Sodium Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR



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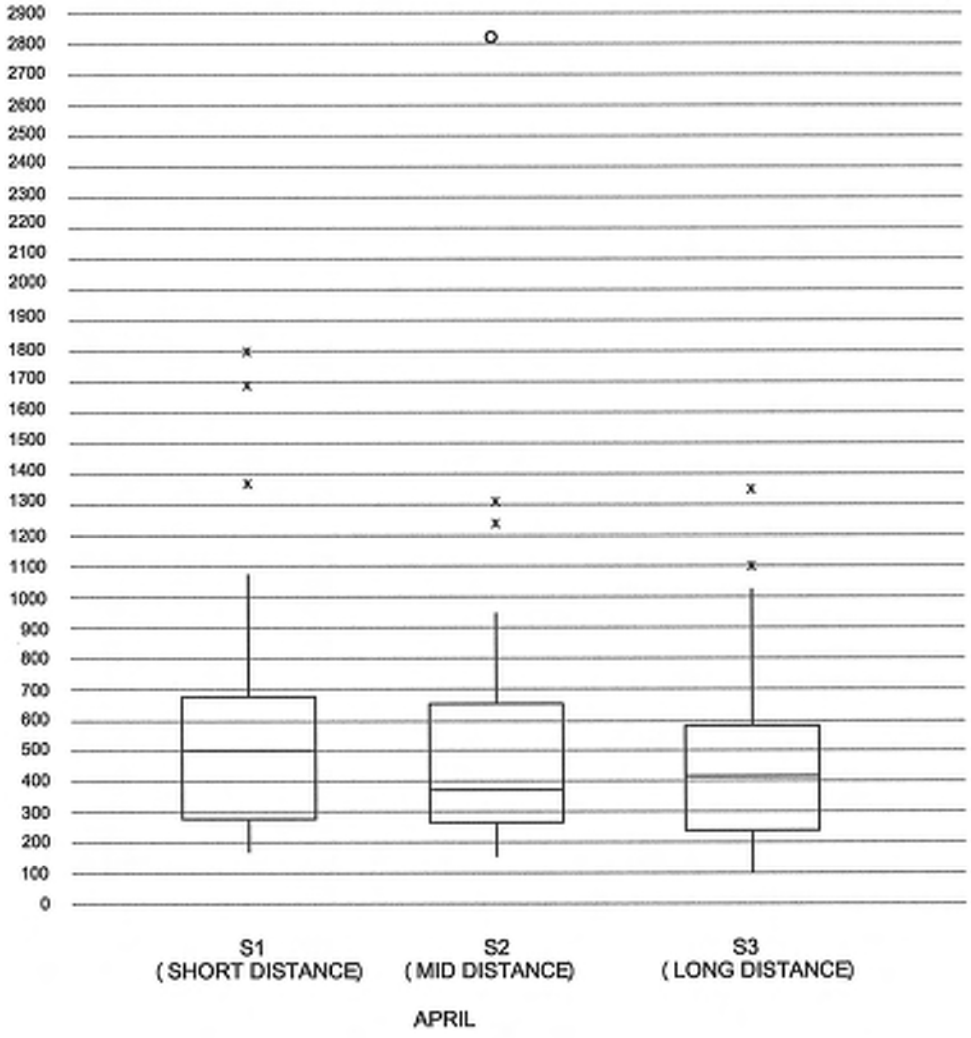
Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 10
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - FEBRUARY SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCV601843 Sodium Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR



APRIL

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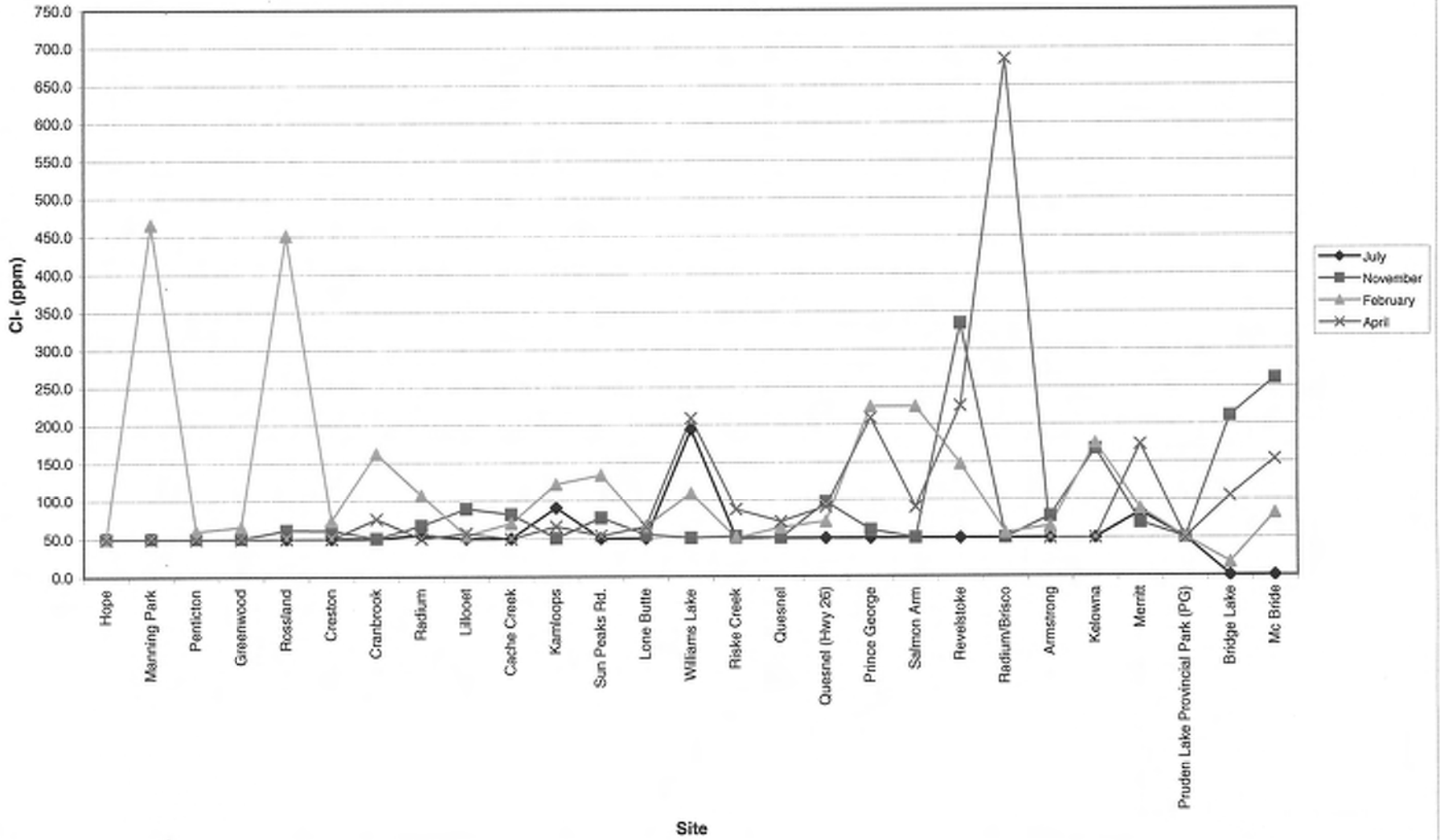
Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 11
	PROJECT No: BCV61843	DATE: 16-Nov-05	SODIUM - APRIL SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

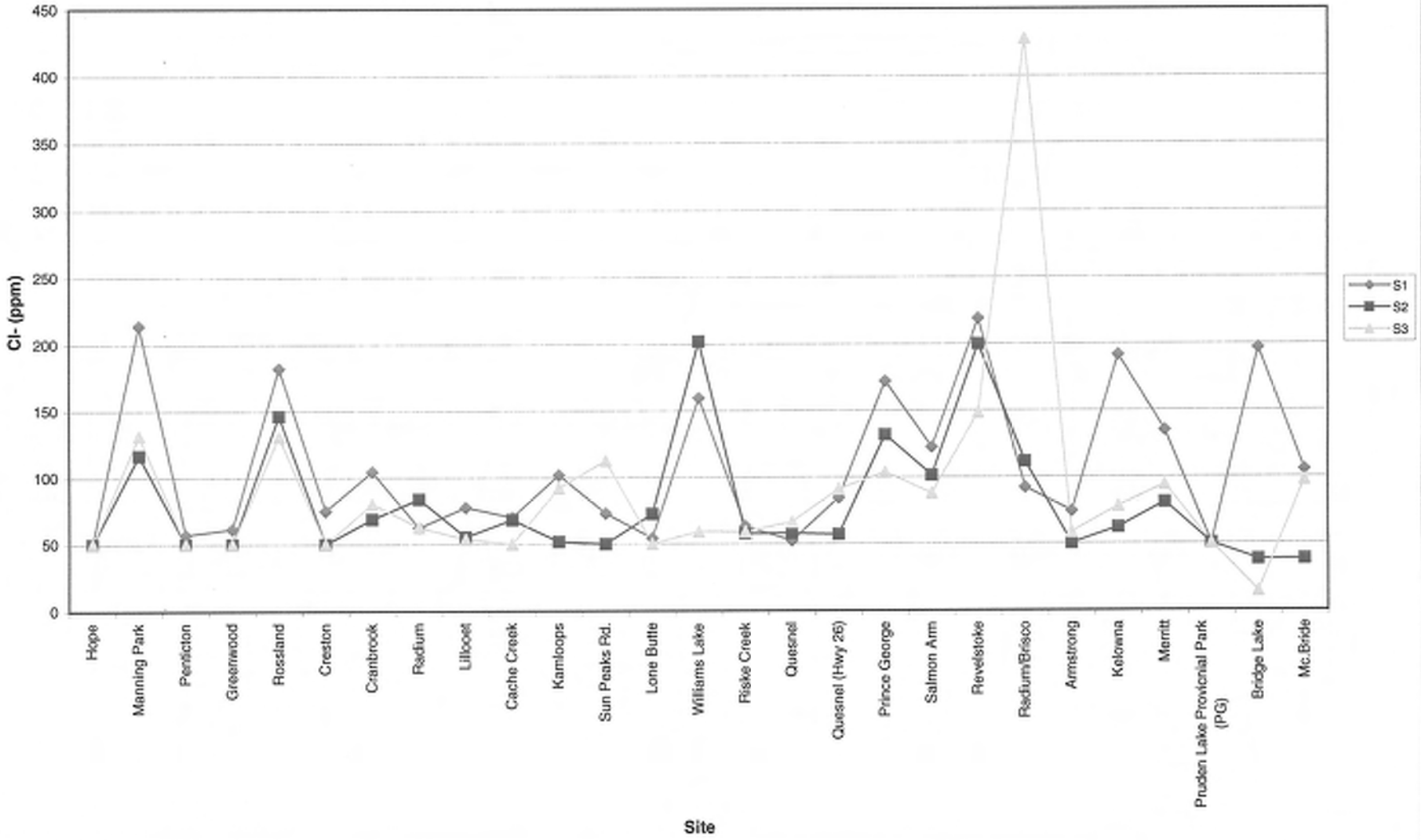
FILENAME: 2004\EE\BCV61843\BCV61843 Sodium Graphs.dwg

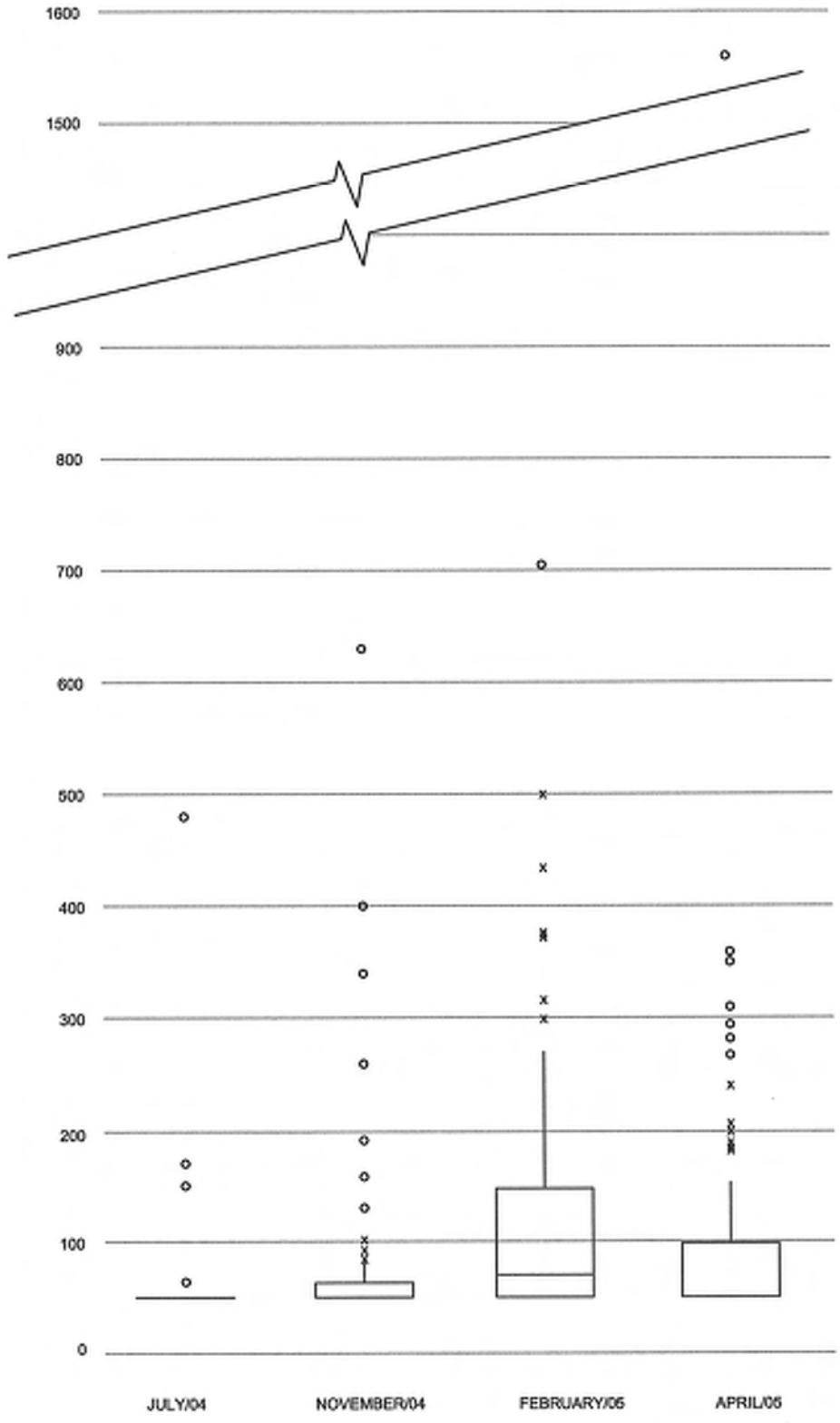
THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR

Graph 12
Average Chloride Concentration Distribution



Graph 13
Average Chloride Distribution by Distance from the Highway





This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION	CHLORIDE / MONTH	DWG No: 14
	PROJECT No: CV61843 DATE: 16-Nov-05	SALT IN ROADSIDE SOILS SAMPLING PROGRAM	
	DRAWN BY: LM CHECKED BY:		

FILENAME: 2004\EE\BCV61843\BCV61843 Chloride Graphs.dwg

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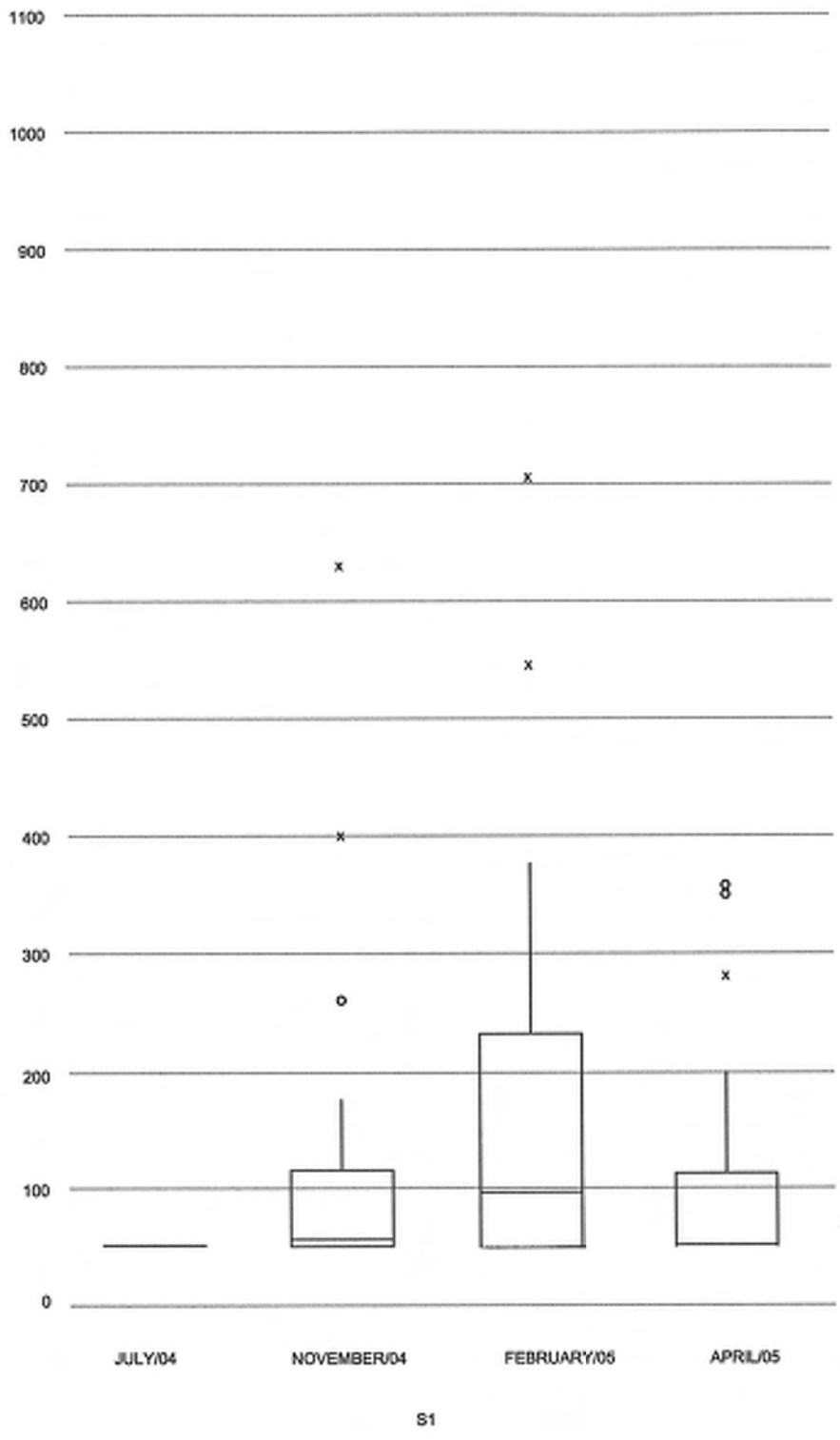

This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION	CHLORIDE - S1	DWG No: 15
	PROJECT No: BCV61843 DATE: 16-Nov-05		
	DRAWN BY: LM CHECKED BY:		

FILENAME: 204\EE\BCV61843\BCV61843 Chloride Graphs.dwg

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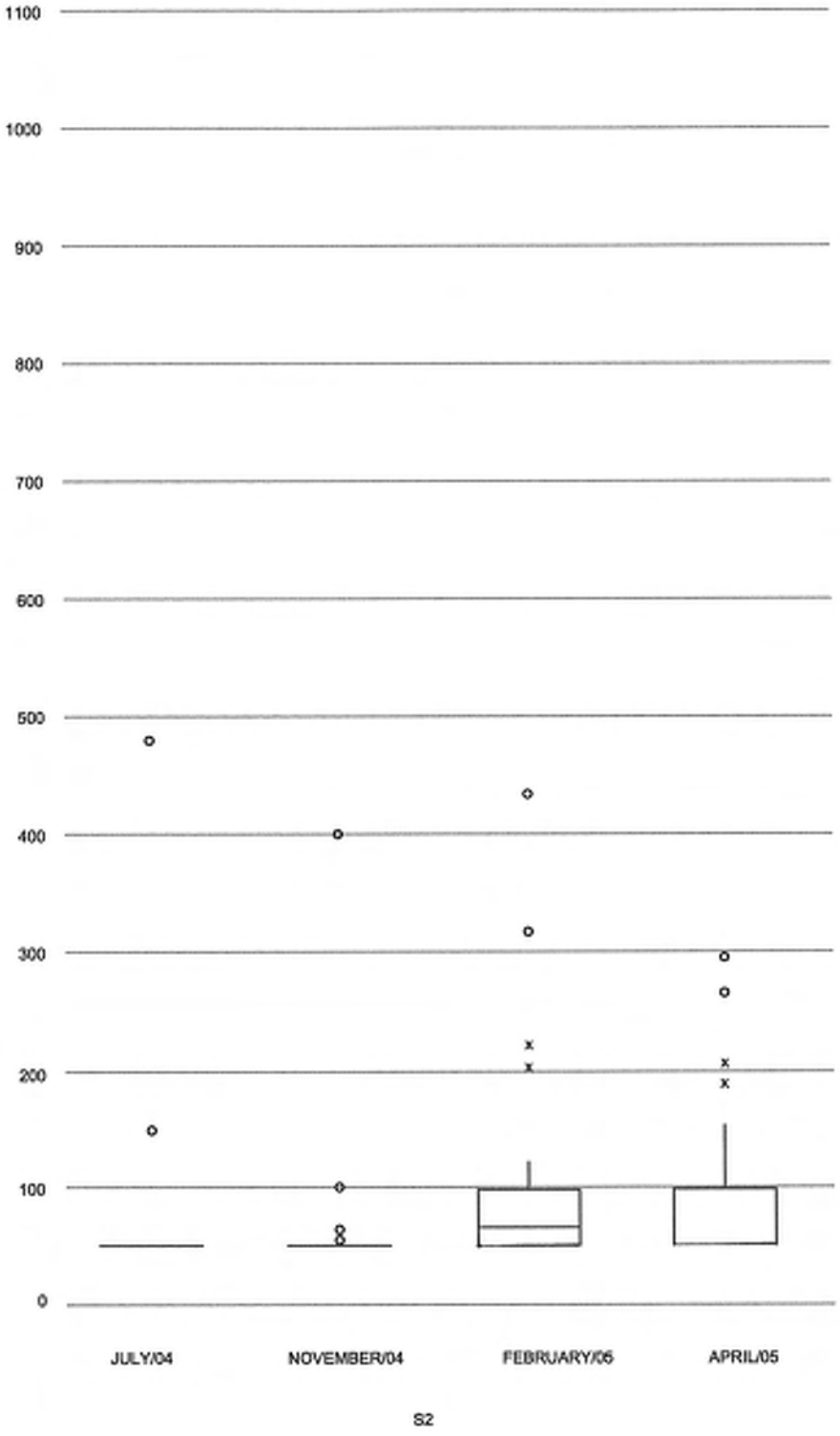

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Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 16
	PROJECT No: BCV61843	DATE: 16-Nov-05	CHLORIDE - S2 SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCC61843 Chloride Graphs.dwg

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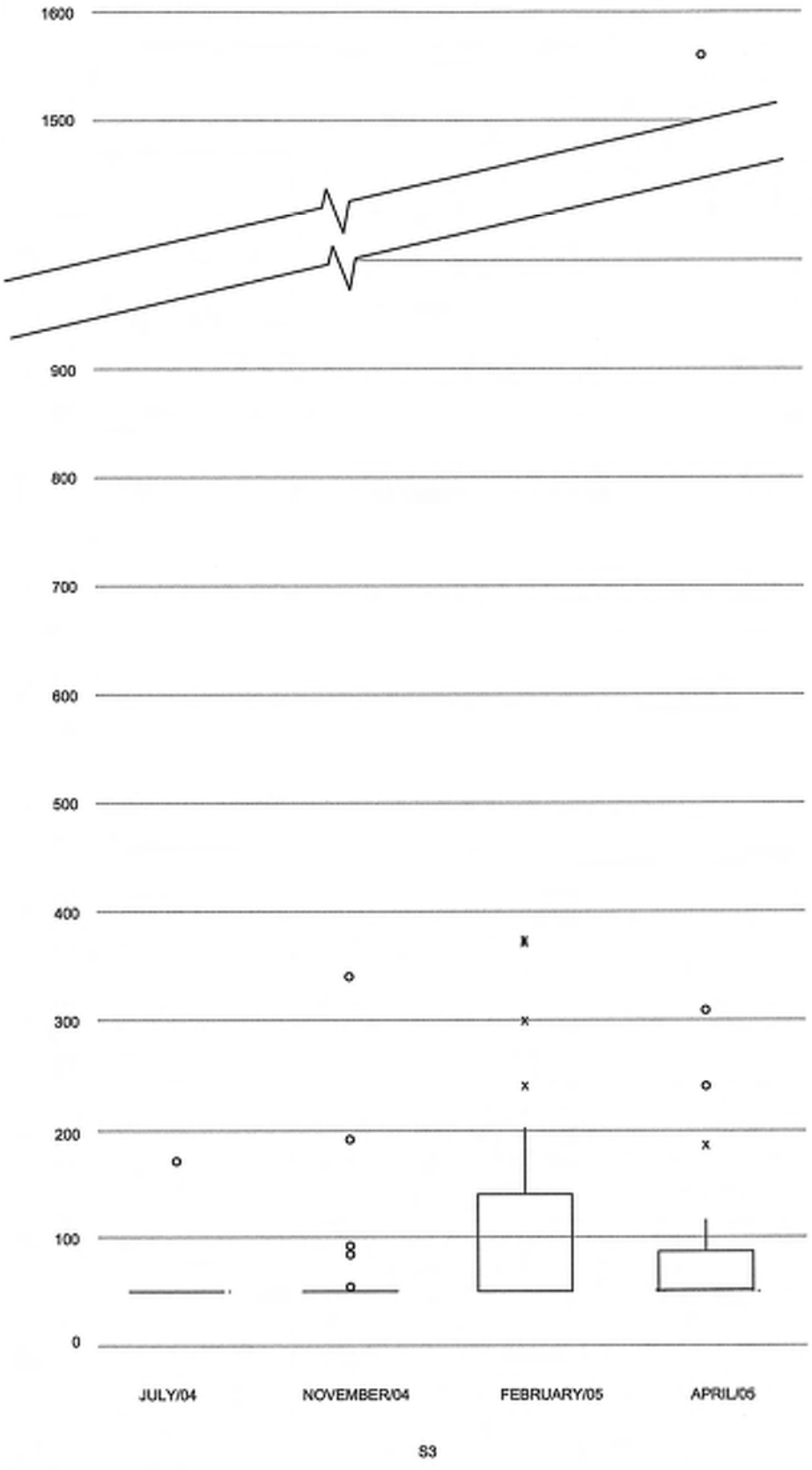

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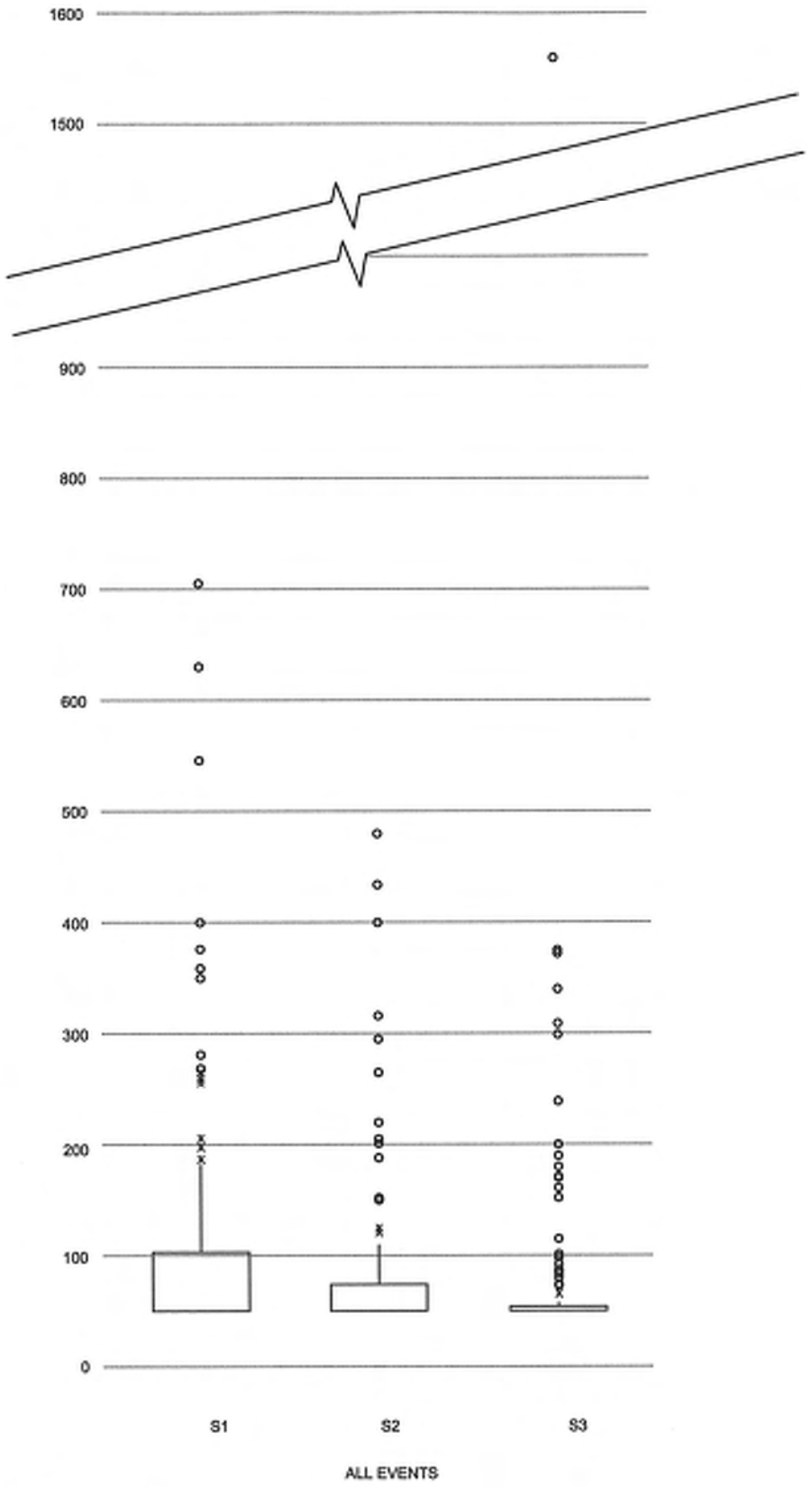
Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION	CHLORIDE - S3	DWG No: 17
	PROJECT No: BCV61843 DATE: 16-Nov-05		
	DRAWN BY: LM CHECKED BY:		

FILENAME: 2004\EE\BCV61843\BCV61843 Chloride Graphs.dwg

THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR



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Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION	CHLORIDE - ALL EVENTS	DWG No: 18
	PROJECT No: BCV61843 / DATE: 16-Nov-05		
	DRAWN BY: LM / CHECKED BY:		

FILENAME: 2004\BCV61843\BCV61843 Chloride Graphs.dwg

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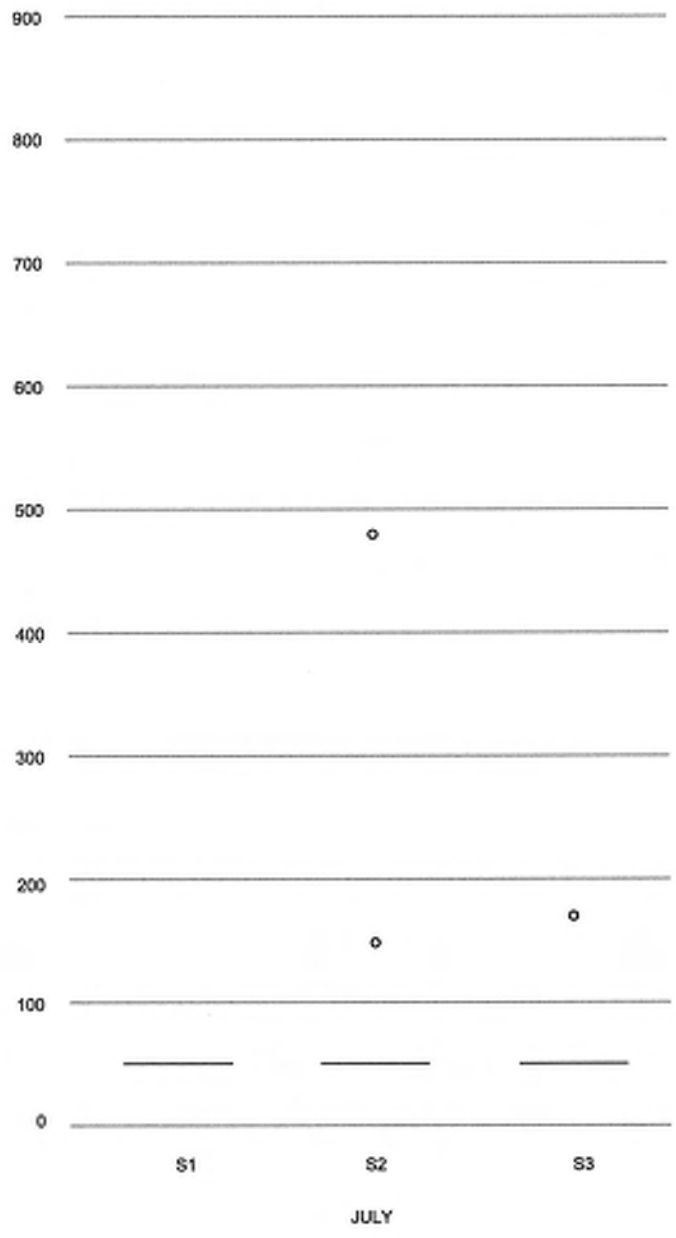

This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION	CHLORIDE - JULY SALT IN ROADSIDE SOILS SAMPLING PROGRAM	DWG No: 19
	PROJECT No: BCV61843 DATE: 16-Nov-05		
	DRAWN BY: LM CHECKED BY:		

FILENAME: 2004\EE\BCV61843\BCV61843 Chloride Graphs.dwg

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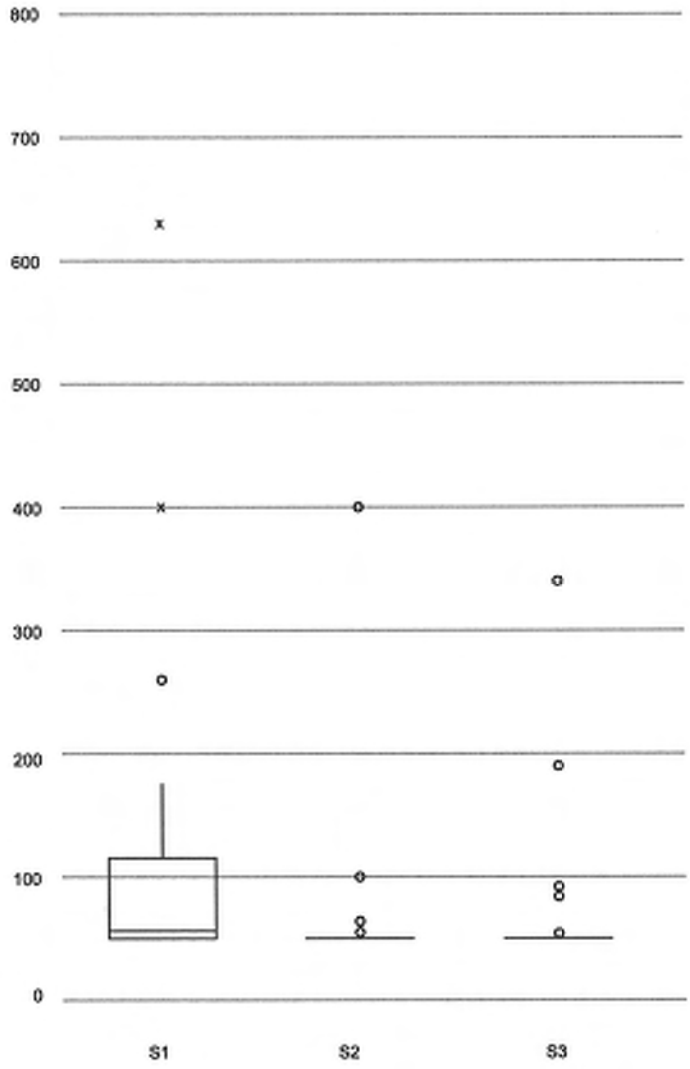

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Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No:
	PROJECT No: BCV61843	DATE: 16-Nov-05	CHLORIDE - NOVEMBER SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	20

FILENAME: 2004\EE\BCV61843\BCV61843 Chloride Graphs.dwg

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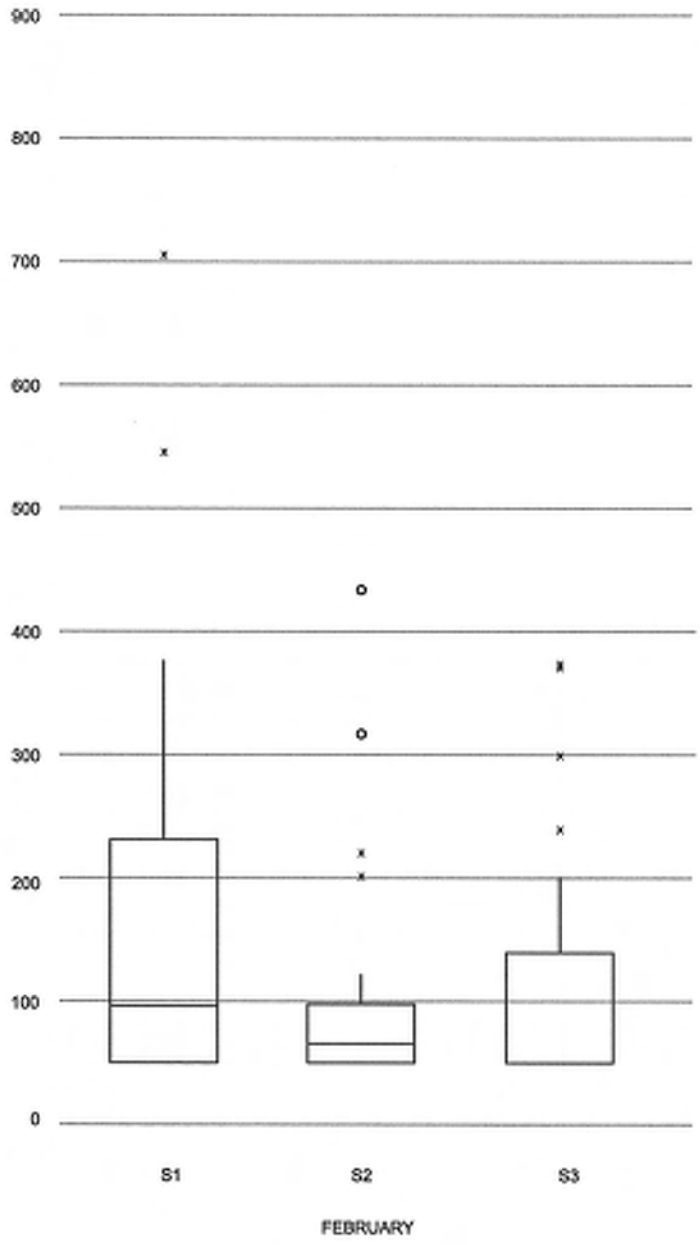

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Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 21
	PROJECT No: BCV61843	DATE: 16-Nov-05	CHLORIDE - FEBRUARY SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

FILENAME: 2004\EE\BCV61843\BCV61843 Cholride Graphs.dwg

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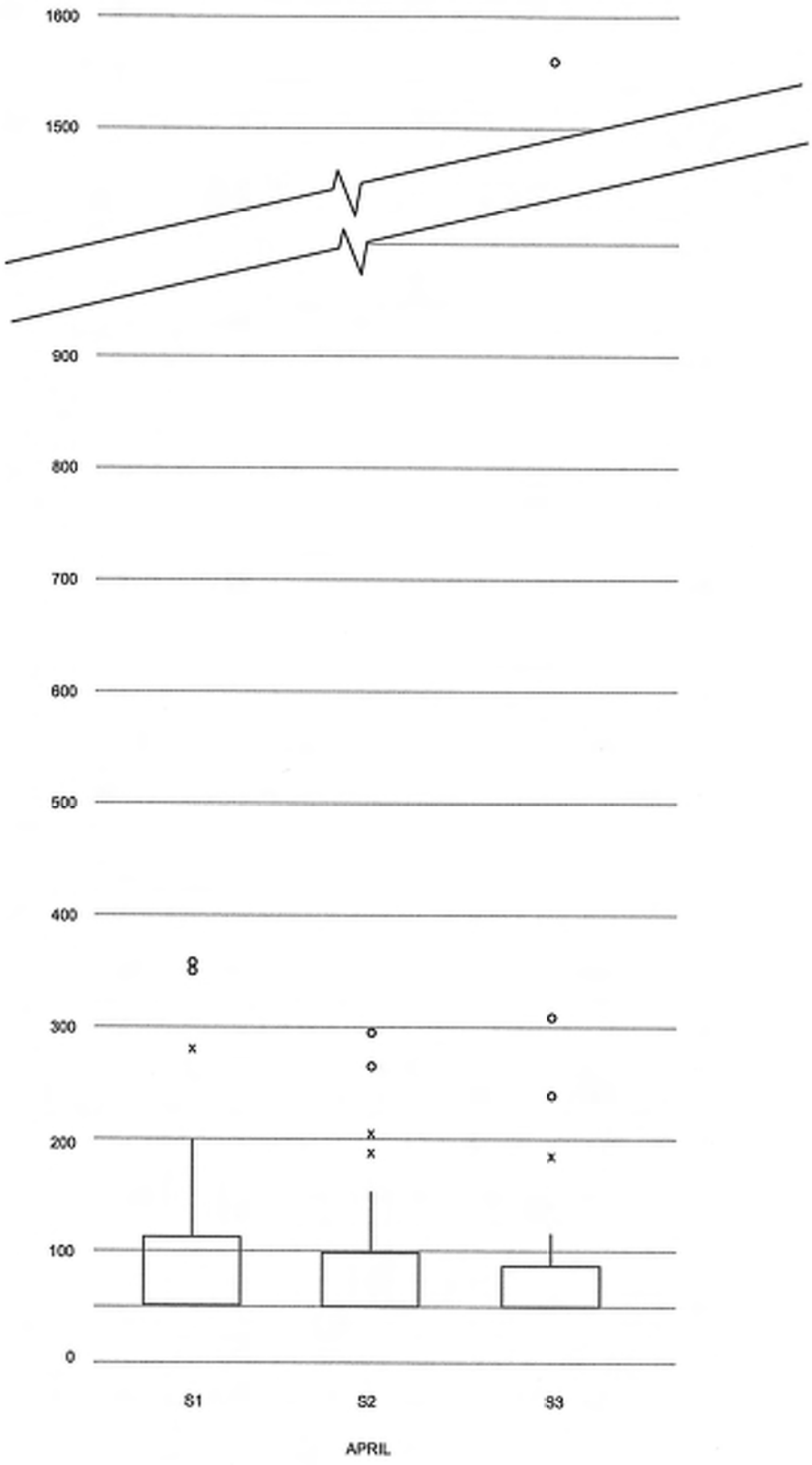


This drawing is part of a Jacques Whitford Limited report and its use is subject to the limitations expressed in the Statement of Limitations section of that report.

Jacques Whitford	CLIENT: MINISTRY OF TRANSPORTATION		DWG No: 22
	PROJECT No: BCV61843	DATE: 16-Nov-05	CHLORIDE - APRIL SALT IN ROADSIDE SOILS SAMPLING PROGRAM
	DRAWN BY: LM	CHECKED BY:	

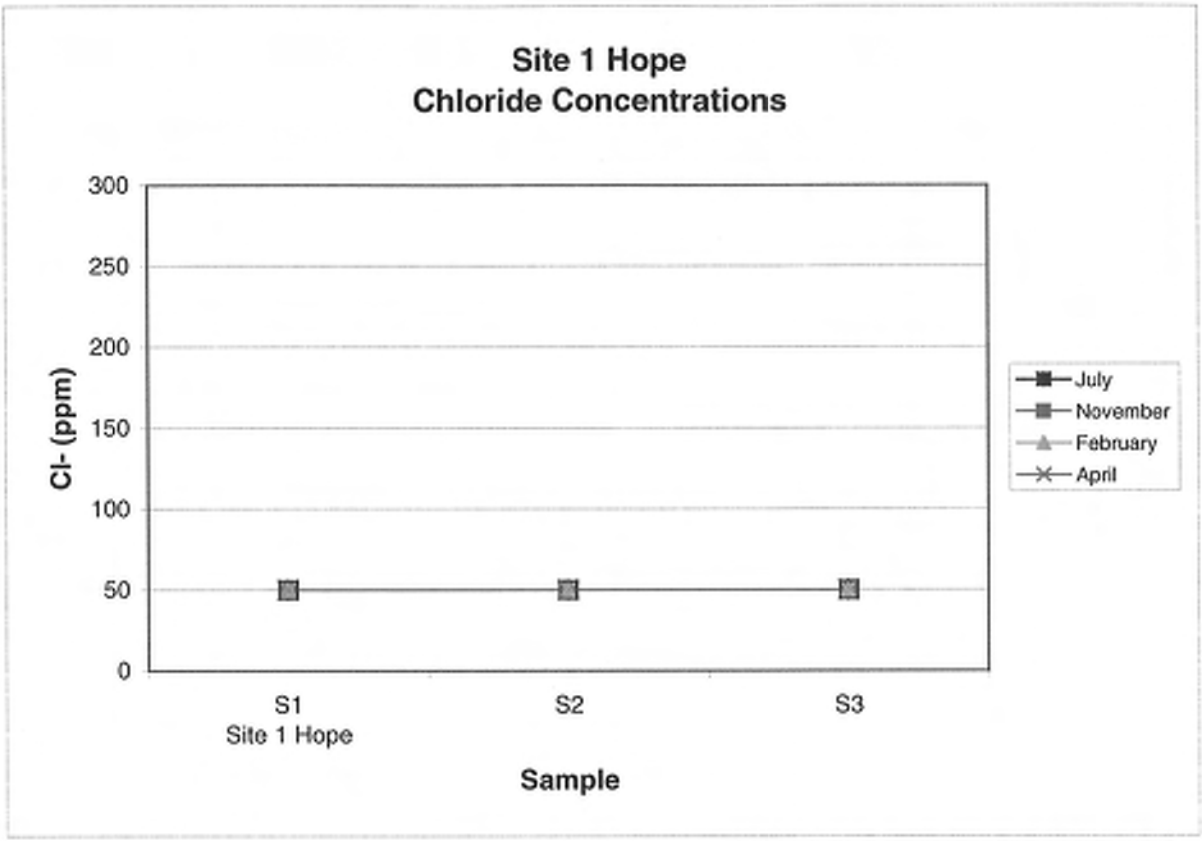
FILENAME: 2004\EE\BCV61843\BCV61843 Chloride Graphs.dwg

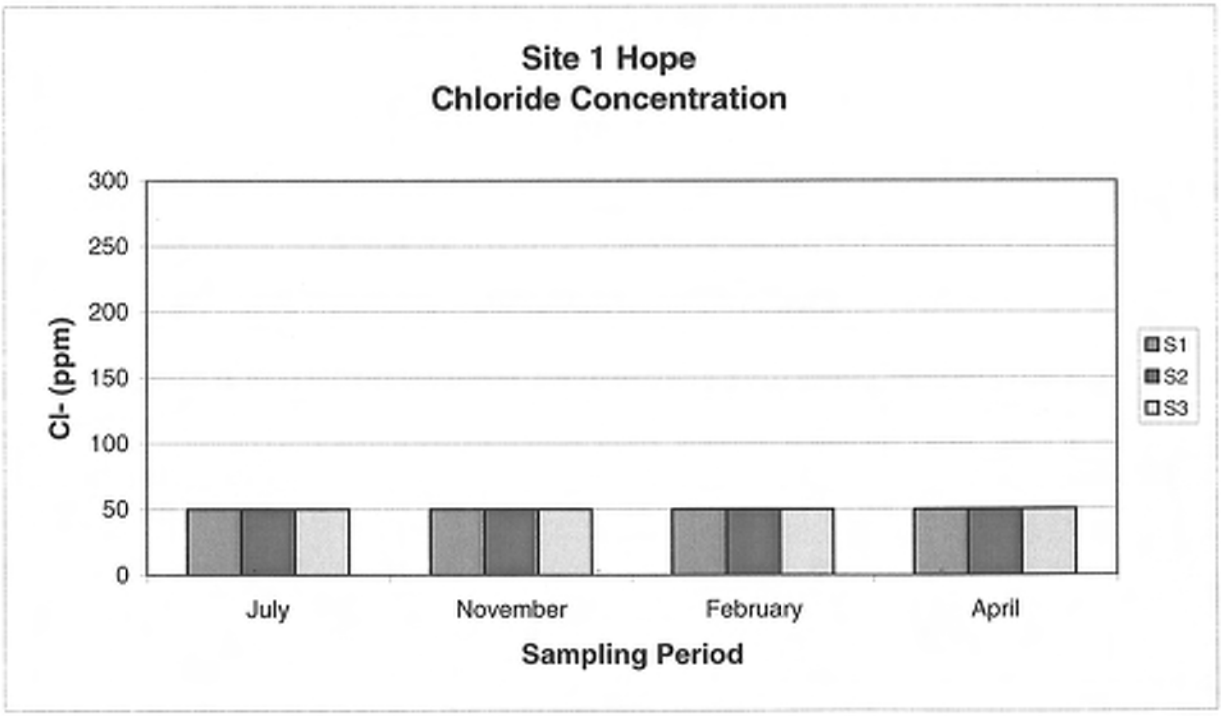
THIS DRAWING WAS ORIGINALLY PRODUCED IN COLOUR

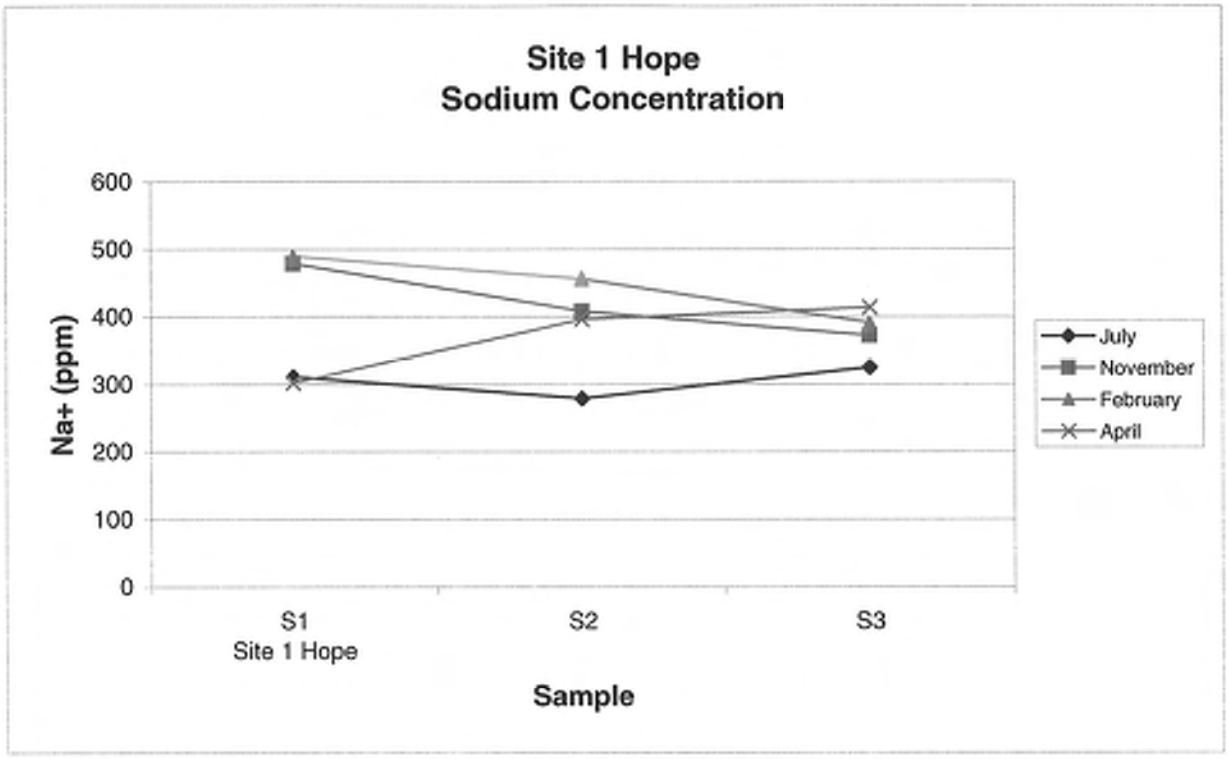
APPENDIX I

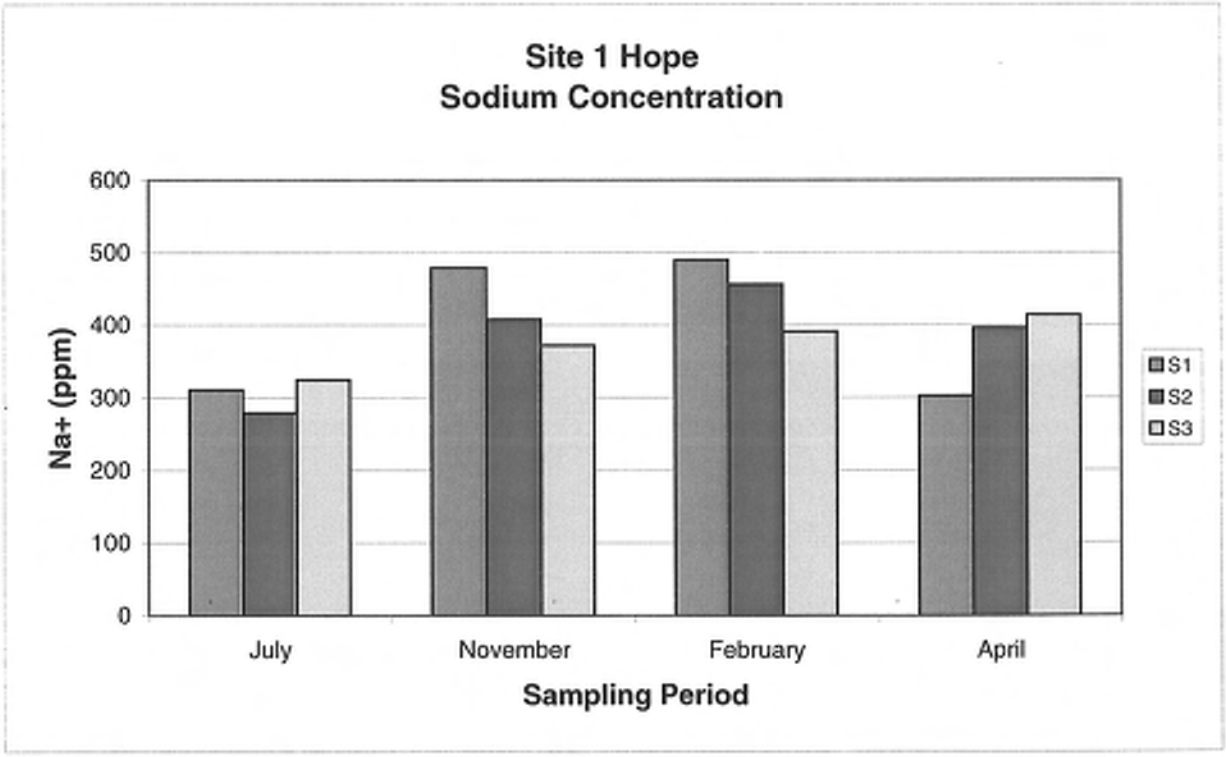
Individual Graphs by Location

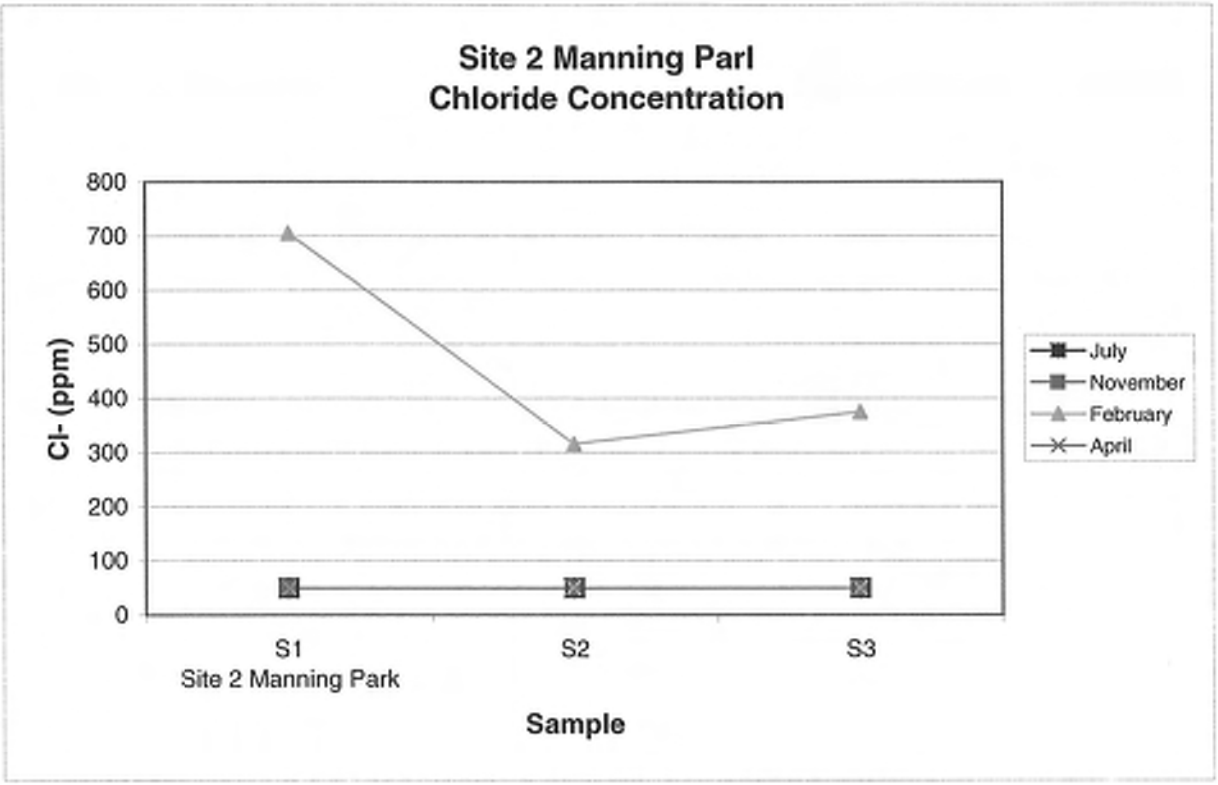
Jacques Whitford © 2005

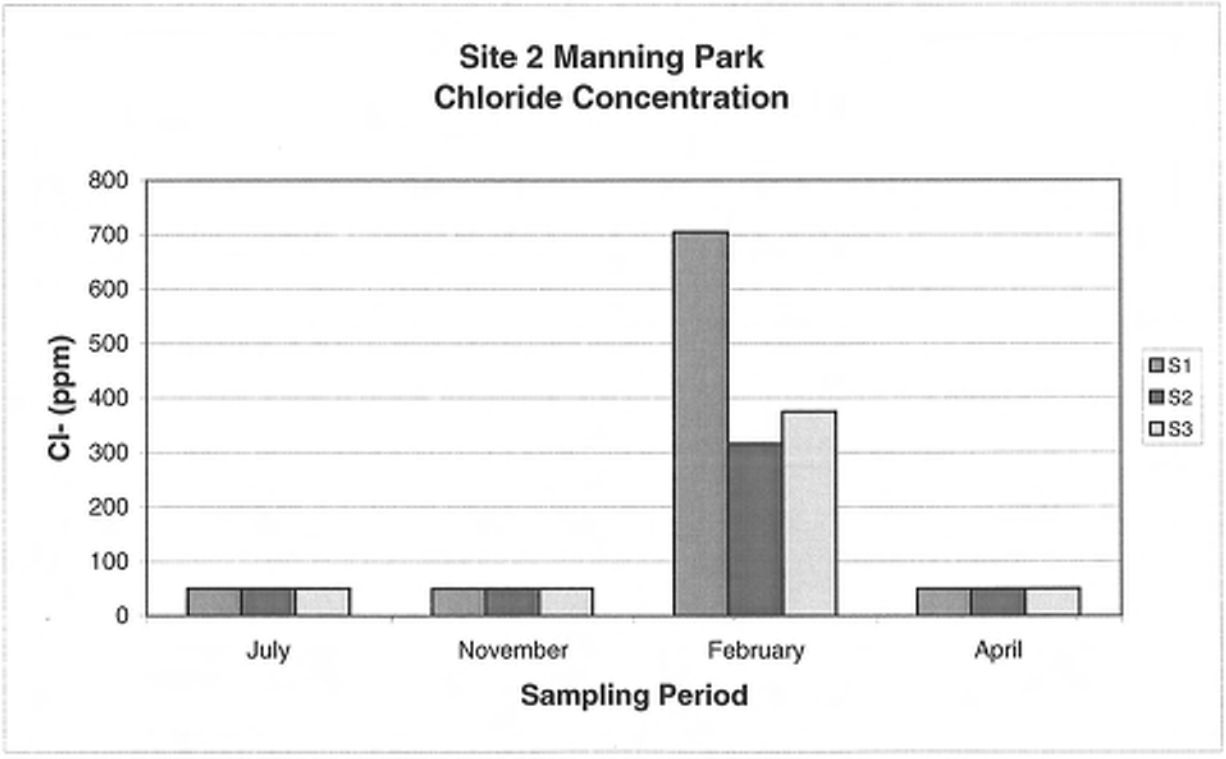

Site 1 Hope
Chloride Concentrations
300
250
200
150
100
50
0
Cl- (ppm)
S1
Site 1 Hope
S2
S3
Sample
July
November
February
April

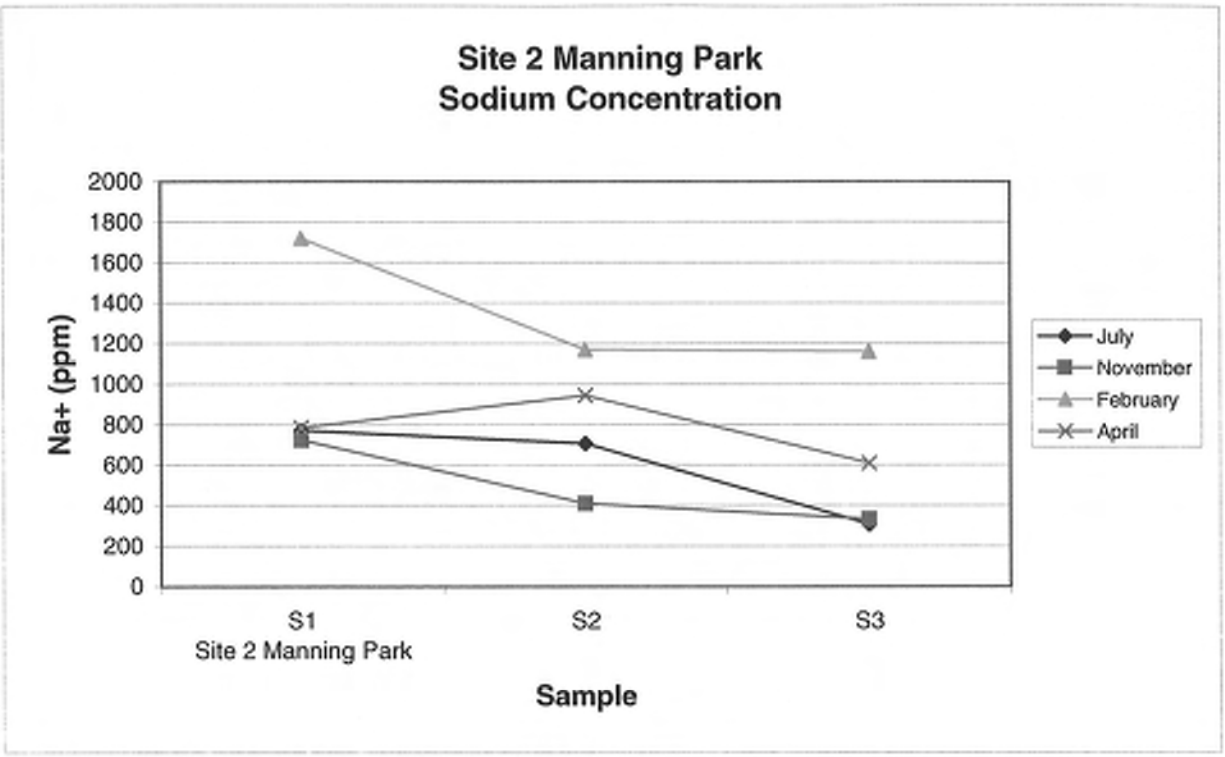

Site 1 Hope
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

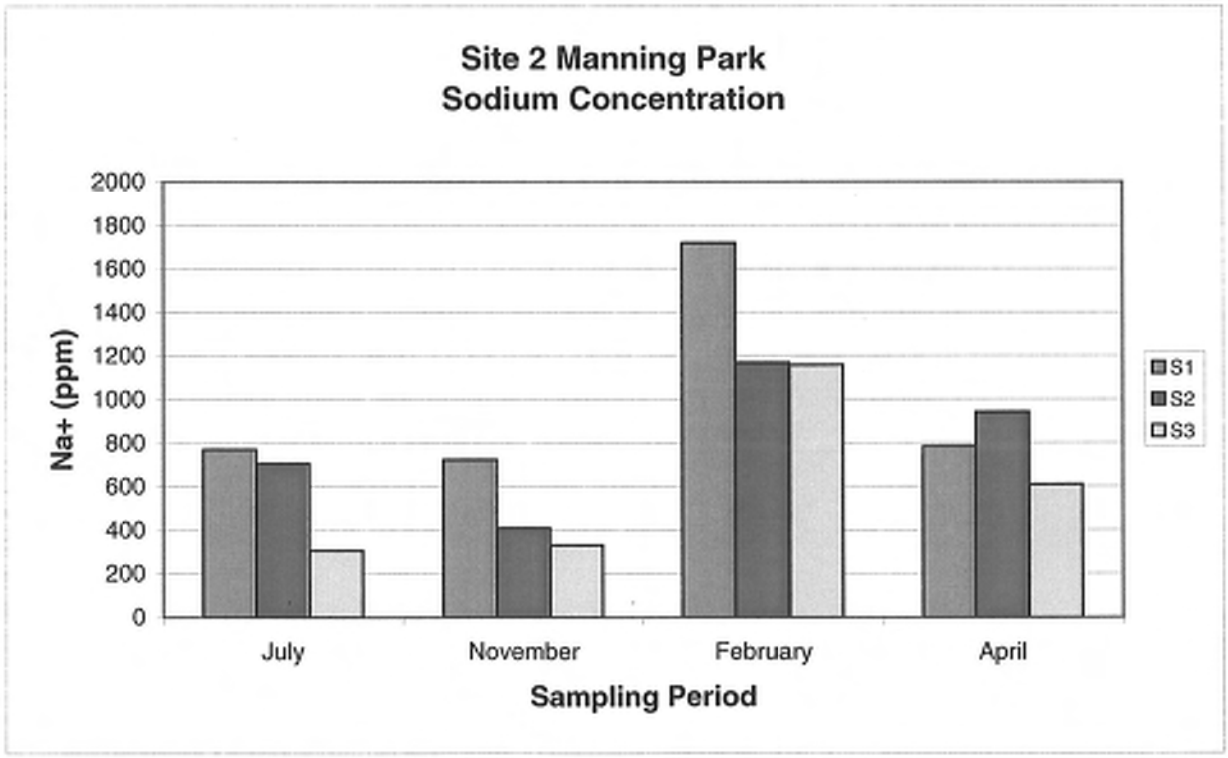

Site 1 Hope
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 1 Hope
S2
S3
Sample
July
November
February
April

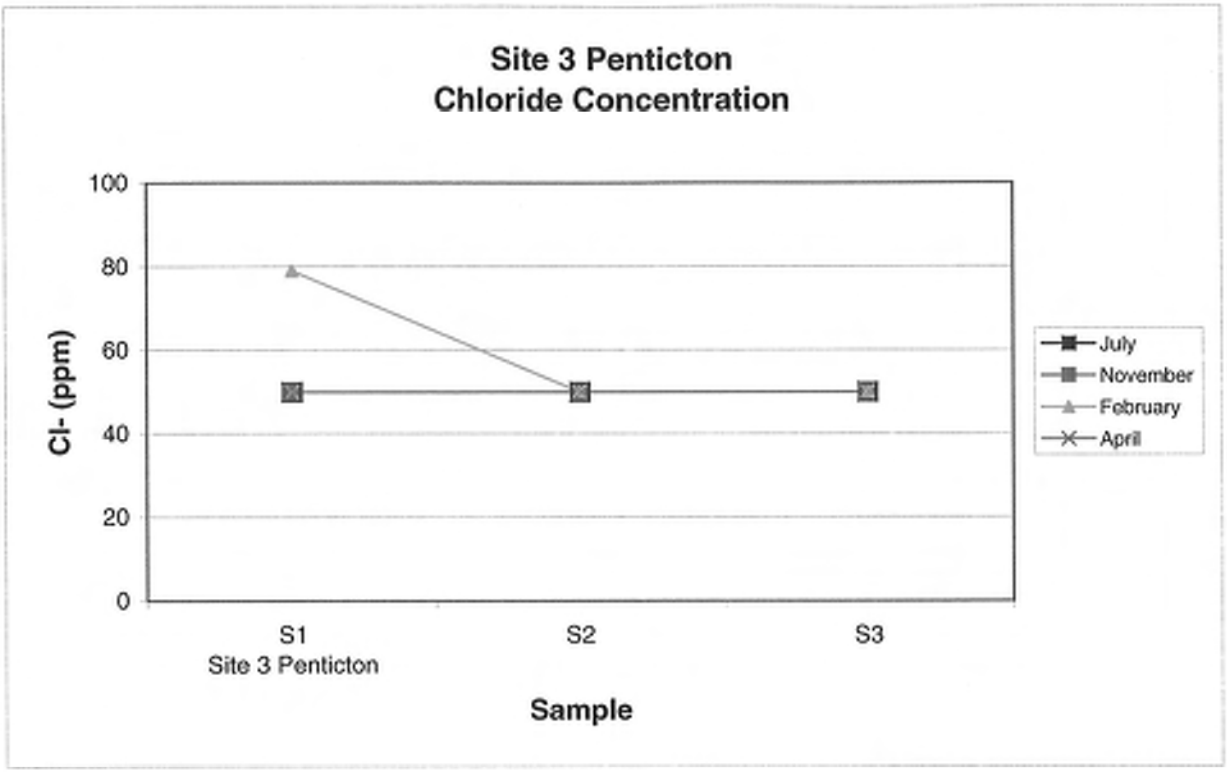

Site 1 Hope
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

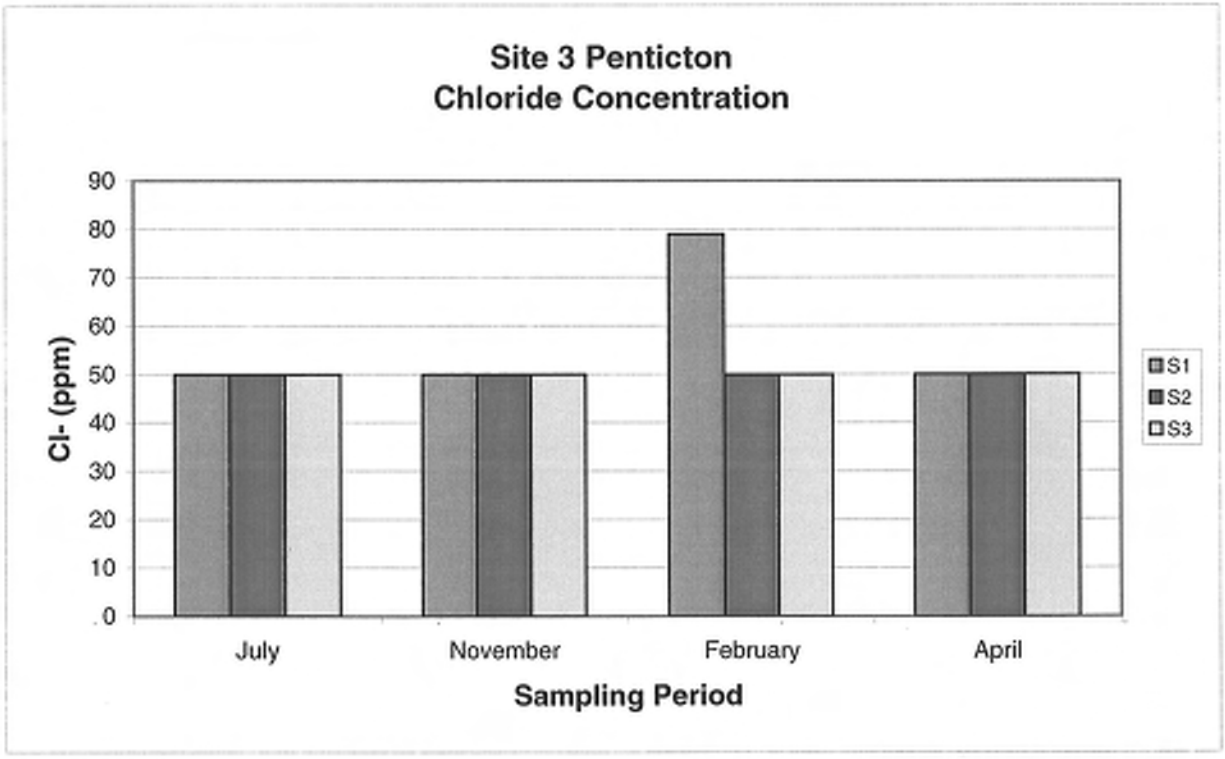

Site 2 Manning Parl
Chloride Concentration
800
700
600
500
400
300
200
100
0
Cl- (ppm)
S1
S2
S3
Site 2 Manning Park
Sample
July
November
February
April

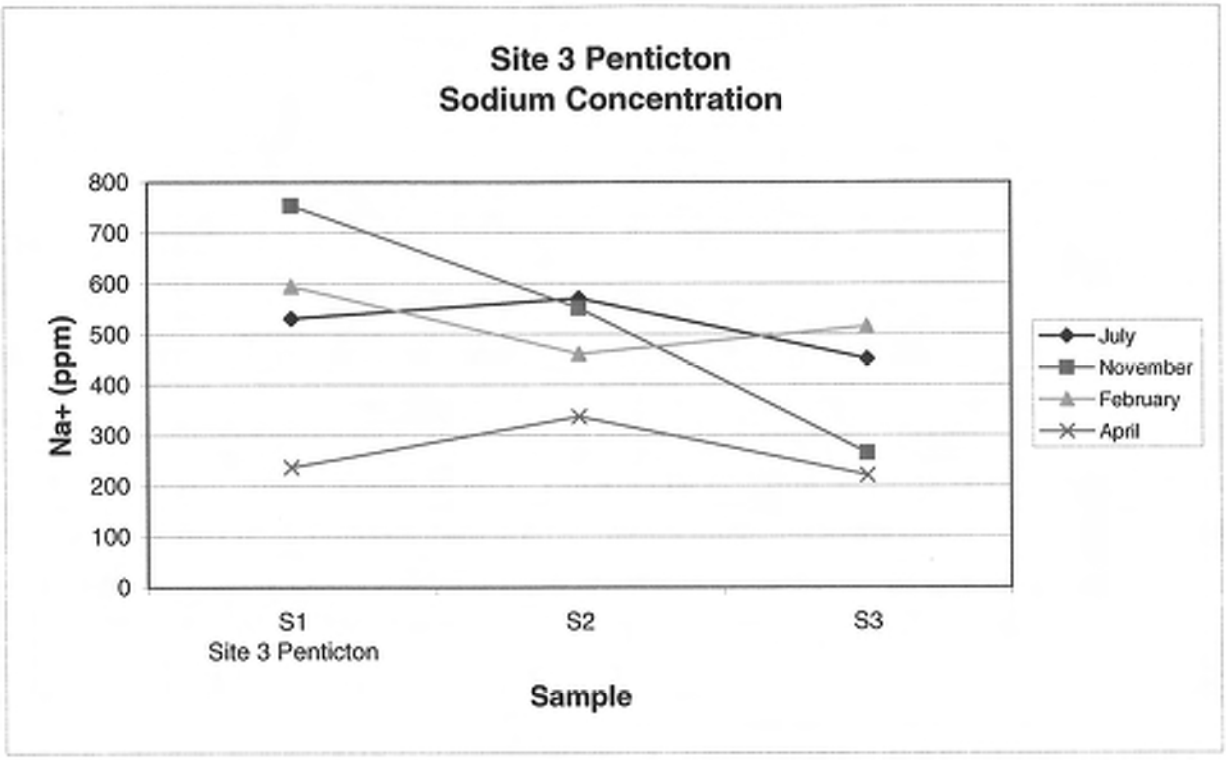

Site 2 Manning Park
Chloride Concentration
800
700
600
500
400
300
200
100
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

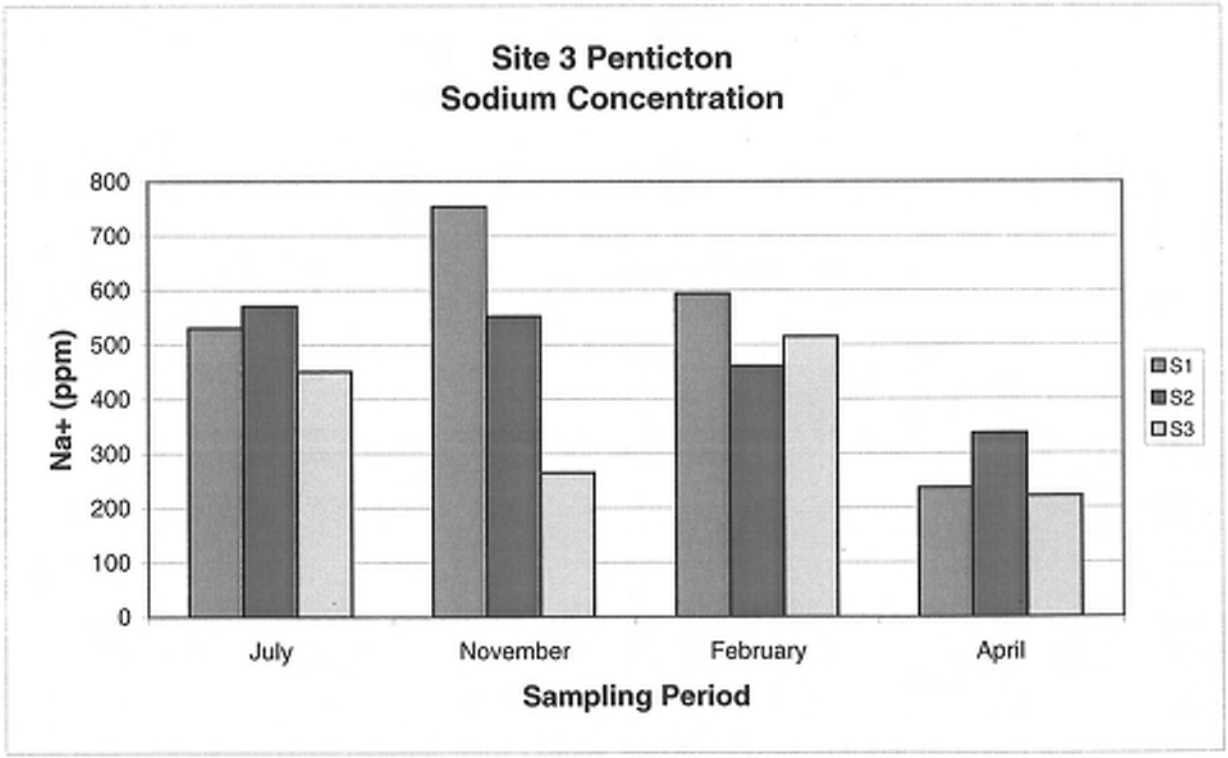

Site 2 Manning Park
Sodium Concentration
Na+ (ppm)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
S1
S2
S3
Site 2 Manning Park
Sample
July
November
February
April

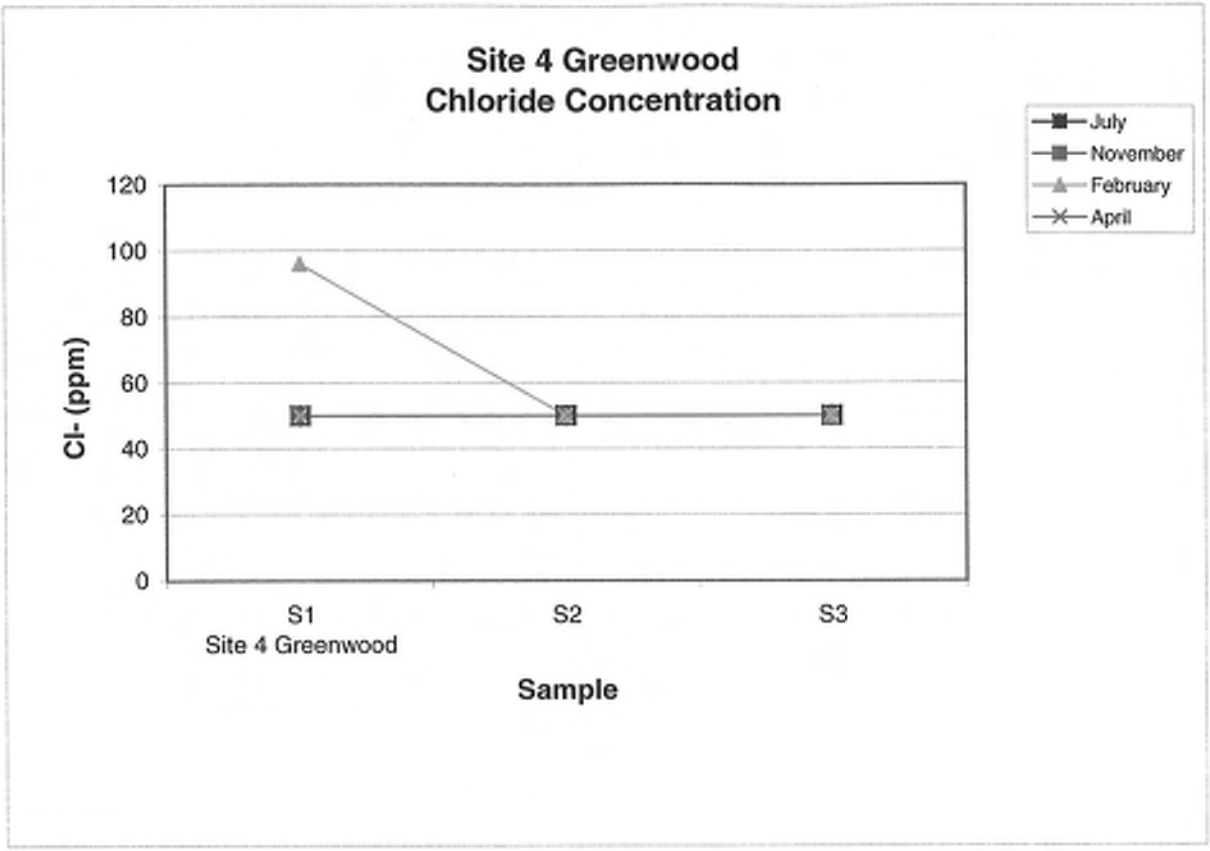

Site 2 Manning Park
Sodium Concentration
Na+ (ppm)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
July
November
February
April
Sampling Period
S1
S2
S3

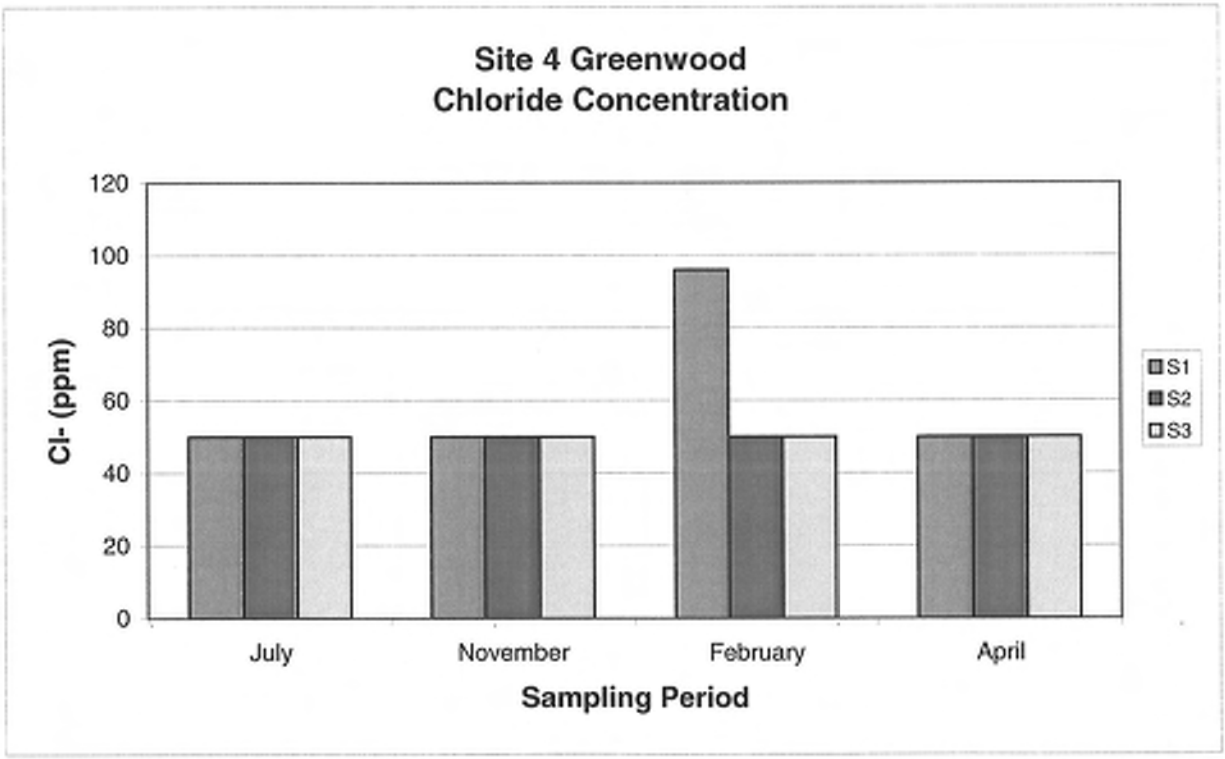

Site 3 Penticton
Chloride Concentration
100
80
60
40
20
0
Cl- (ppm)
S1
S2
S3
Site 3 Penticton
Sample
July
November
February
April

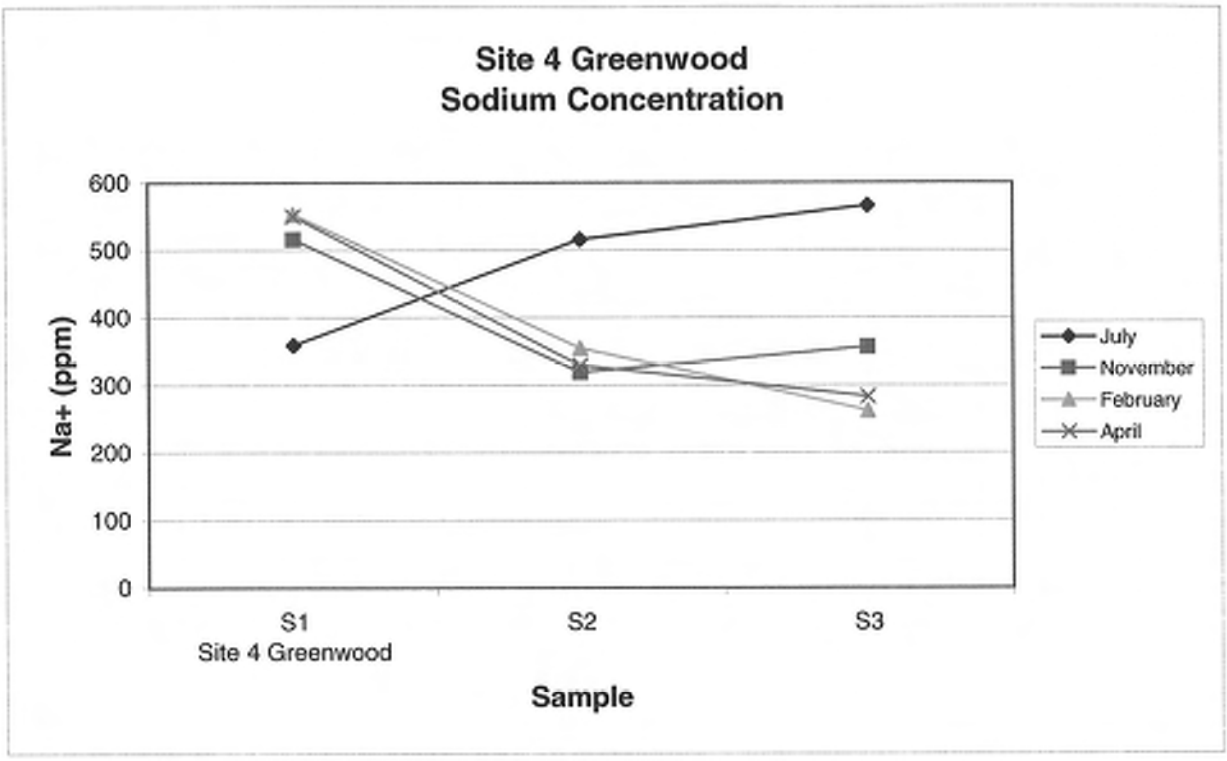

Site 3 Penticton
Chloride Concentration
90
80
70
60
50
40
30
20
10
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

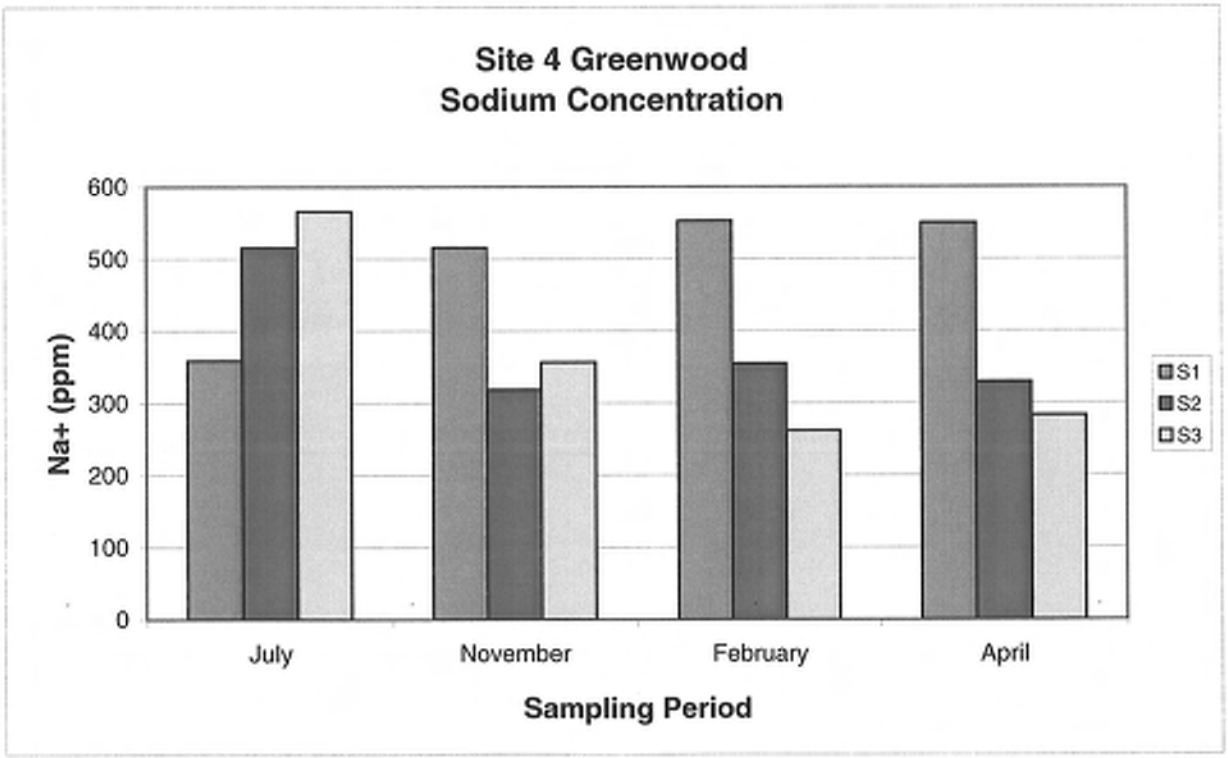

Site 3 Penticton
Sodium Concentration
800
700
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 3 Penticton
S2
S3
Sample
July
November
February
April

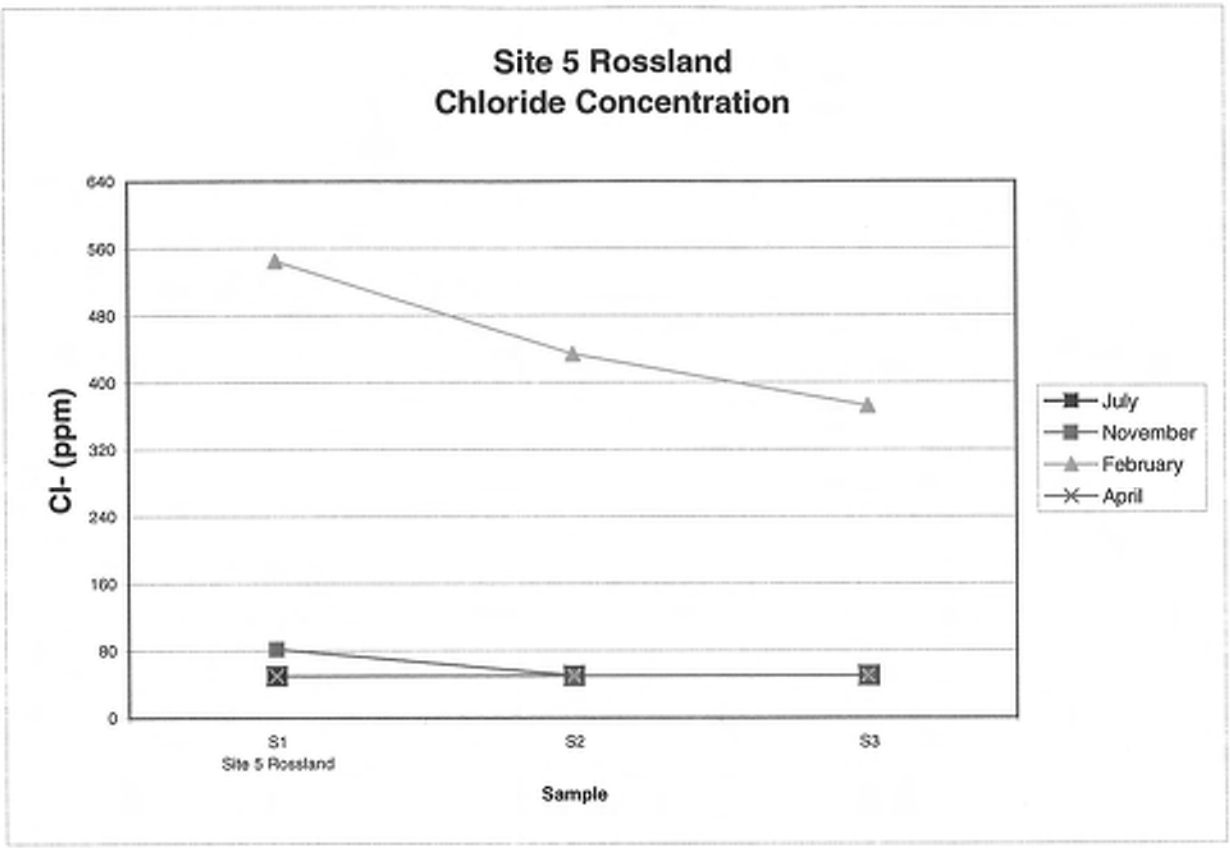

Site 3 Penticton
Sodium Concentration
800
700
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

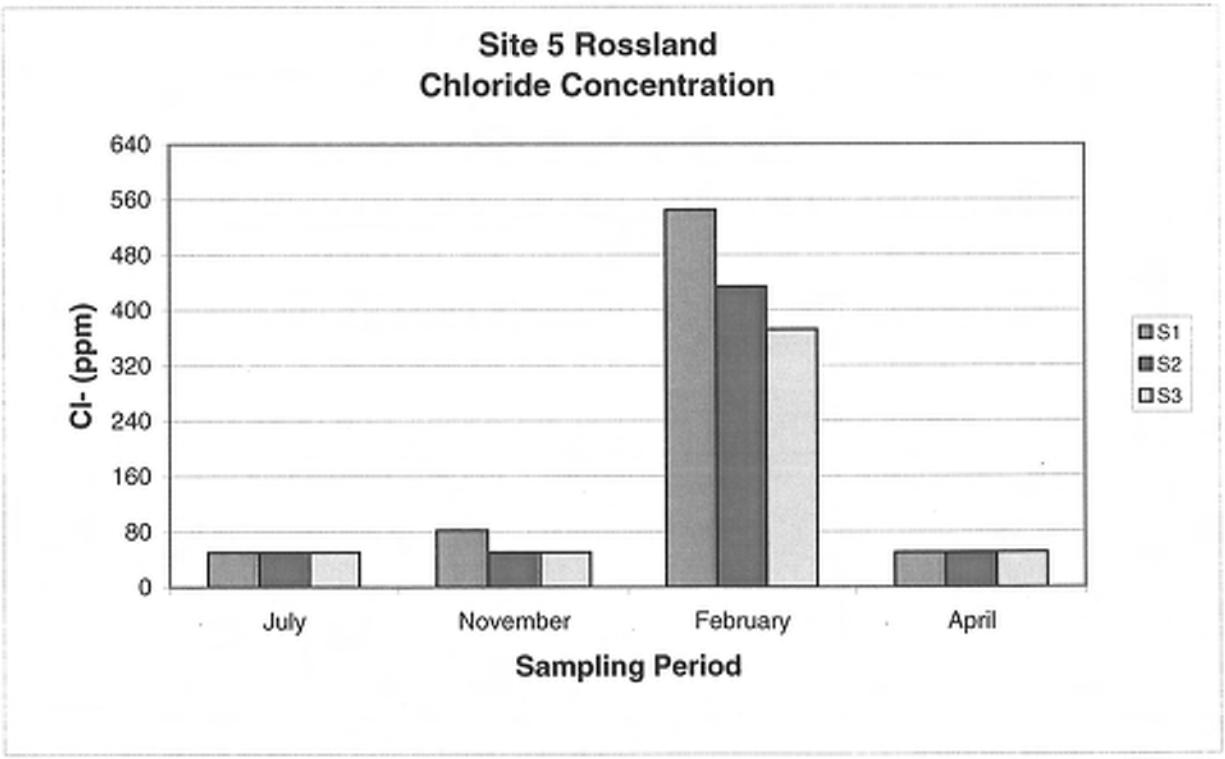

Site 4 Greenwood
Chloride Concentration
July
November
February
April
120
100
80
60
40
20
0
Cl- (ppm)
S1
S2
S3
Site 4 Greenwood
Sample

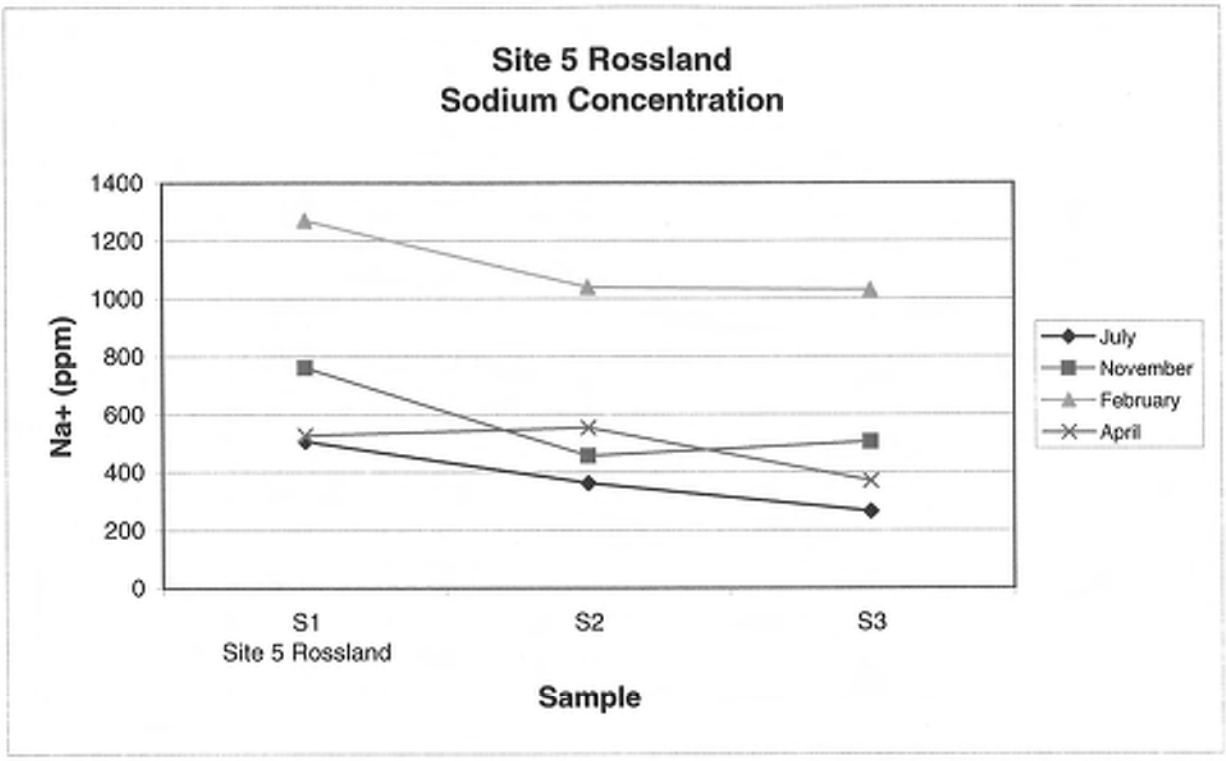

Site 4 Greenwood
Chloride Concentration
120
100
80
60
40
20
0
Cl- (ppm)
S1
S2
S3
July
November
February
April
Sampling Period

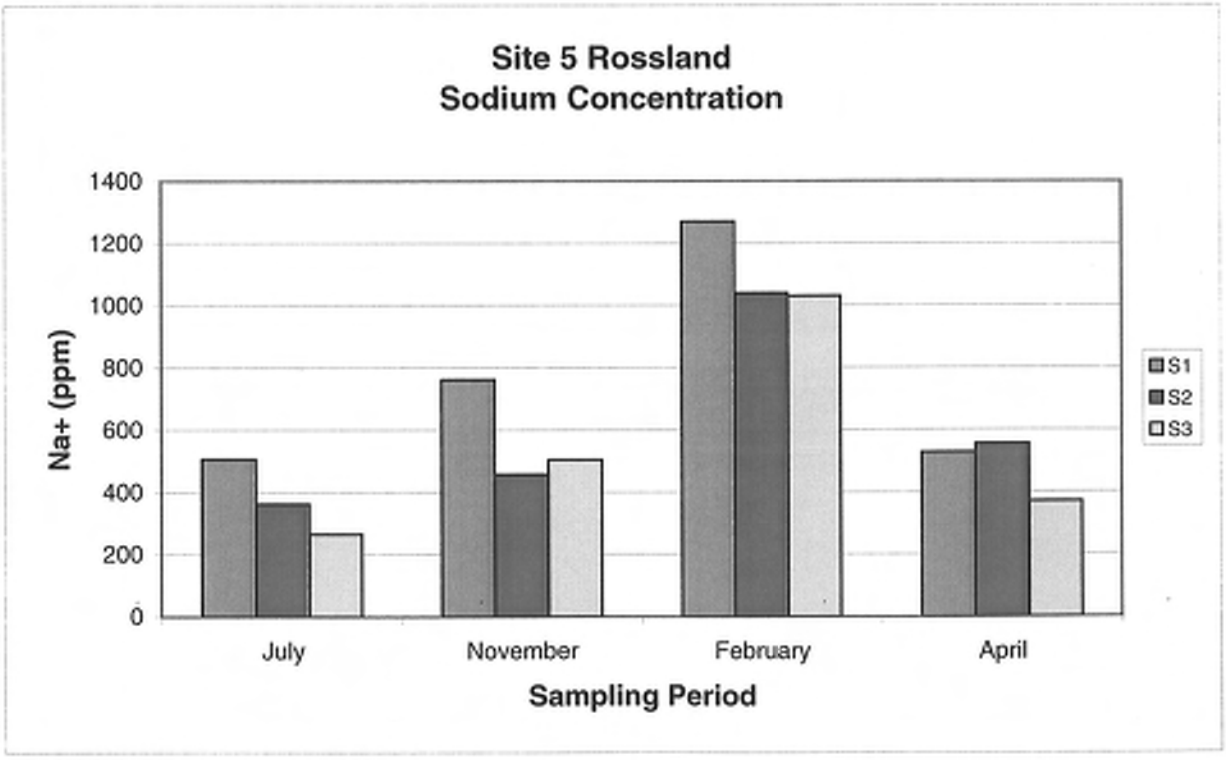

Site 4 Greenwood
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
S1
S2
S3
Site 4 Greenwood
Sample
July
November
February
April

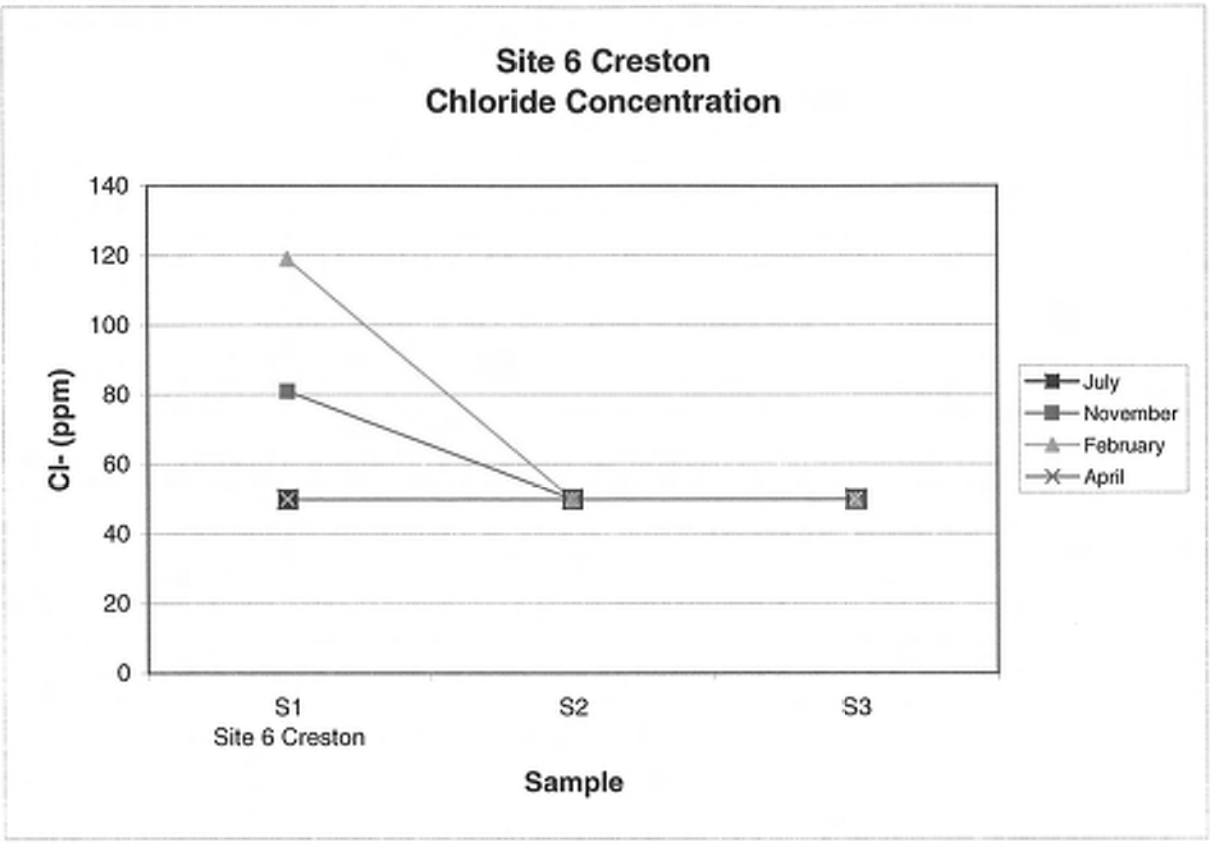

Site 4 Greenwood
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

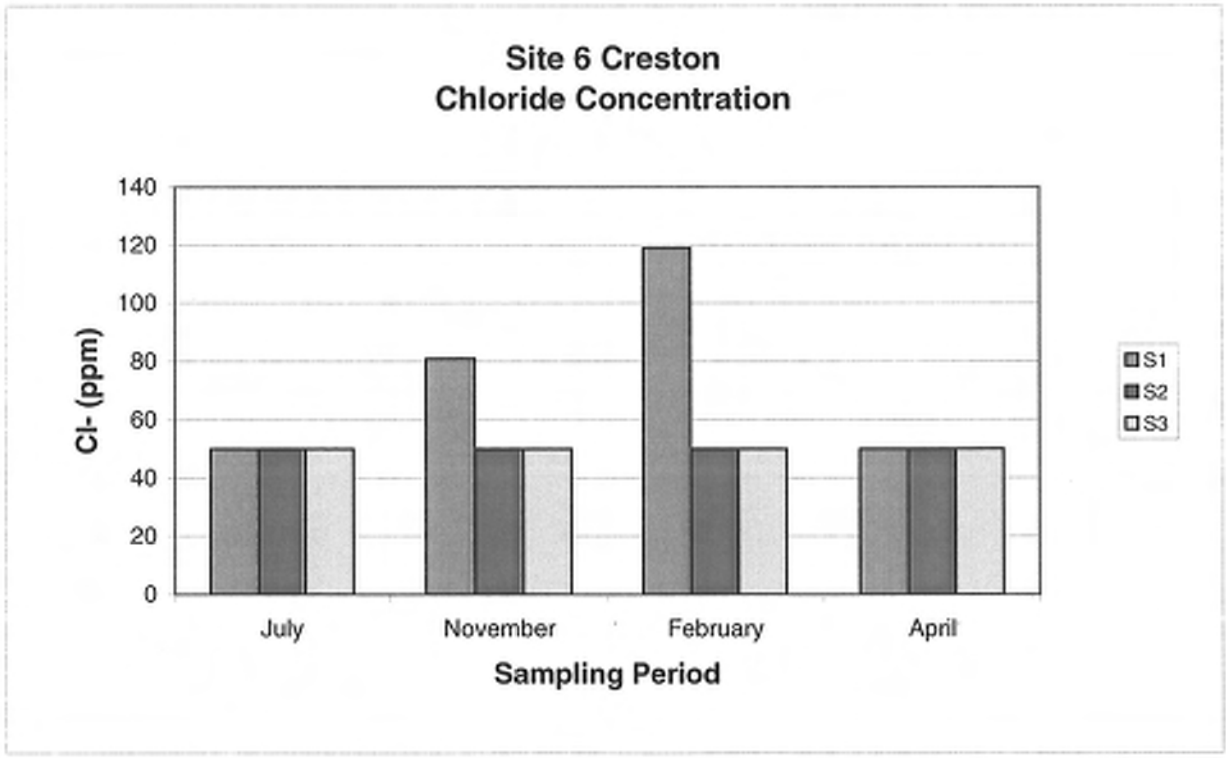

Site 5 Rossland
Chloride Concentration
640
560
480
400
320
240
160
80
0
Cl- (ppm)
S1
Site 5 Rossland
S2
S3
Sample
July
November
February
April

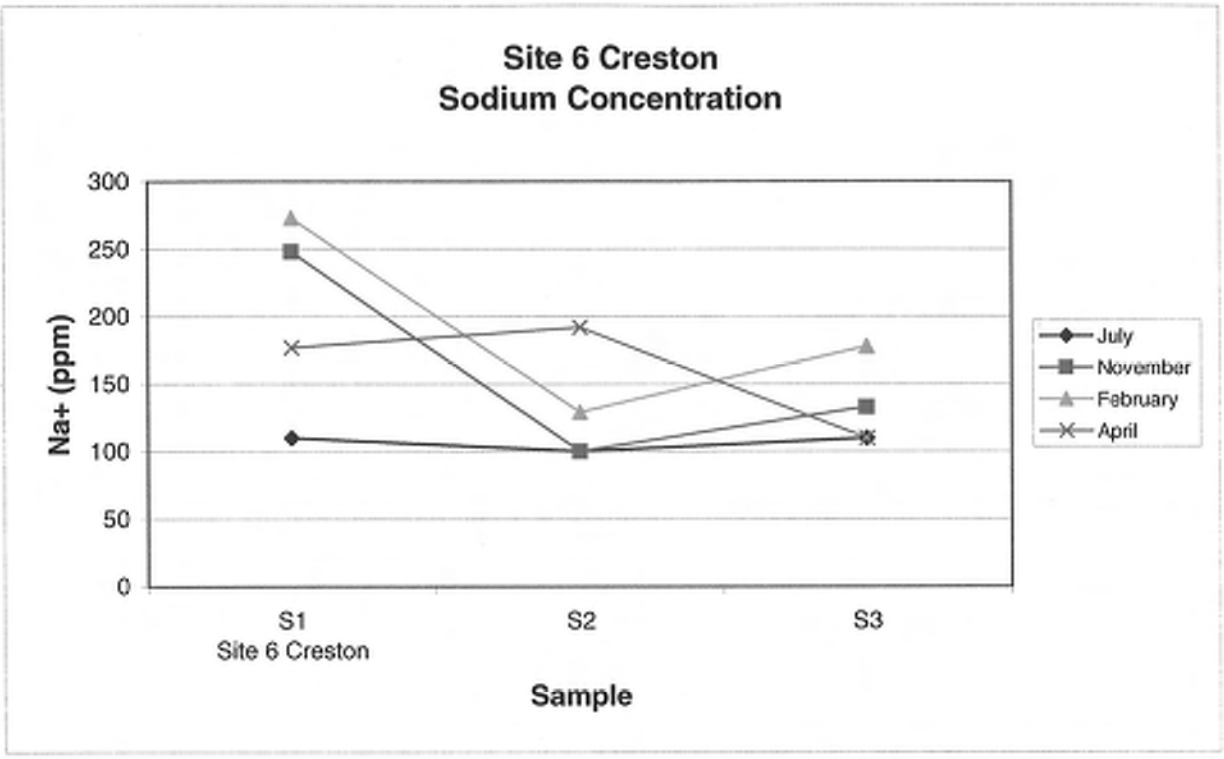

Site 5 Rossland
Chloride Concentration
640
560
480
400
320
240
160
80
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

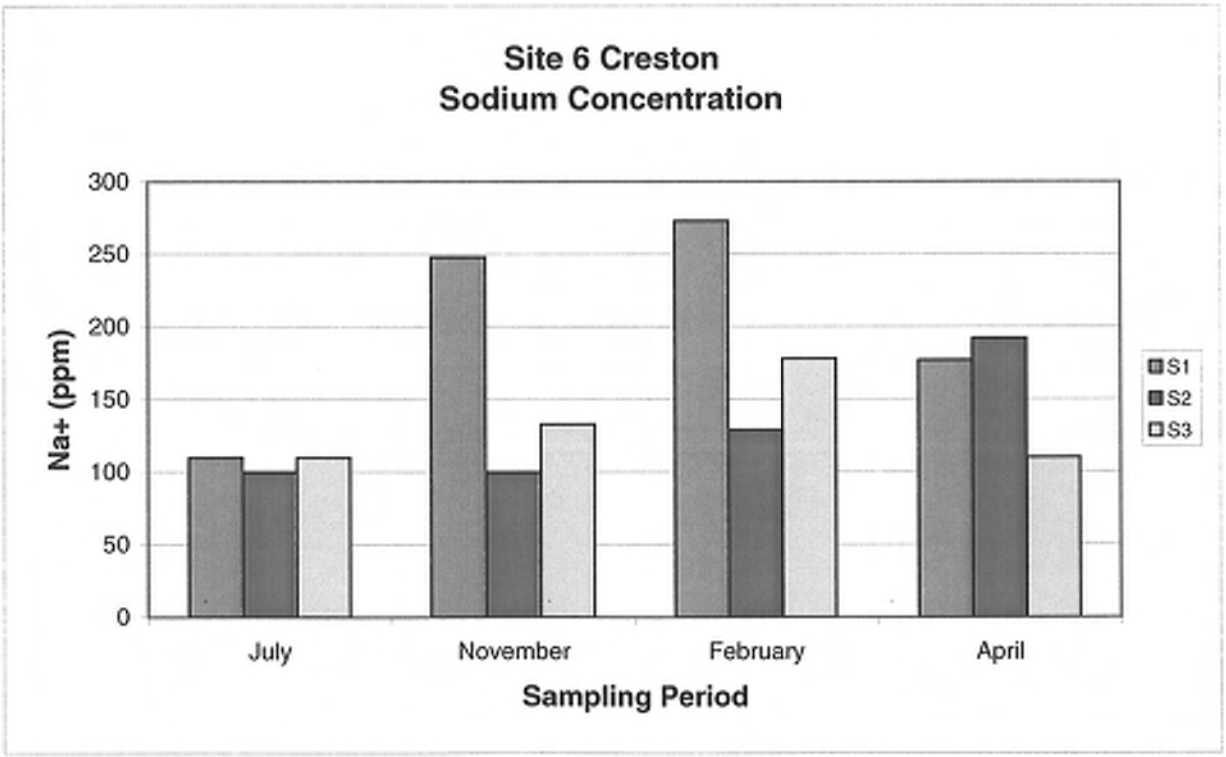

Site 5 Rossland
Sodium Concentration
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
S1
S2
S3
Site 5 Rossland
Sample
July
November
February
April

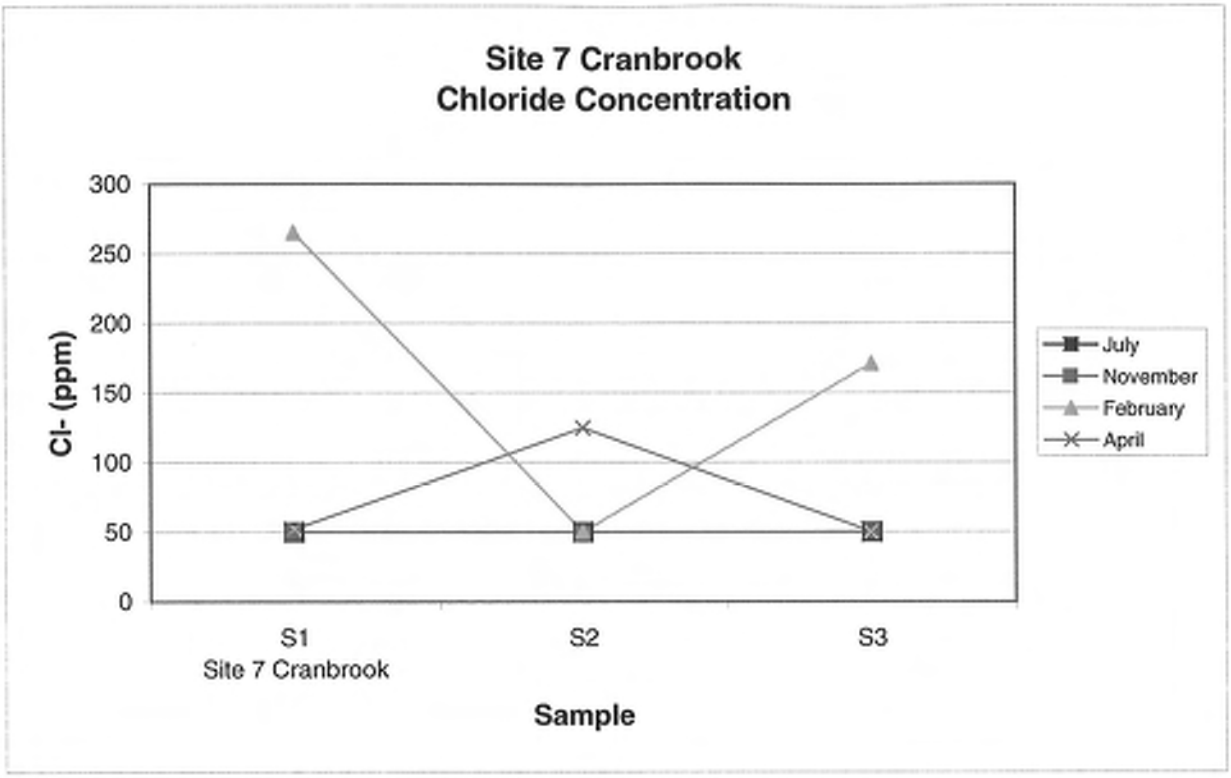

Site 5 Rossland
Sodium Concentration
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

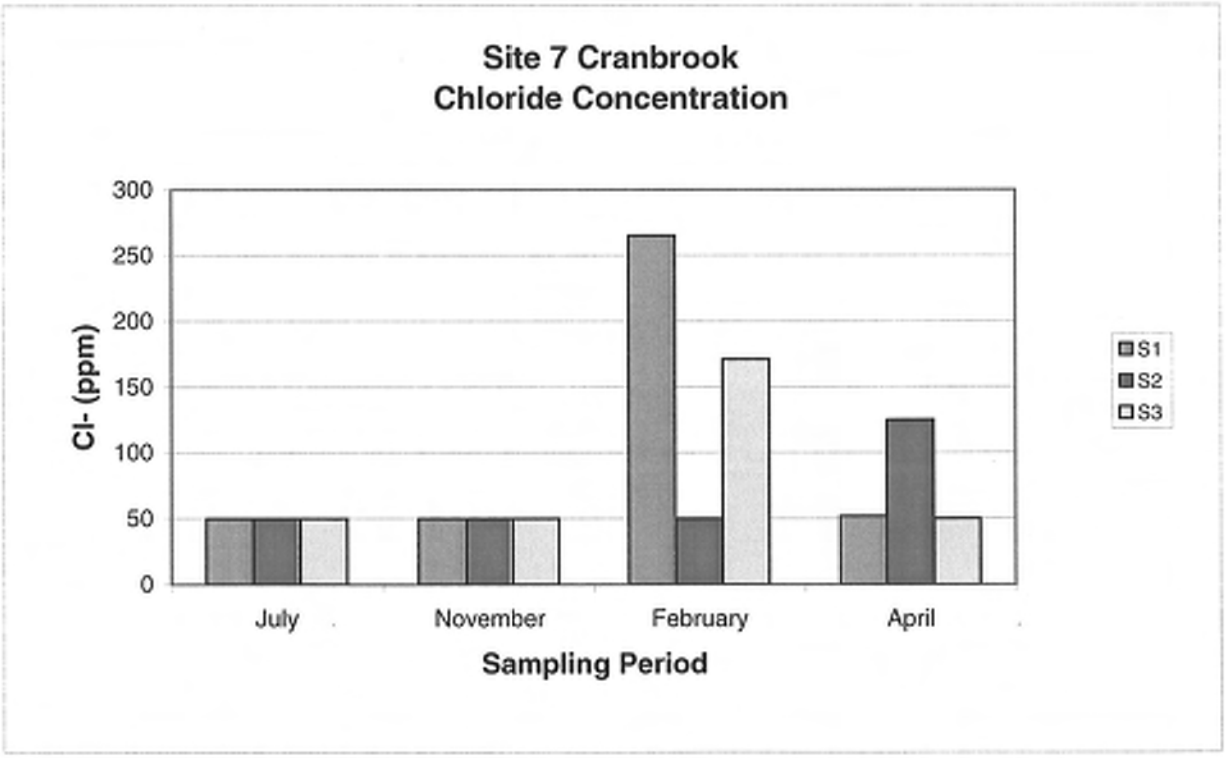

Site 6 Creston
Chloride Concentration
140
120
100
80
60
40
20
0
Cl- (ppm)
S1
Site 6 Creston
S2
S3
Sample
July
November
February
April

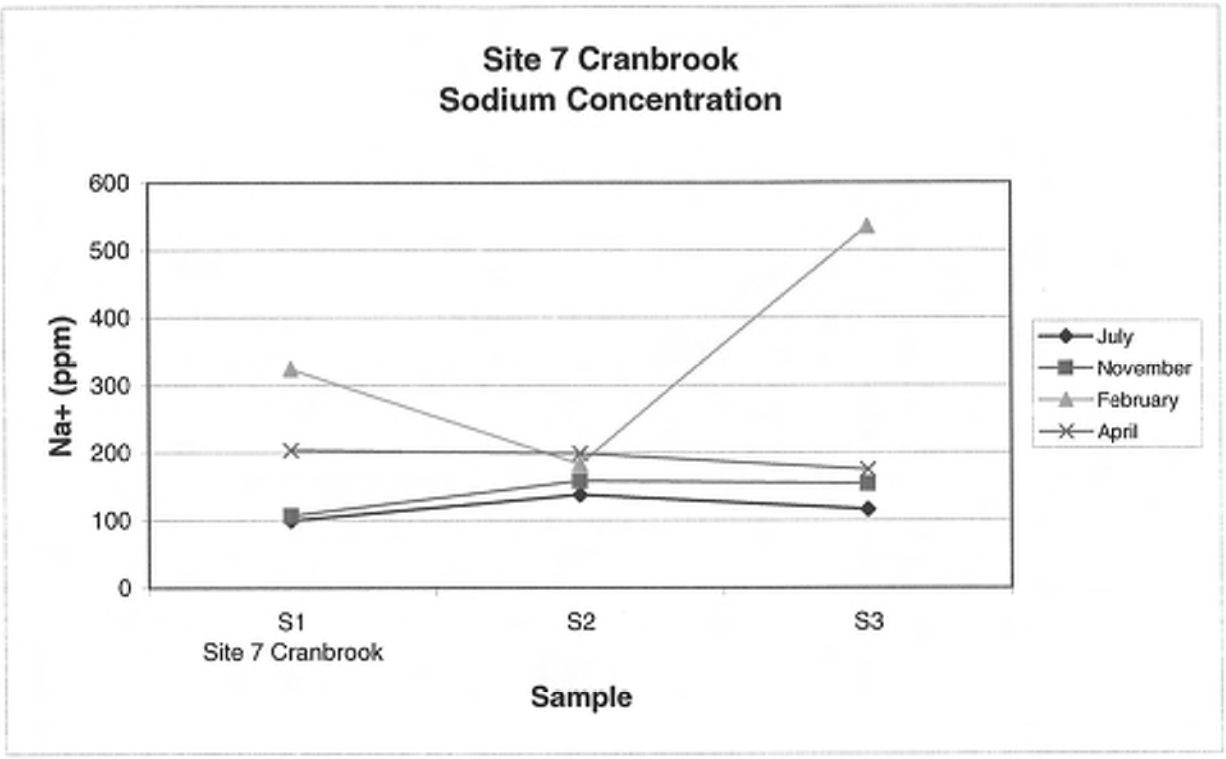

Site 6 Creston
Chloride Concentration
140
120
100
80
60
40
20
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

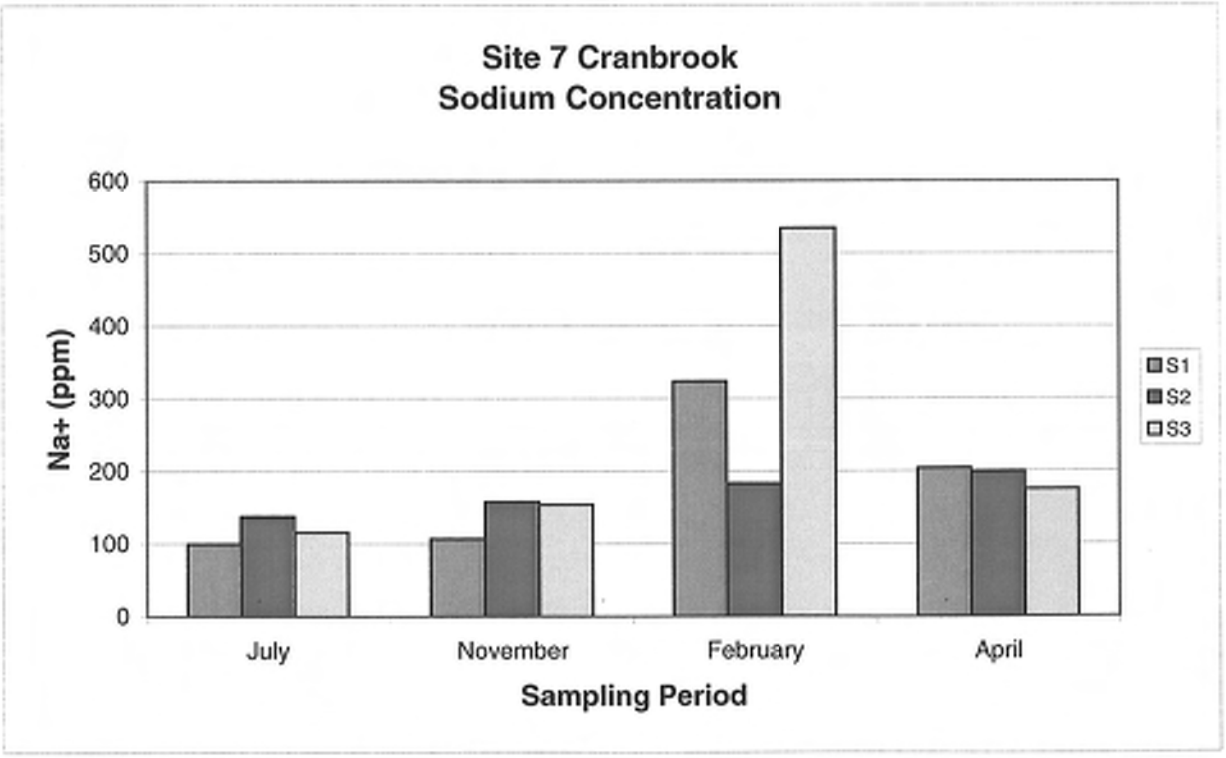

Site 6 Creston
Sodium Concentration
300
250
200
150
100
50
0
Na+ (ppm)
S1
Site 6 Creston
S2
S3
Sample
July
November
February
April

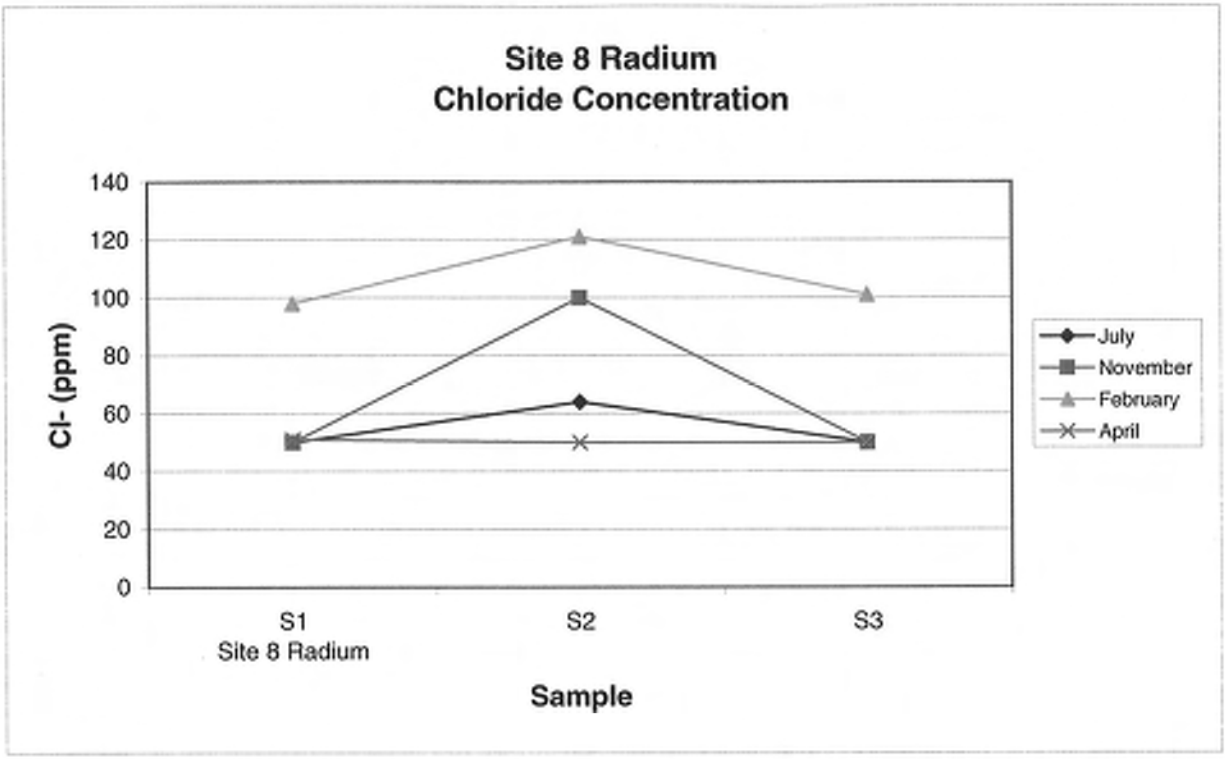

Site 6 Creston
Sodium Concentration
300
250
200
150
100
50
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

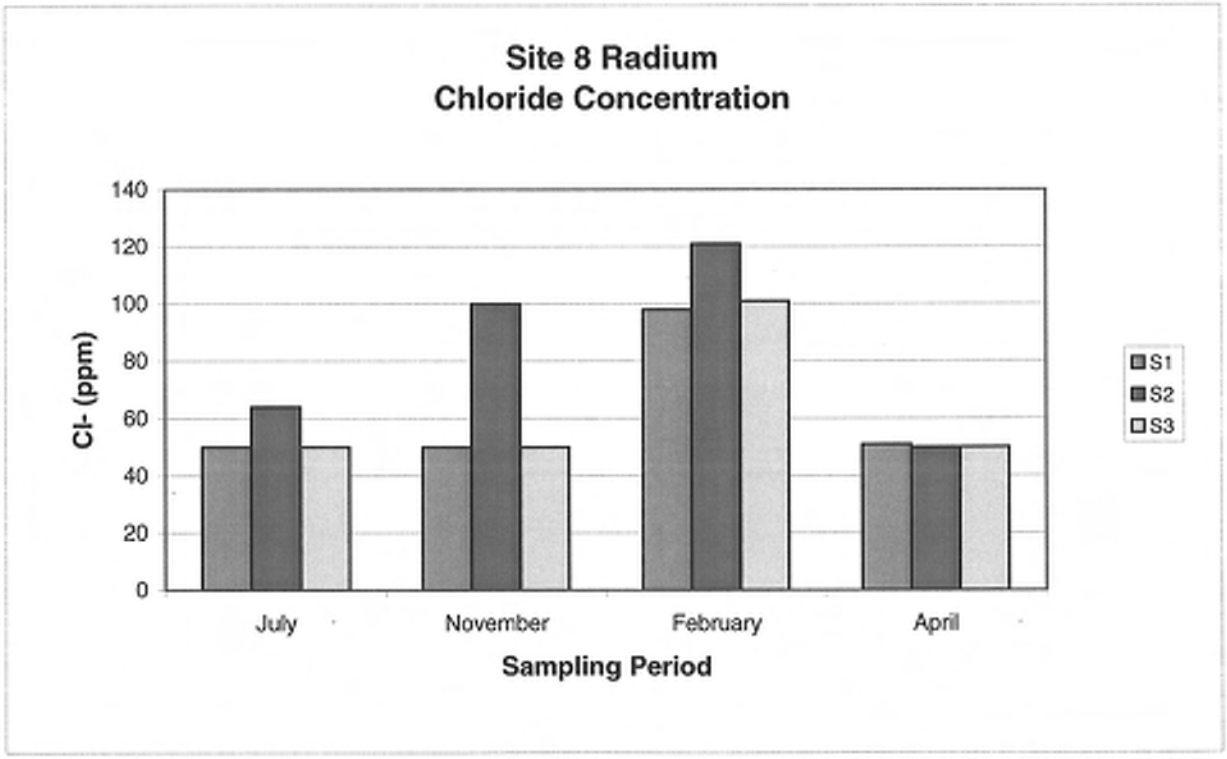

Site 7 Cranbrook
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
July
November
February
April
S1
S2
S3
Site 7 Cranbrook
Sample

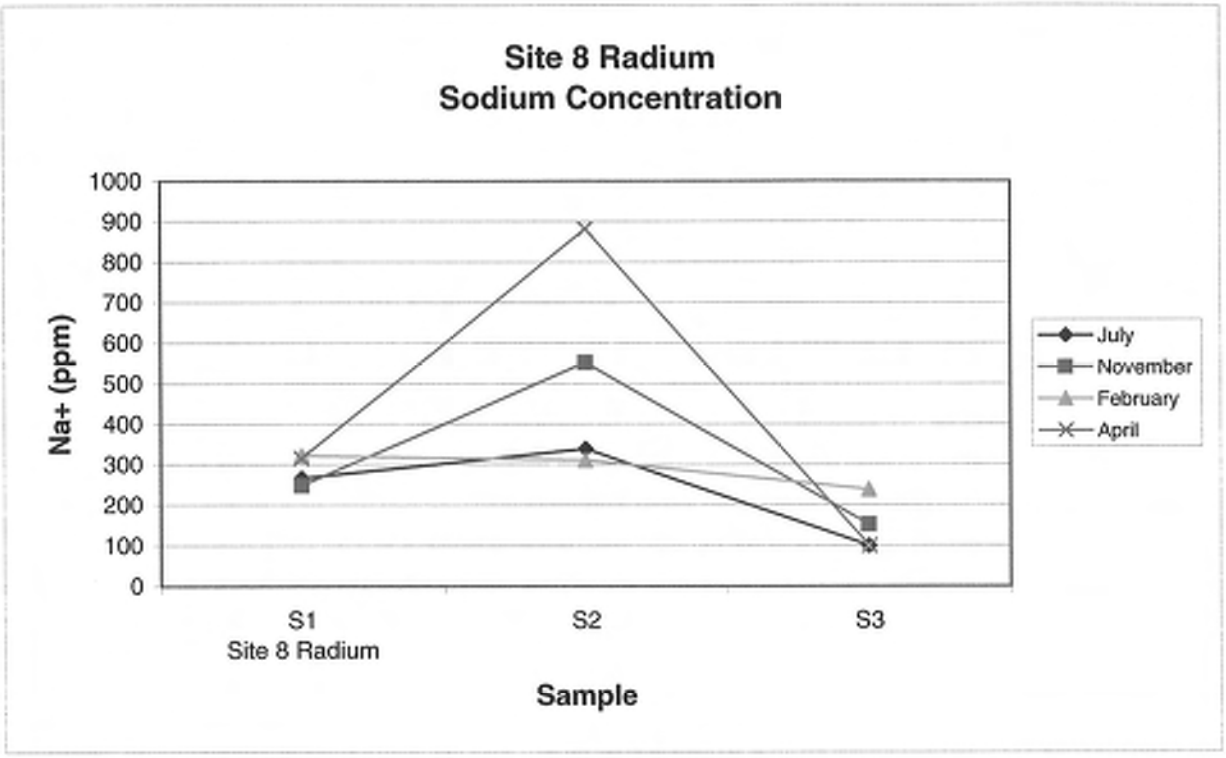

Site 7 Cranbrook
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
S1
S2
S3
July
November
February
April
Sampling Period

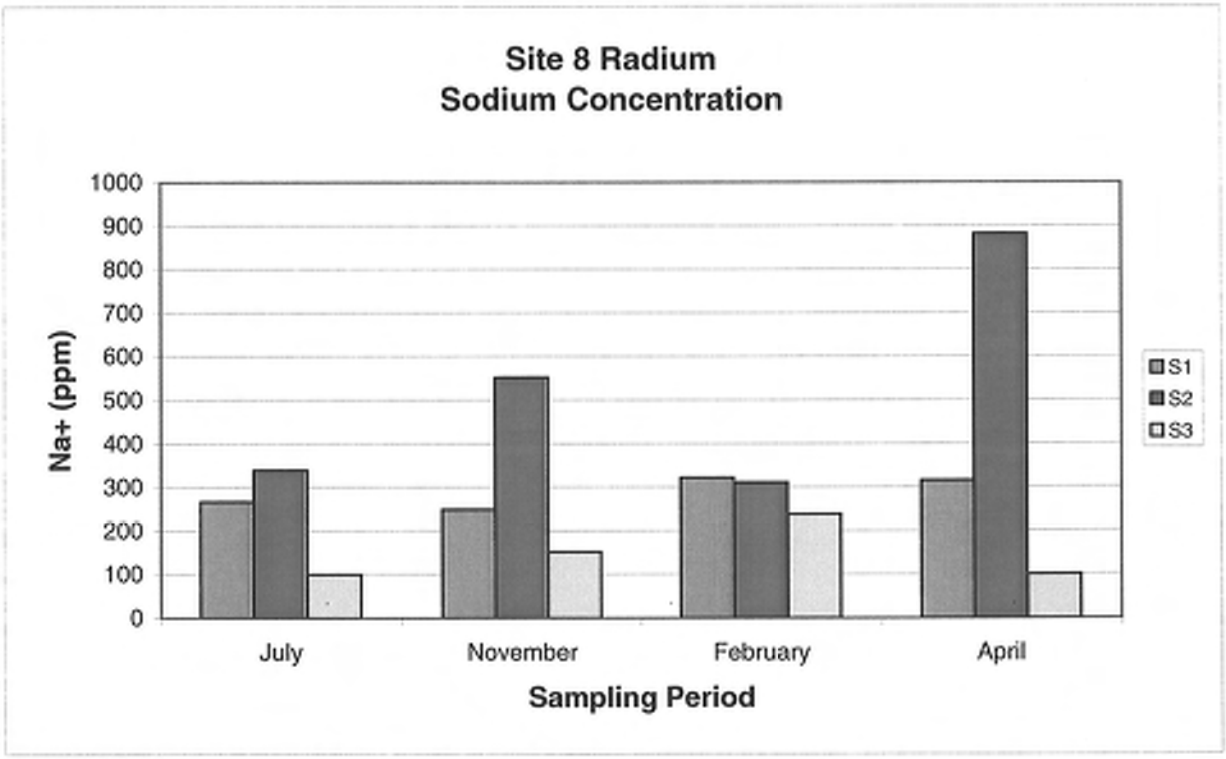

Site 7 Cranbrook
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
S1
S2
S3
Site 7 Cranbrook
Sample
July
November
February
April

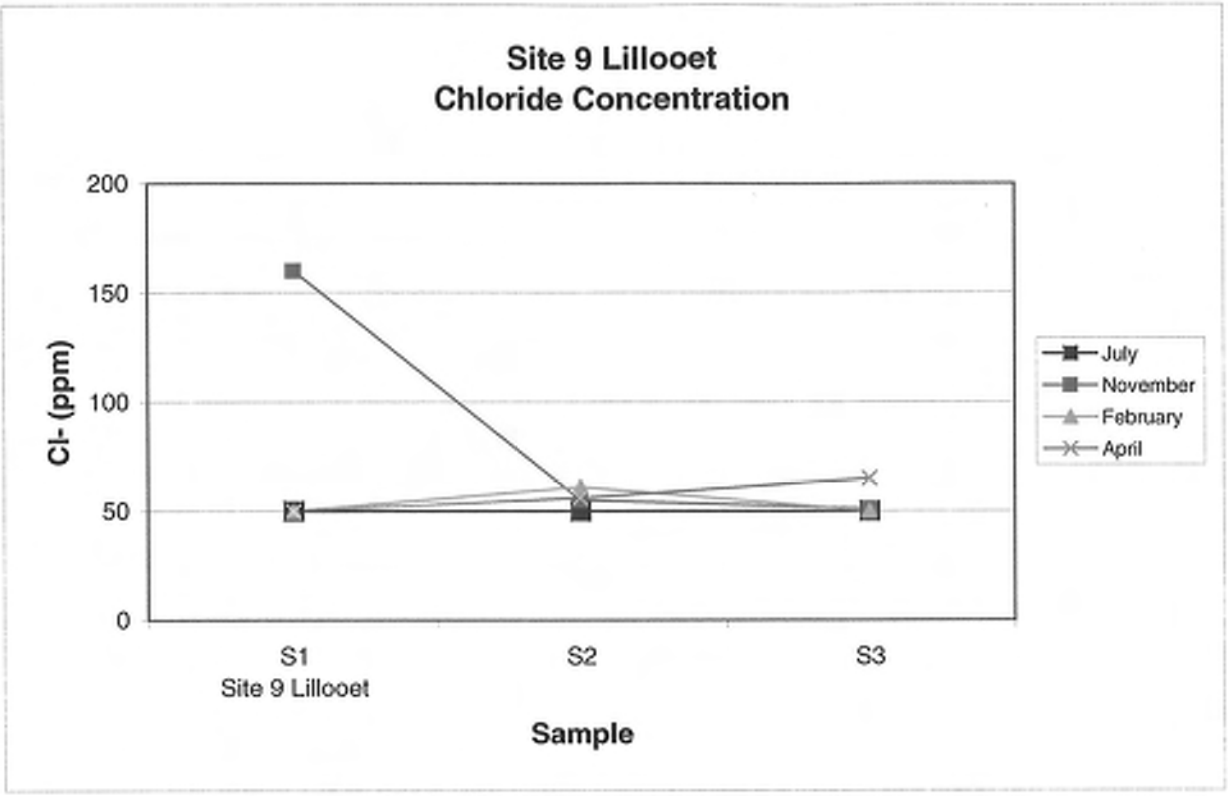

Site 7 Cranbrook
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

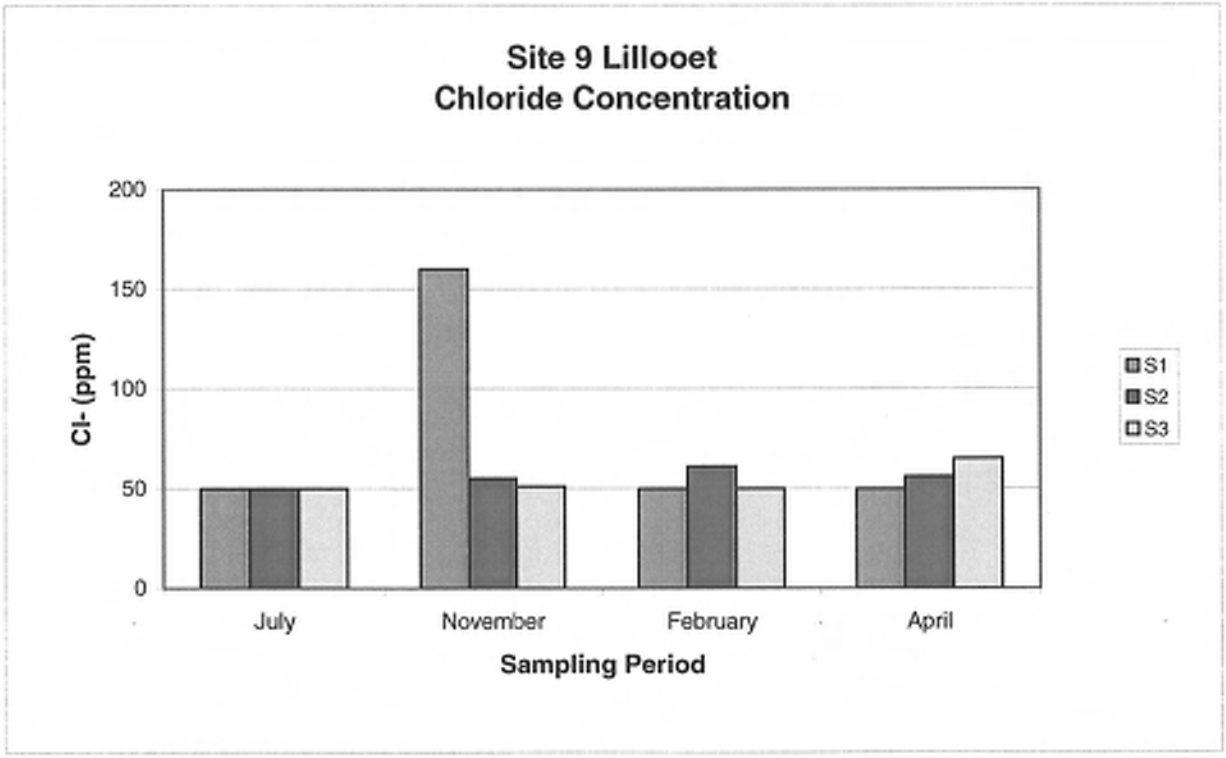

Site 8 Radium
Chloride Concentration
140
120
100
80
60
40
20
0
Cl- (ppm)
S1
Site 8 Radium
S2
S3
Sample
July
November
February
April

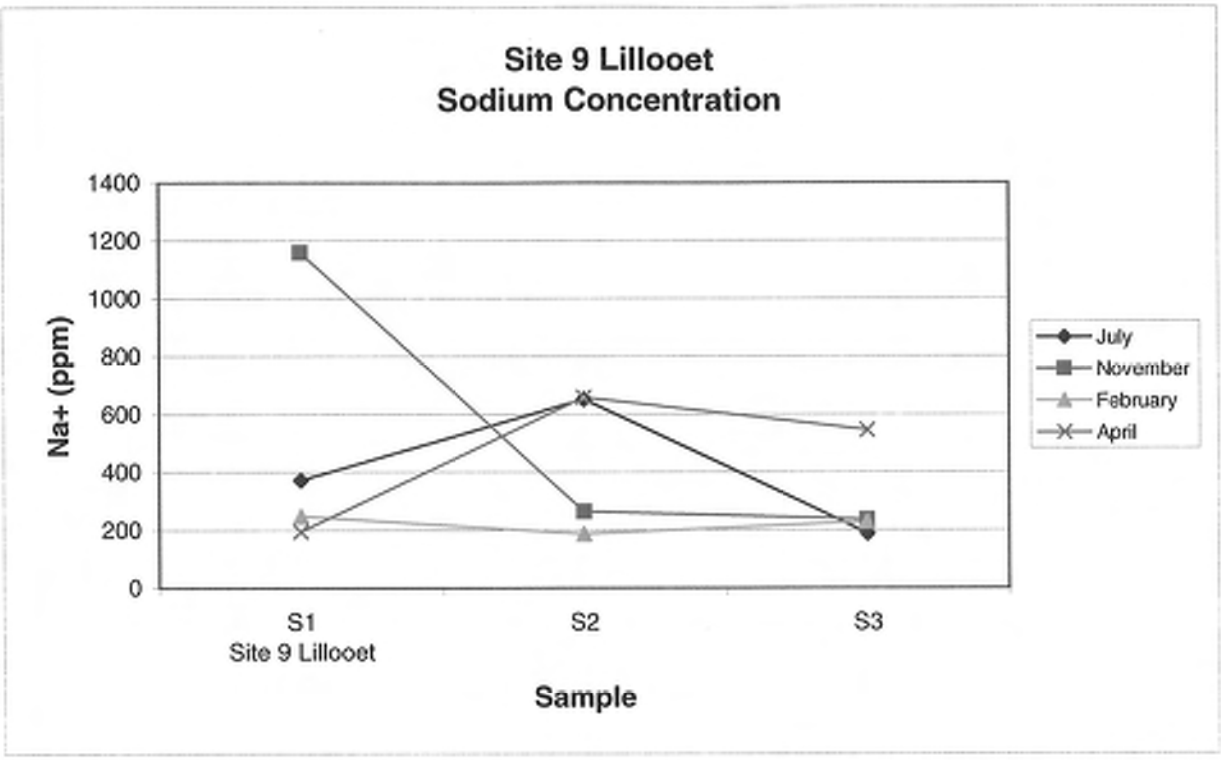

Site 8 Radium
Chloride Concentration
140
120
100
80
60
40
20
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

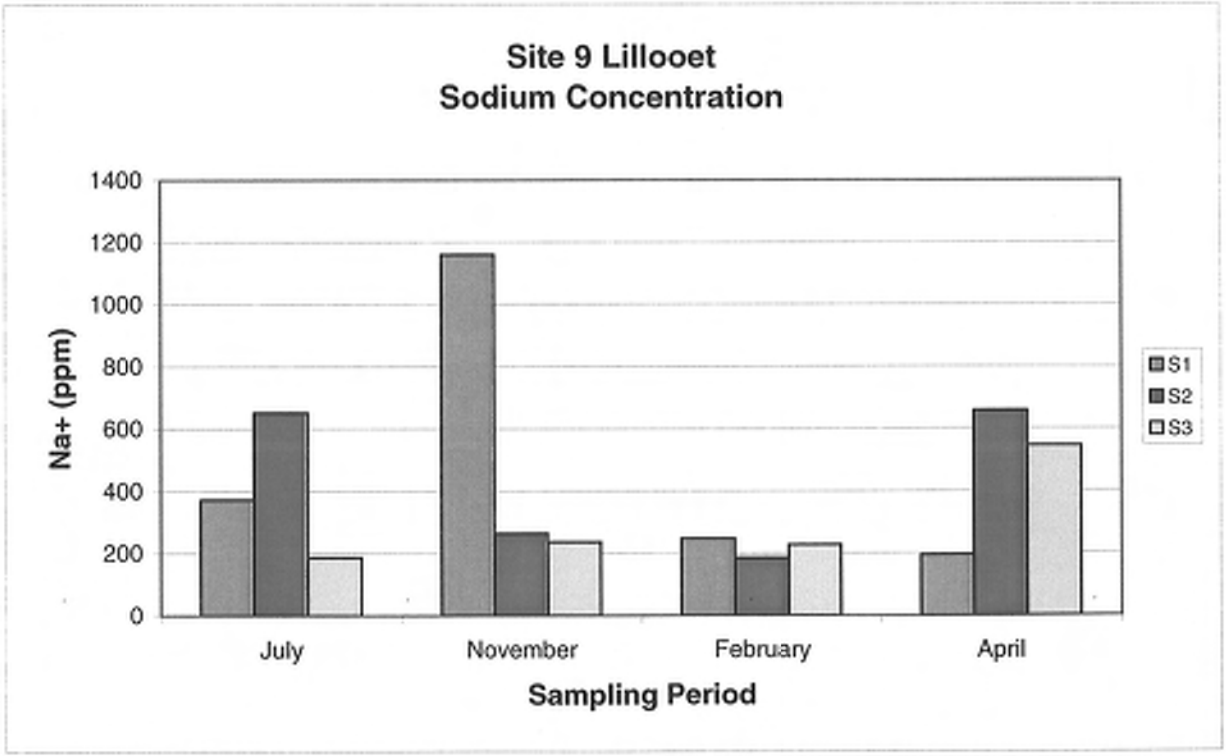

Site 8 Radium
Sodium Concentration
Na+ (ppm)
1000
900
800
700
600
500
400
300
200
100
0
S1
Site 8 Radium
S2
S3
Sample
July
November
February
April

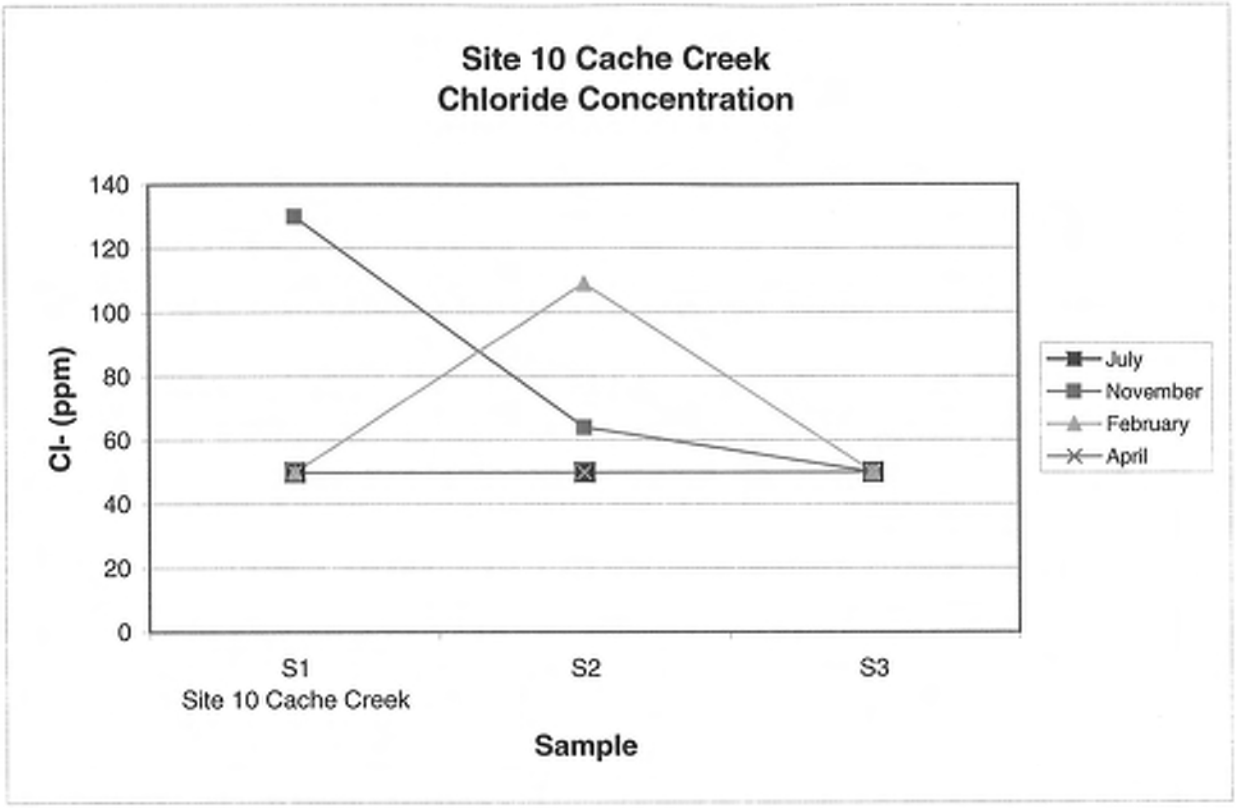

Site 8 Radium
Sodium Concentration
Na+ (ppm)
1000
900
800
700
600
500
400
300
200
100
0
July
November
February
April
Sampling Period
S1
S2
S3

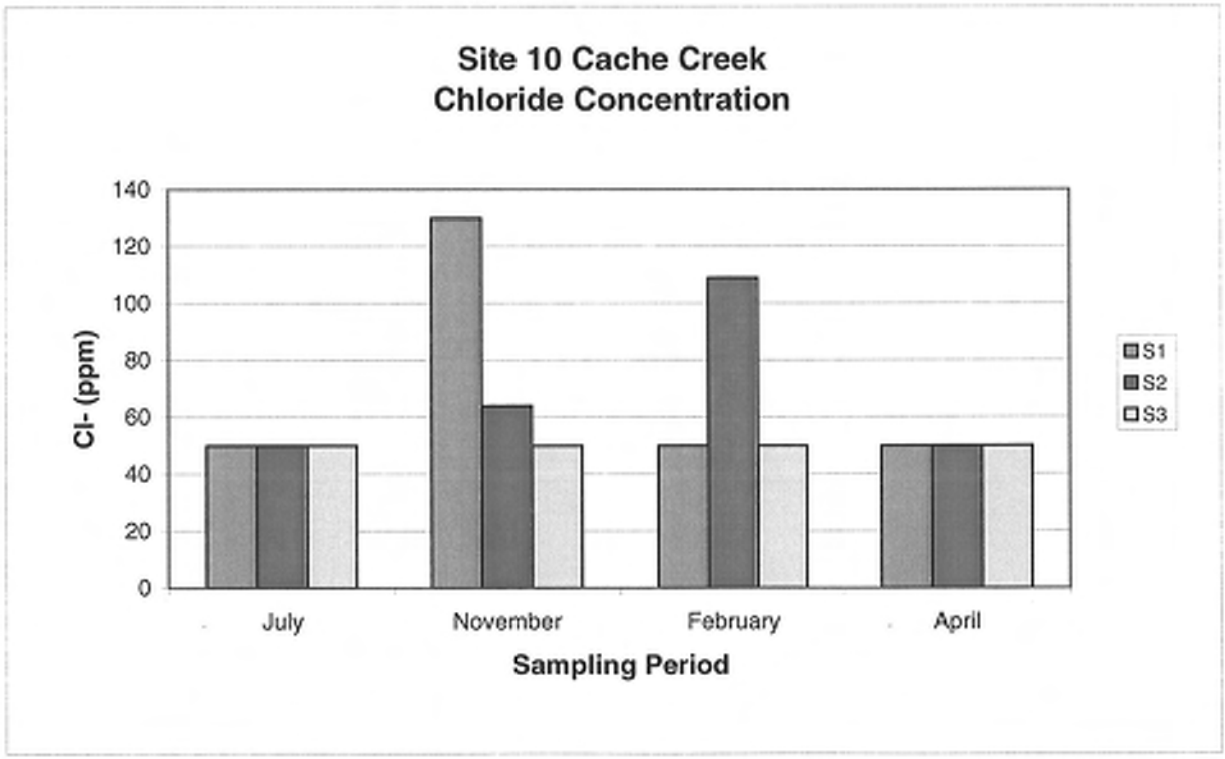

Site 9 Lillooet
Chloride Concentration
200
150
100
50
0
Cl- (ppm)
S1
S2
S3
Site 9 Lillooet
Sample
July
November
February
April

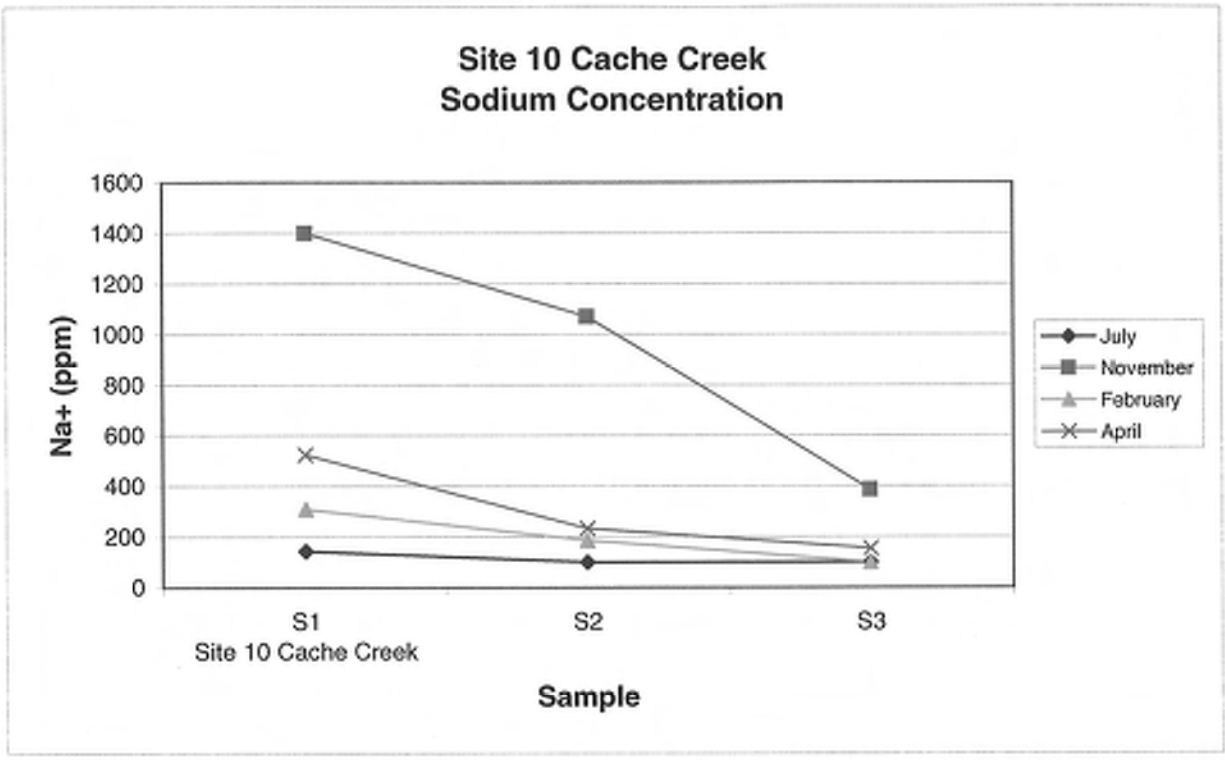

Site 9 Lillooet
Chloride Concentration
200
150
100
50
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

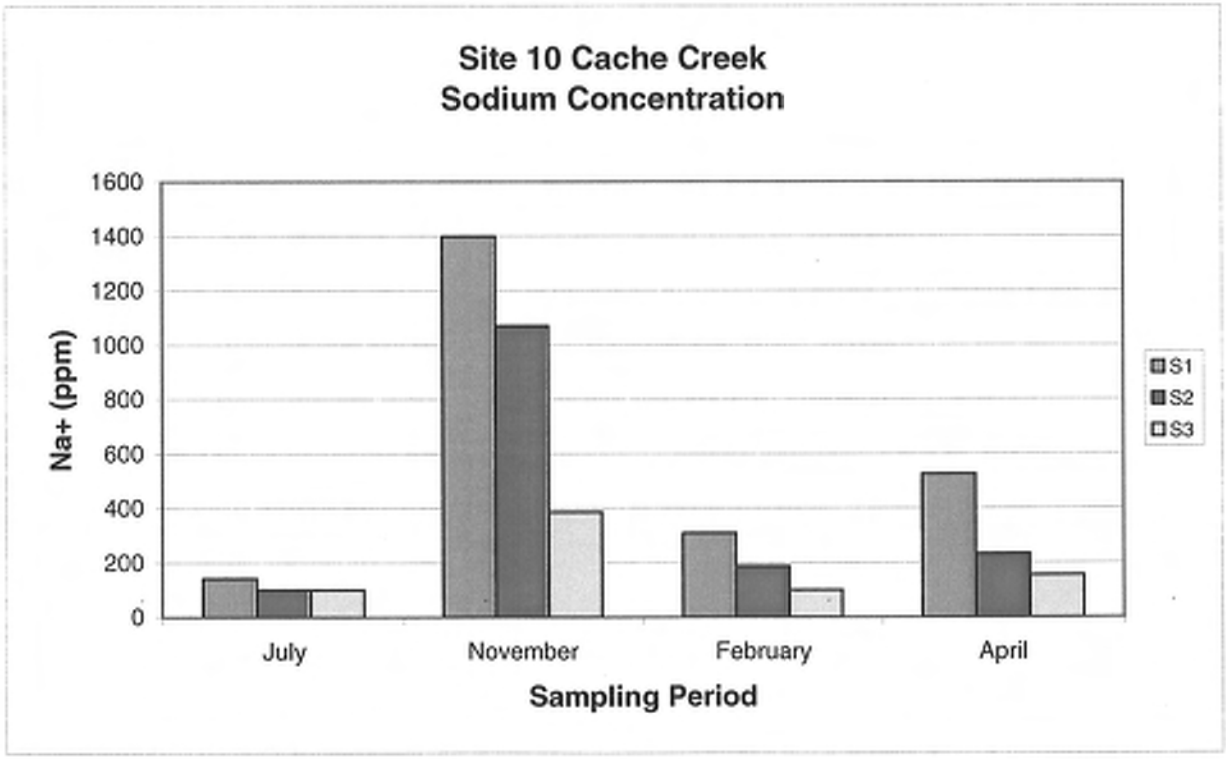

Site 9 Lillooet
Sodium Concentration
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
S1
Site 9 Lillooet
S2
S3
Sample
July
November
February
April

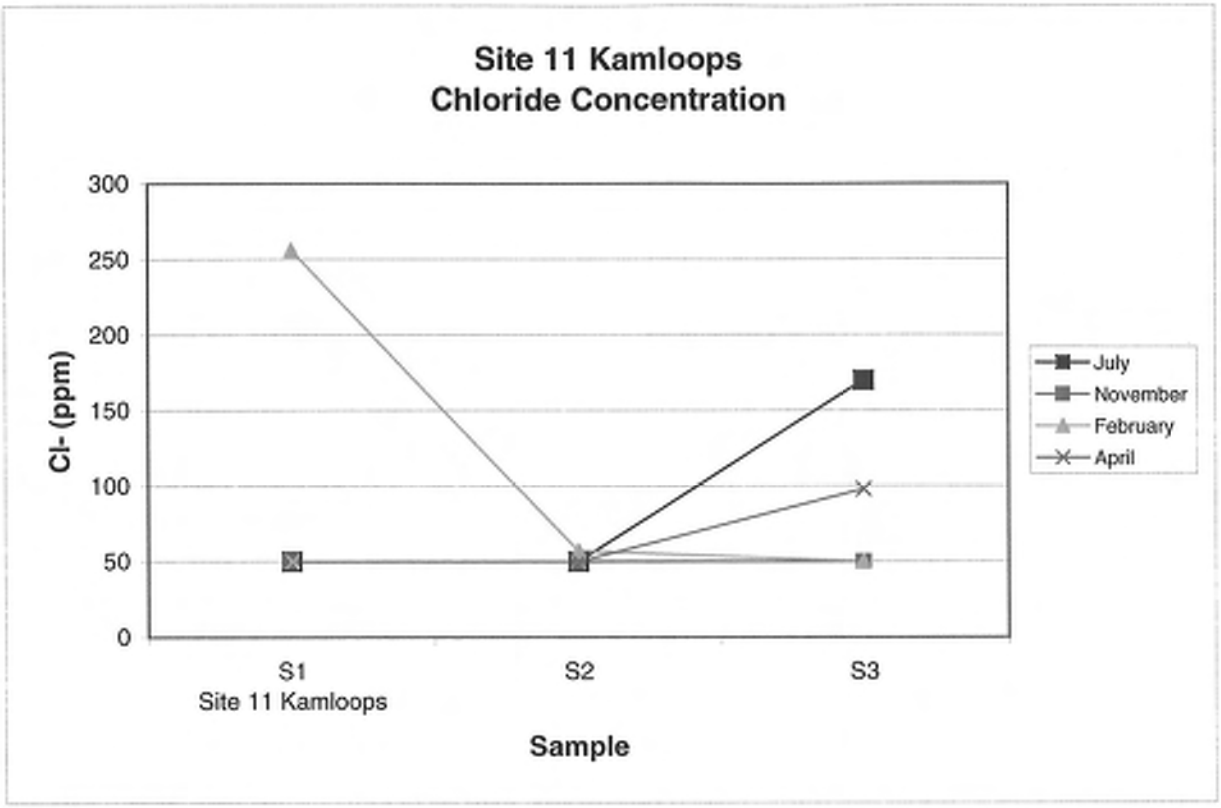

Site 9 Lillooet
Sodium Concentration
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

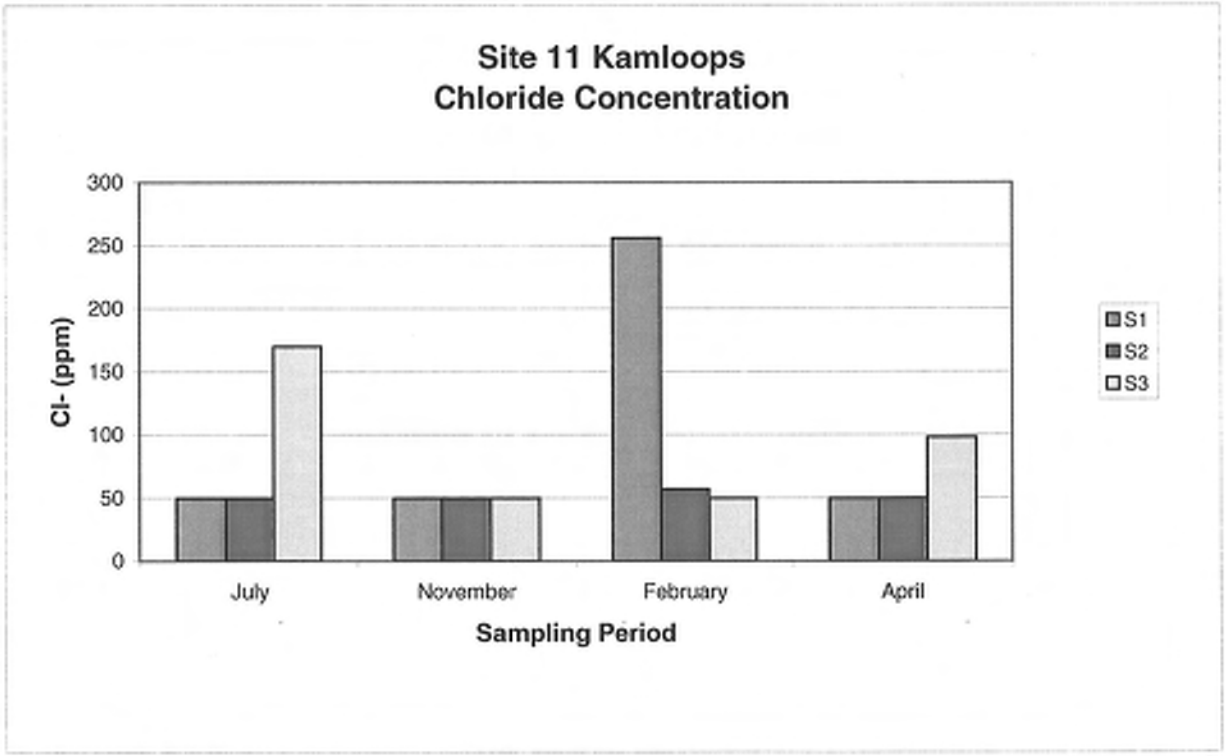

Site 10 Cache Creek
Chloride Concentration
140
120
100
80
60
40
20
0
Cl- (ppm)
S1
S2
S3
Site 10 Cache Creek
Sample
July
November
February
April

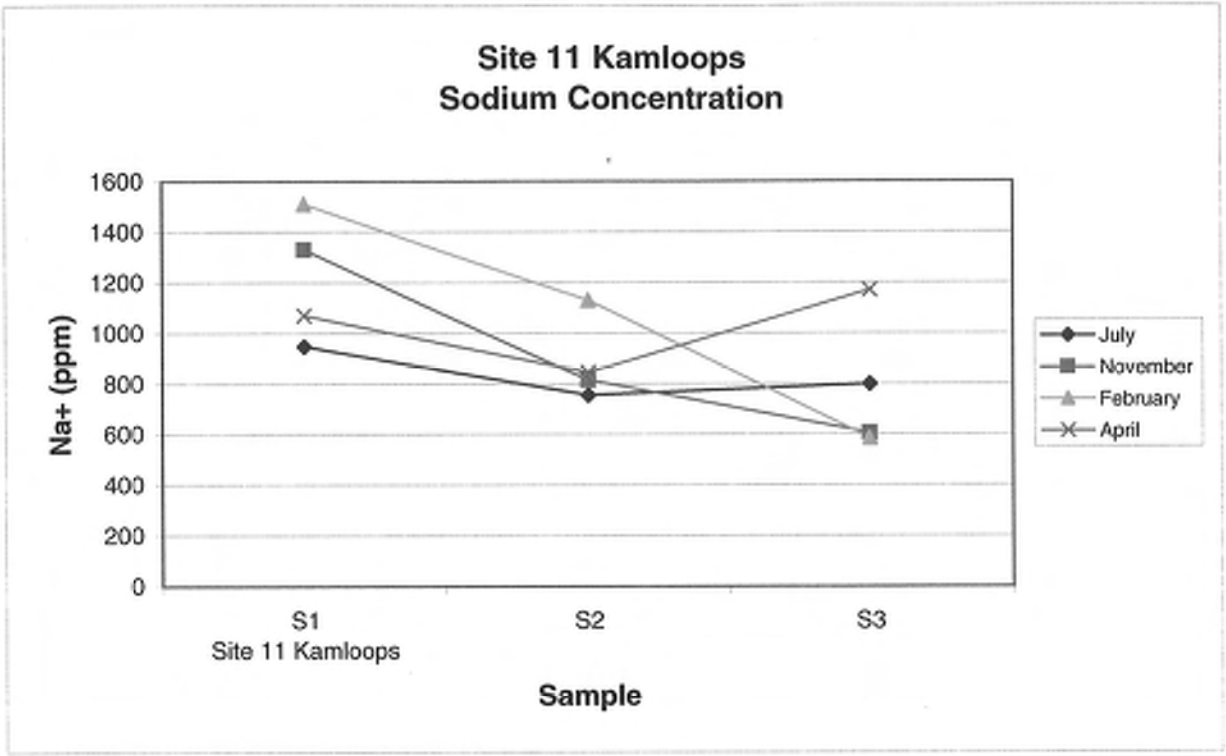

Site 10 Cache Creek
Chloride Concentration
140
120
100
80
60
40
20
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

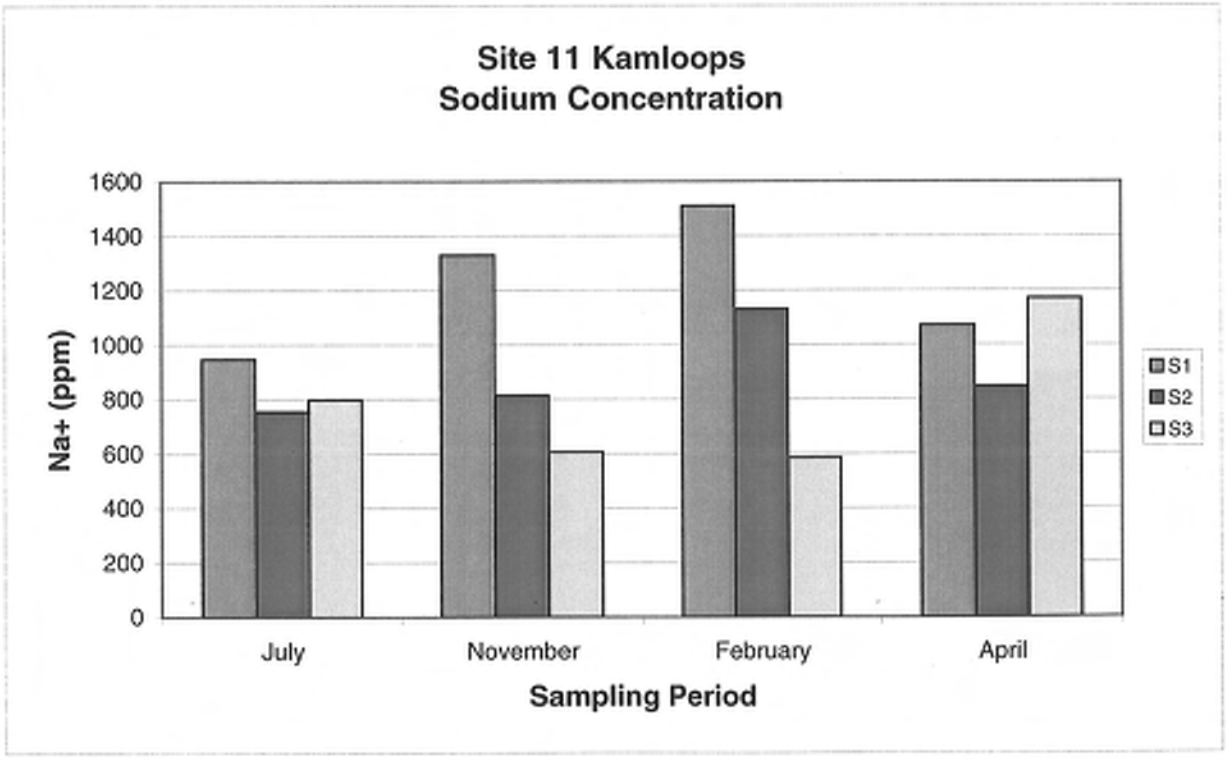

Site 10 Cache Creek
Sodium Concentration
1600
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
S1
S2
S3
Site 10 Cache Creek
Sample
July
November
February
April

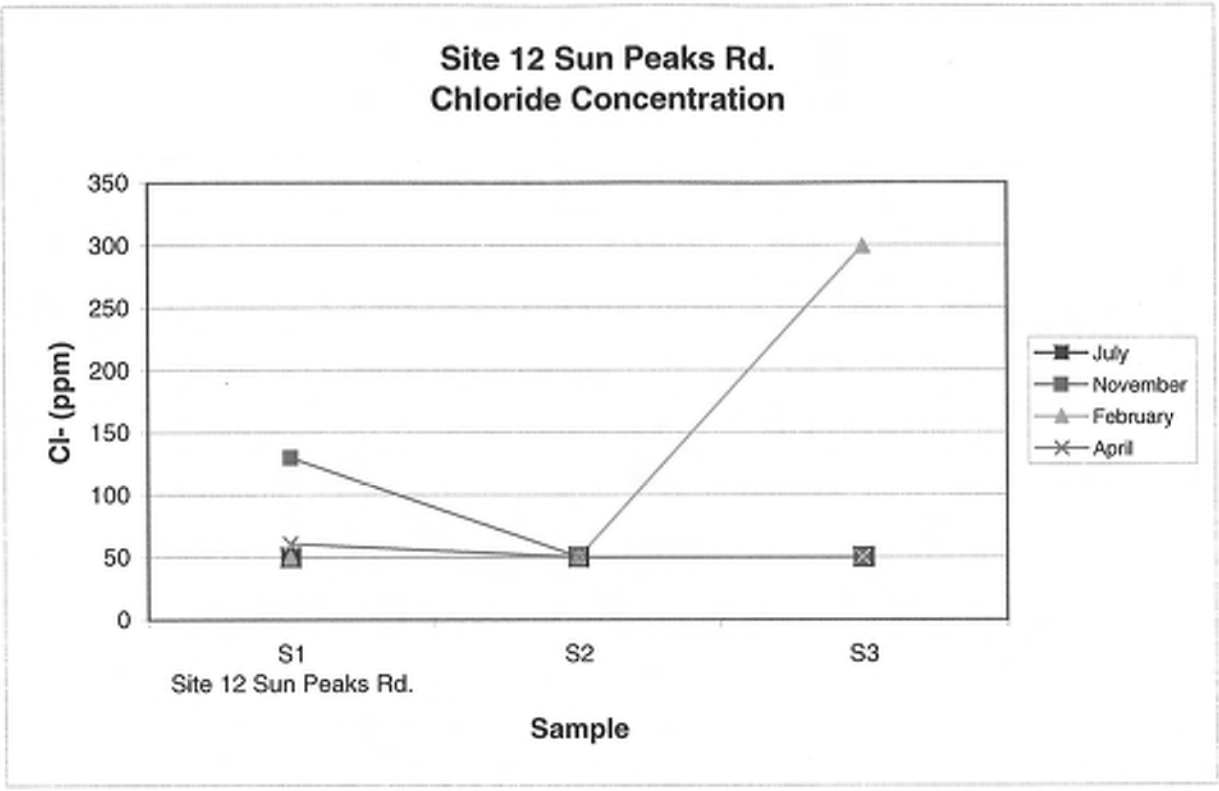

Site 10 Cache Creek
Sodium Concentration
1600
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

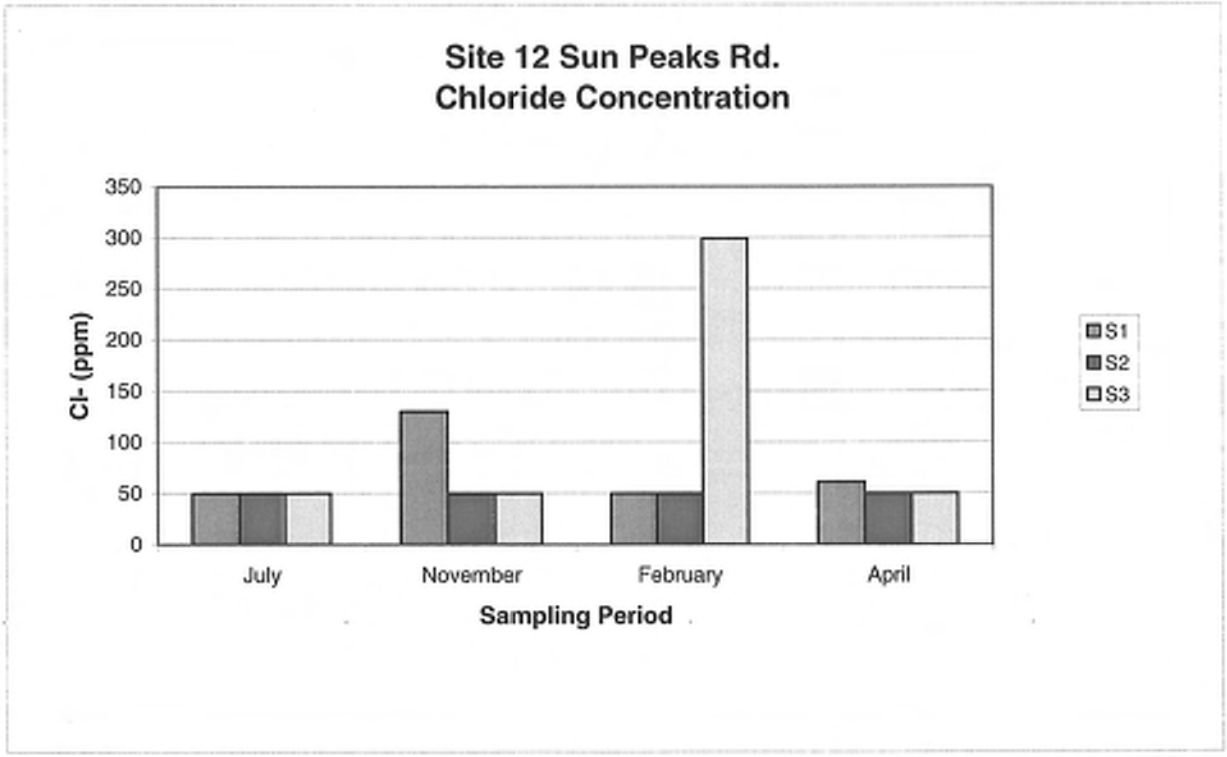

Site 11 Kamloops
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
S1
S2
S3
Site 11 Kamloops
Sample
July
November
February
April

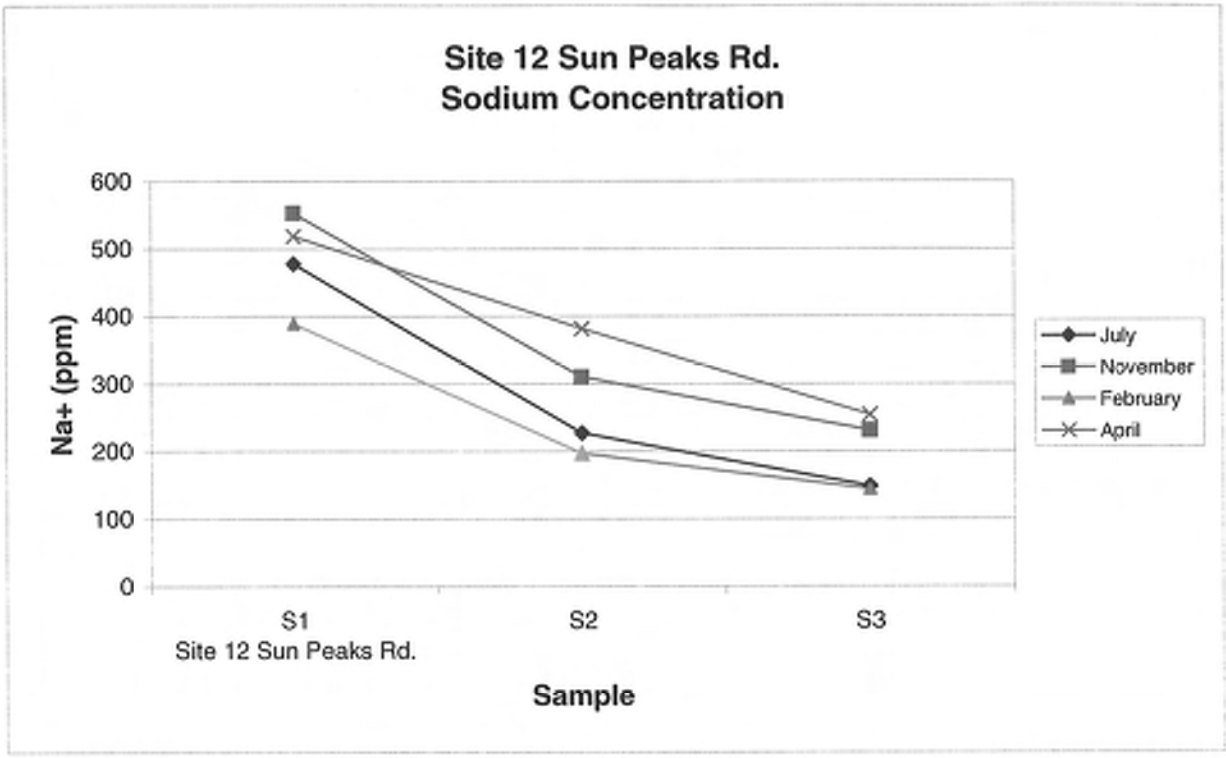

Site 11 Kamloops
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

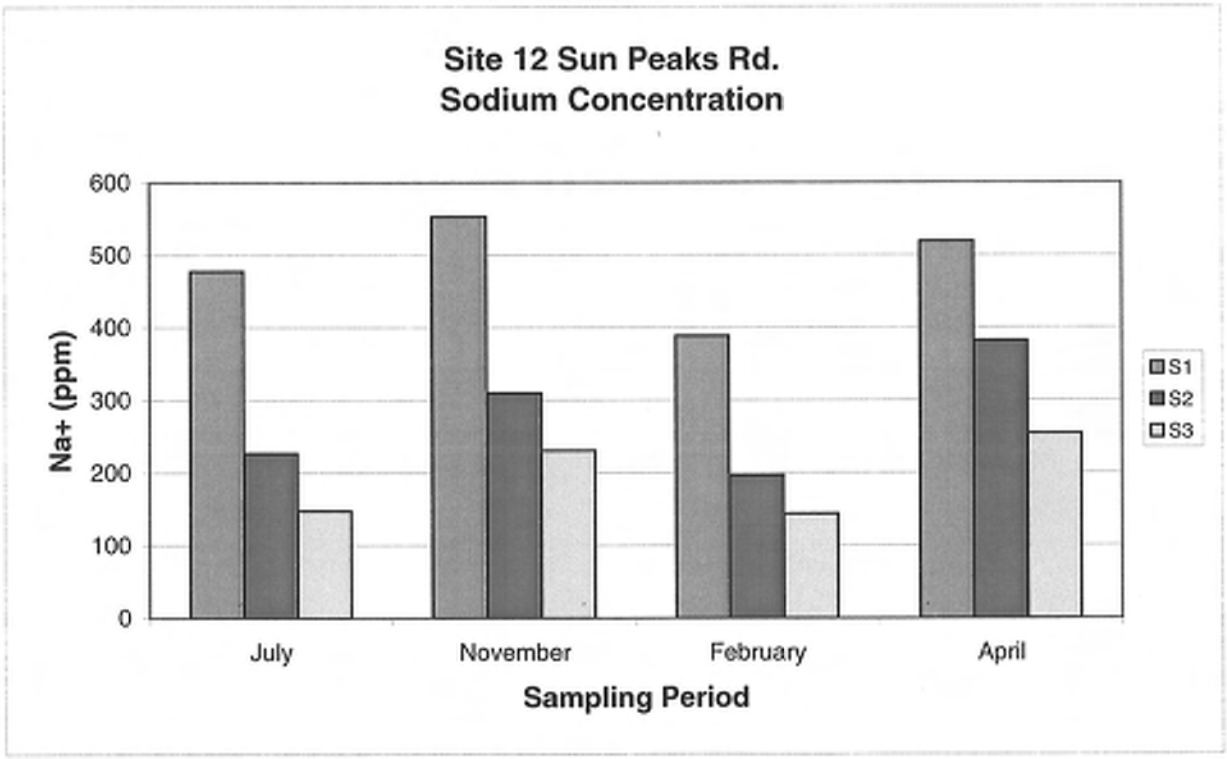

Site 11 Kamloops
Sodium Concentration
1600
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
S1
S2
S3
Site 11 Kamloops
Sample
July
November
February
April

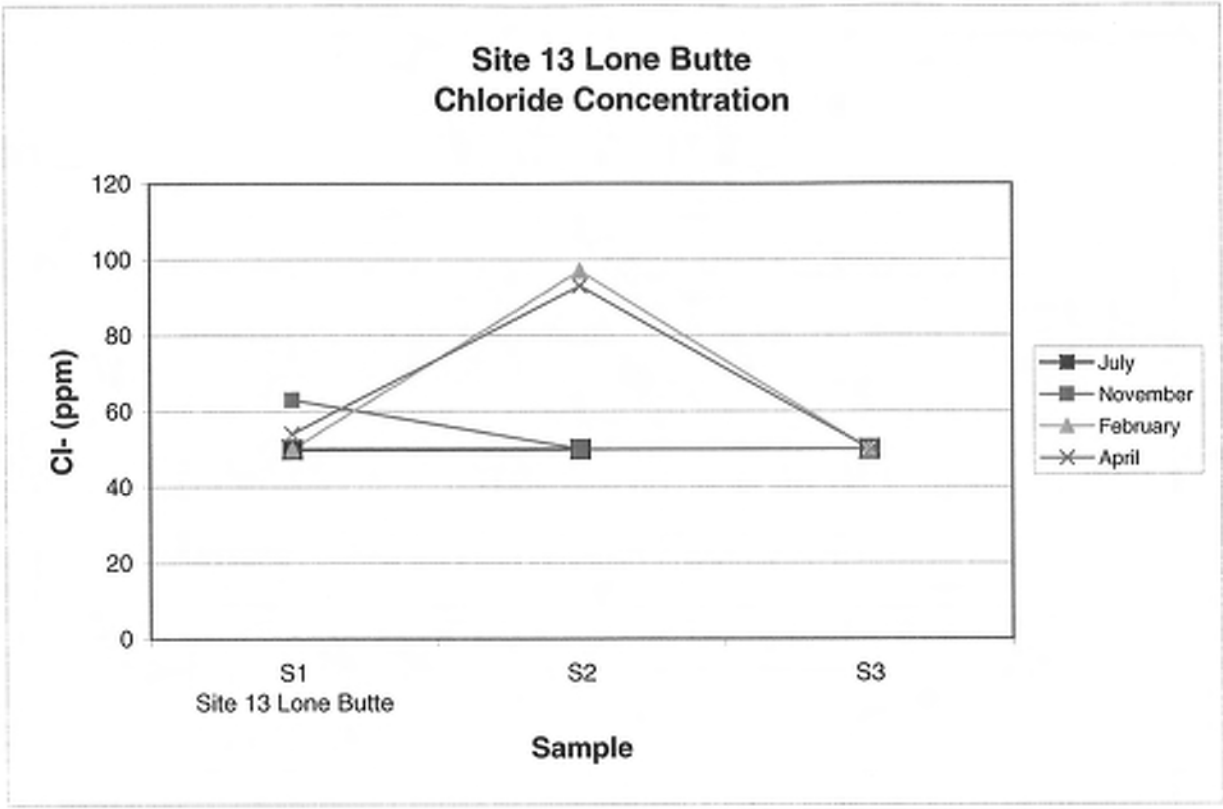

Site 11 Kamloops
Sodium Concentration
1600
1400
1200
1000
800
600
400
200
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

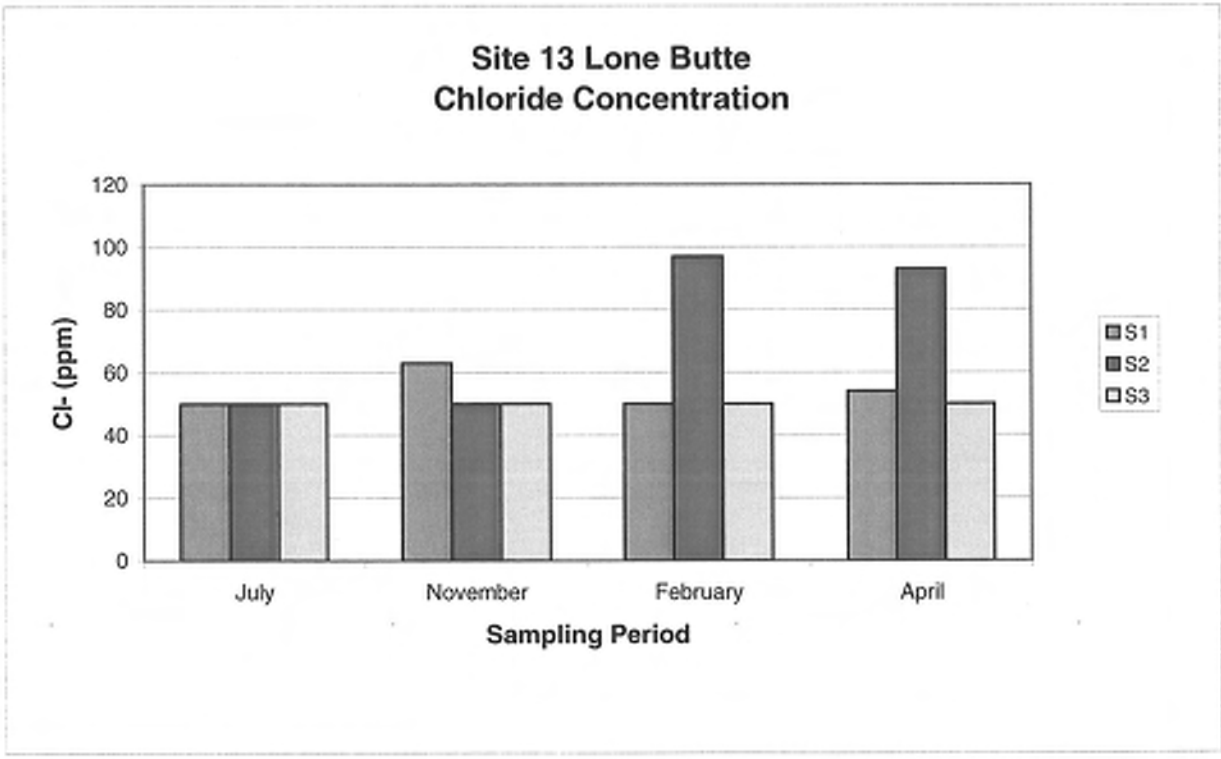

Site 12 Sun Peaks Rd.
Chloride Concentration
Cl- (ppm)
350
300
250
200
150
100
50
0
S1
S2
S3
Site 12 Sun Peaks Rd.
Sample
July
November
February
April

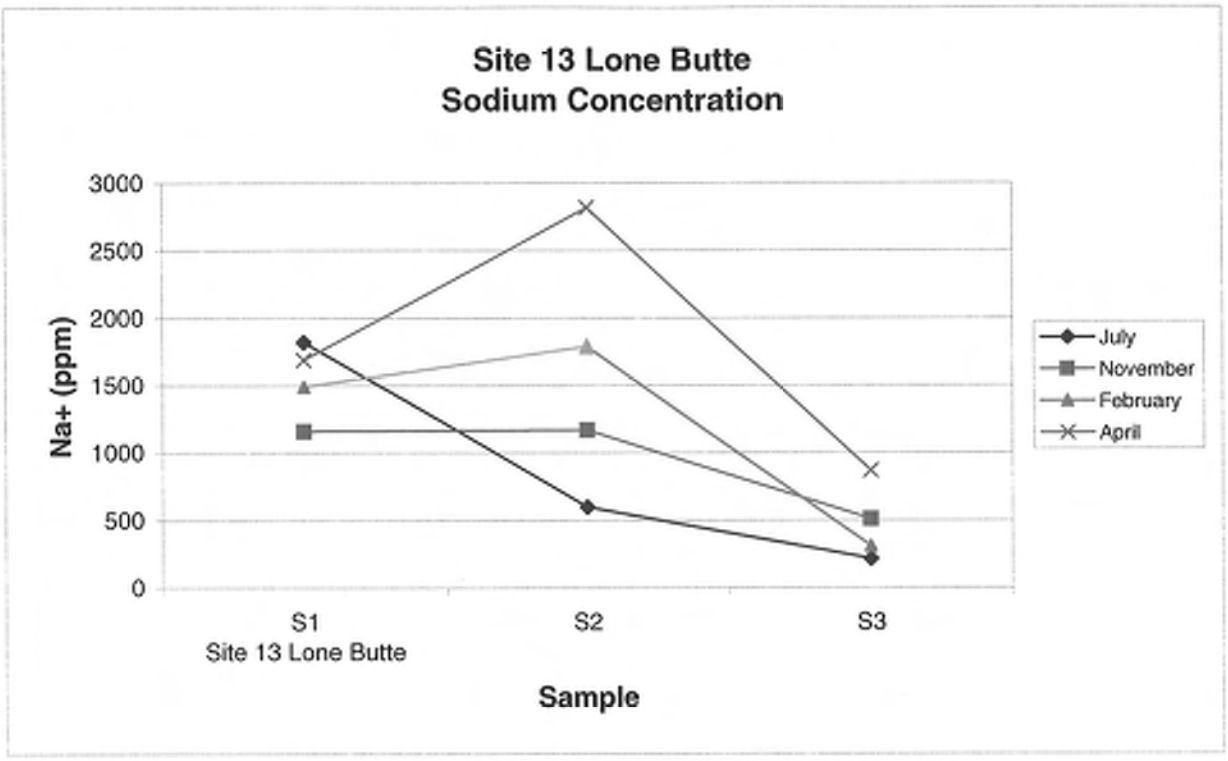

Site 12 Sun Peaks Rd.
Chloride Concentration
Cl- (ppm)
350
300
250
200
150
100
50
0
July
November
February
April
Sampling Period
S1
S2
S3

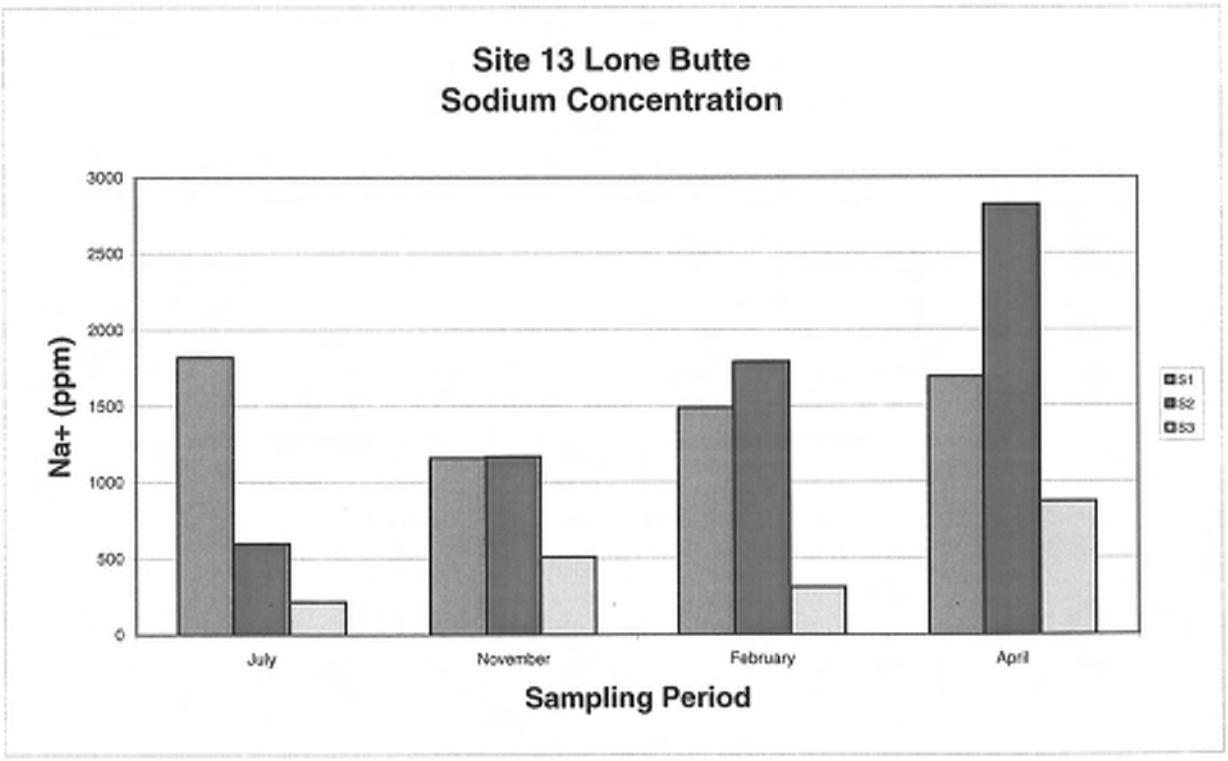

Site 12 Sun Peaks Rd.
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
S1
S2
S3
Site 12 Sun Peaks Rd.
Sample
July
November
February
April

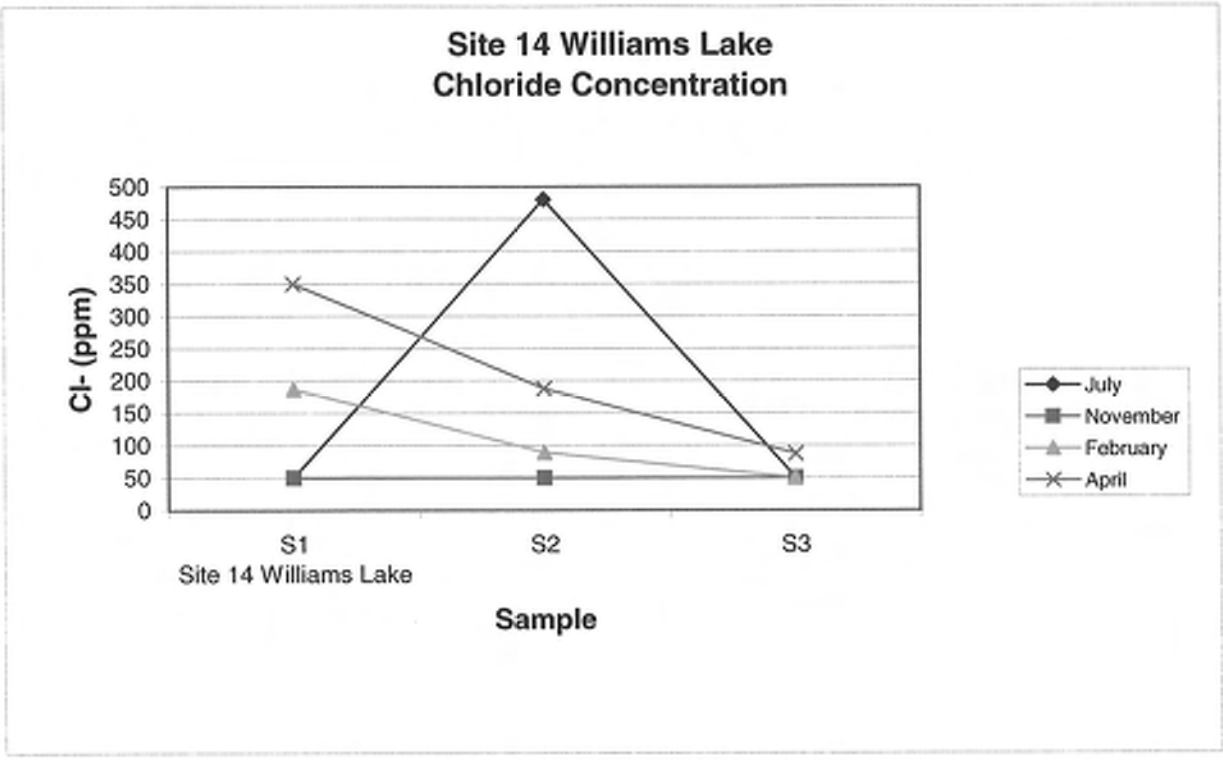

Site 12 Sun Peaks Rd.
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

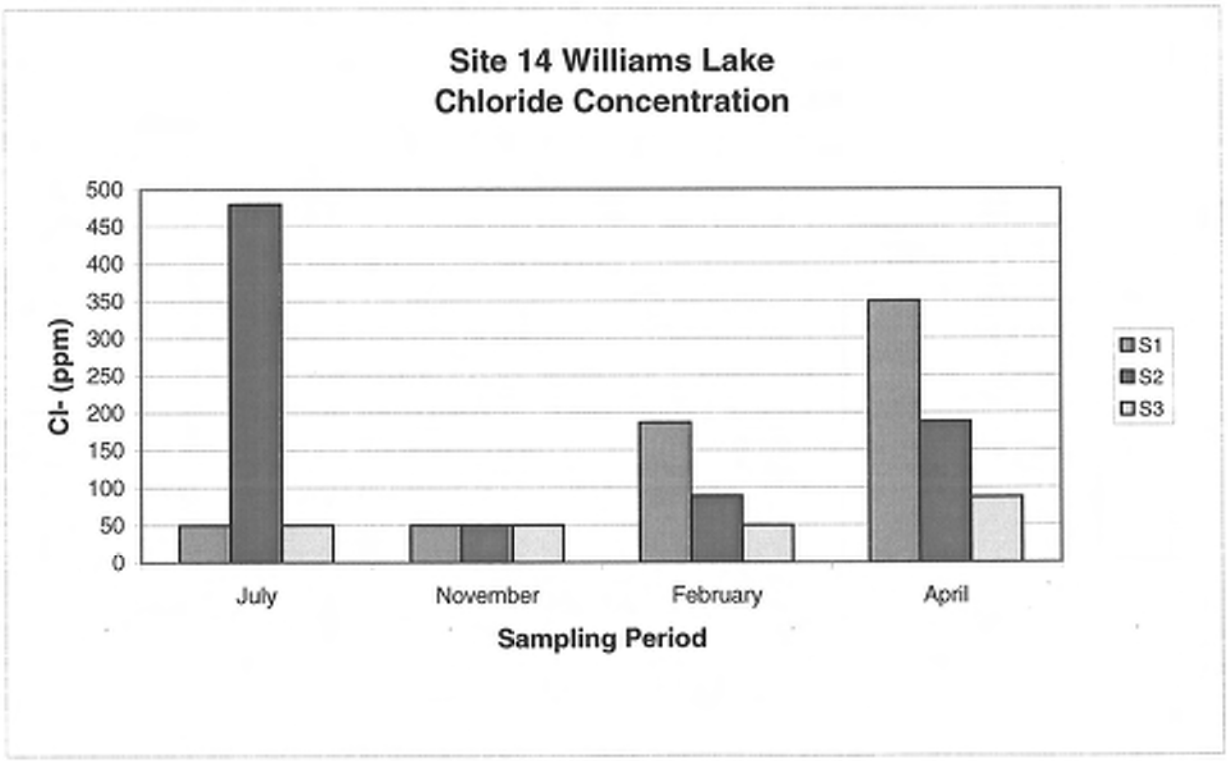

Site 13 Lone Butte
Chloride Concentration
120
100
80
60
40
20
0
Cl- (ppm)
S1
Site 13 Lone Butte
S2
S3
Sample
July
November
February
April

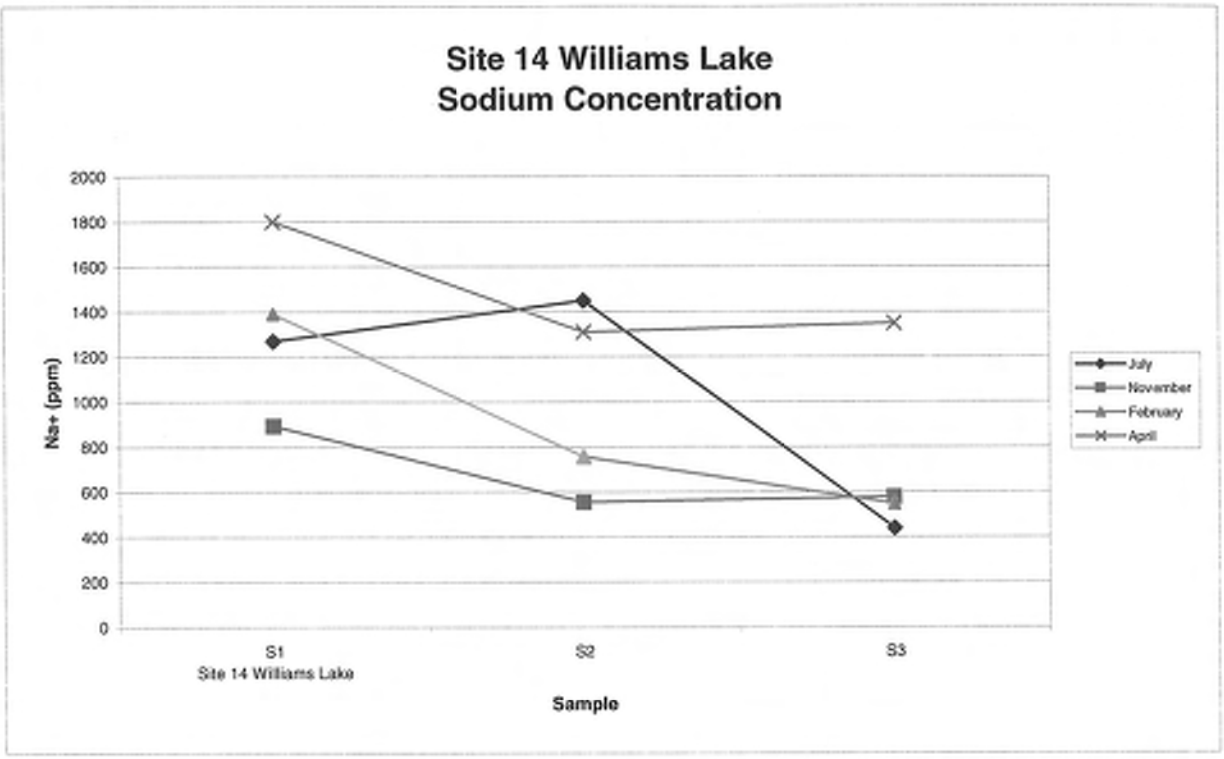

Site 13 Lone Butte
Chloride Concentration
120
100
80
60
40
20
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

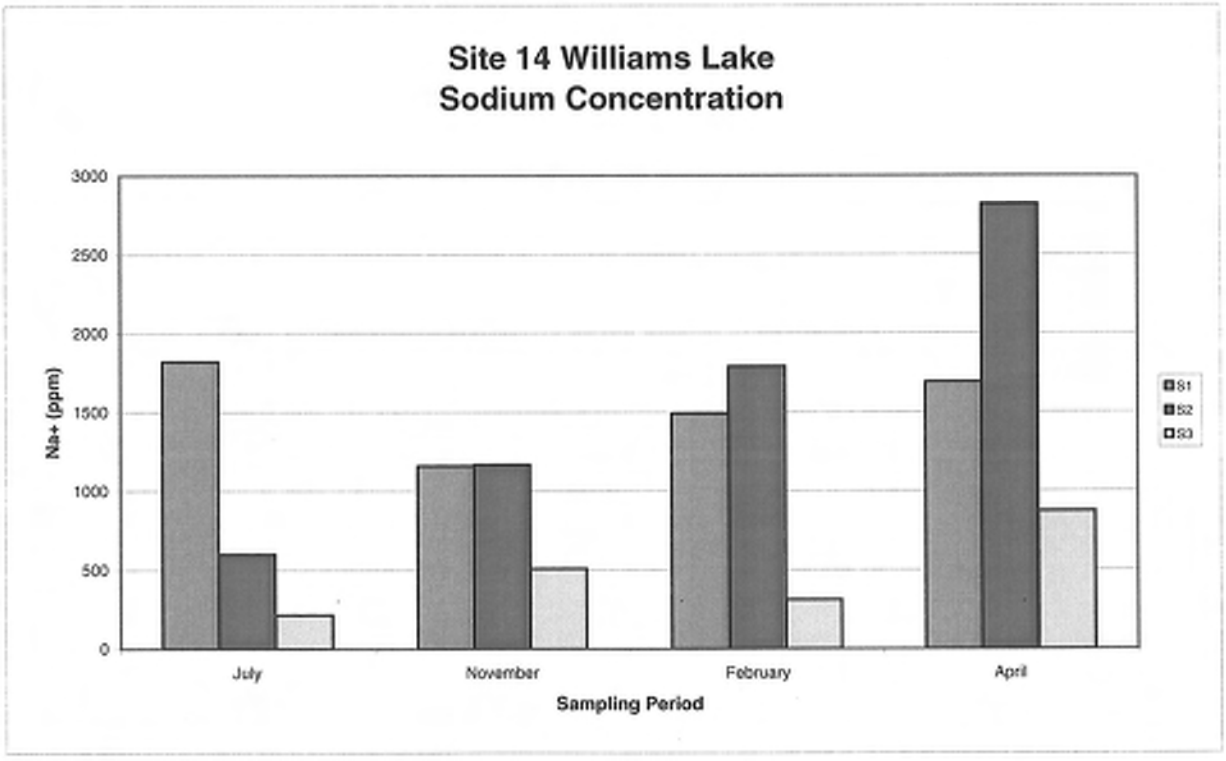

Site 13 Lone Butte
Sodium Concentration
3000
2500
2000
1500
1000
500
0
Na+ (ppm)
S1
Site 13 Lone Butte
S2
S3
Sample
July
November
February
April

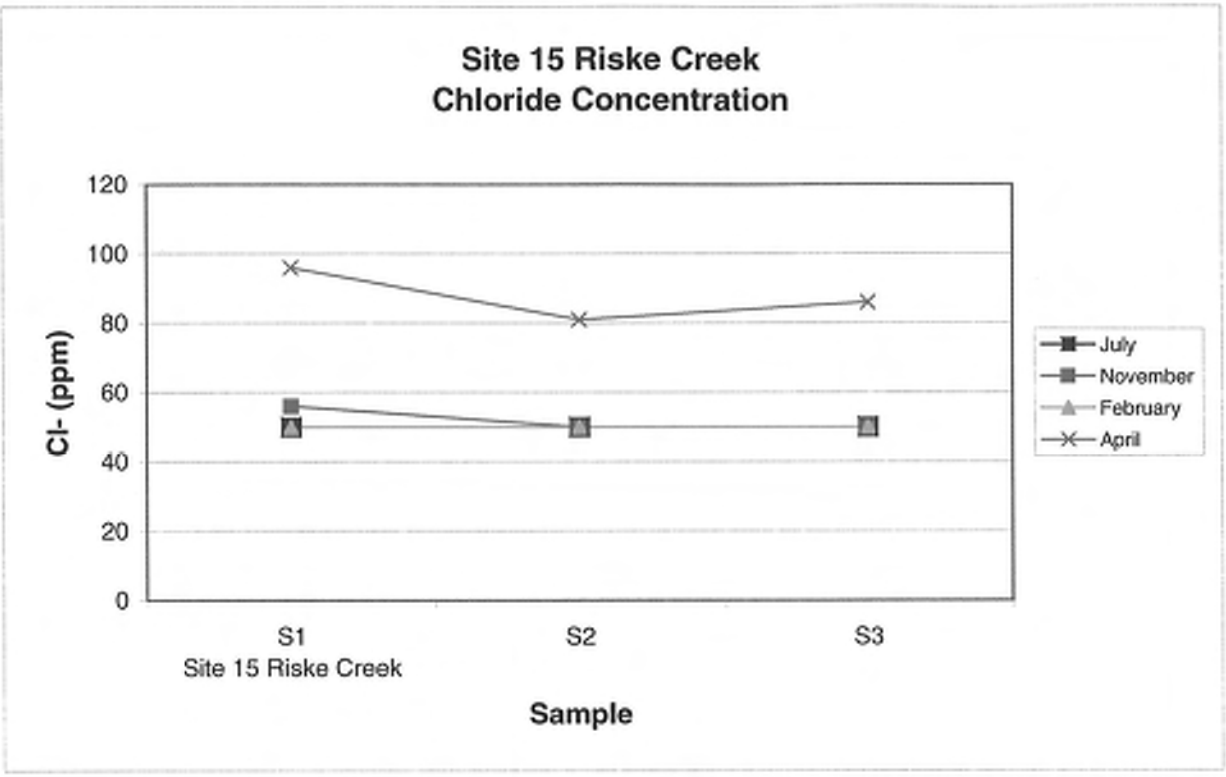

Site 13 Lone Butte
Sodium Concentration
3000
2500
2000
1500
1000
500
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

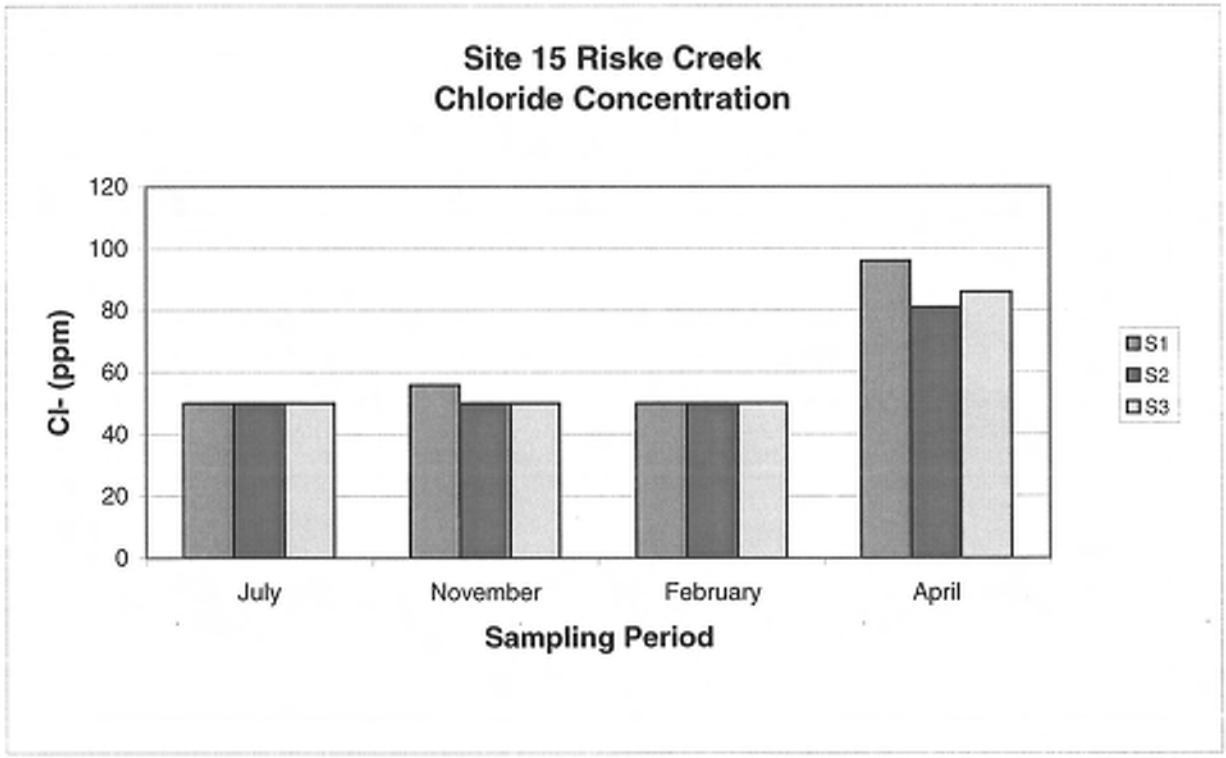

Site 14 Williams Lake
Chloride Concentration
Cl- (ppm)
500
450
400
350
300
250
200
150
100
50
0
S1
S2
S3
Site 14 Williams Lake
Sample
July
November
February
April

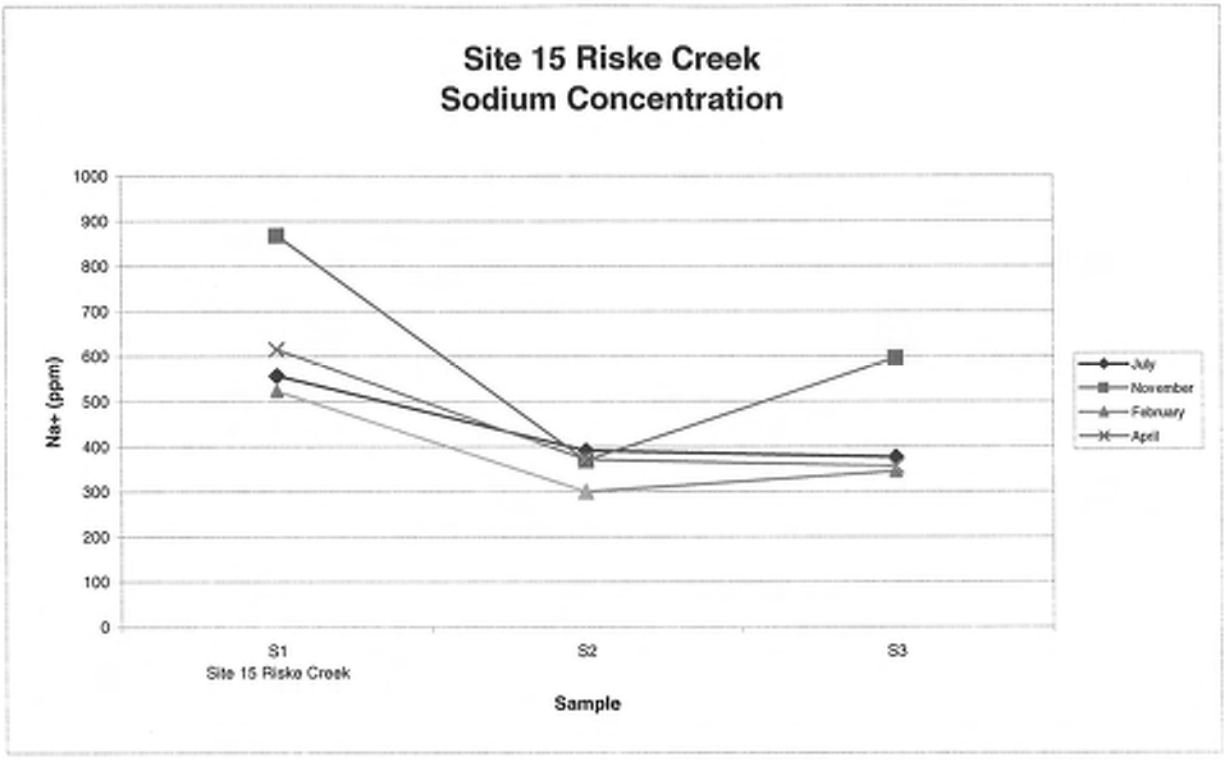

Site 14 Williams Lake
Chloride Concentration
Cl- (ppm)
500
450
400
350
300
250
200
150
100
50
0
July
November
February
April
Sampling Period
S1
S2
S3

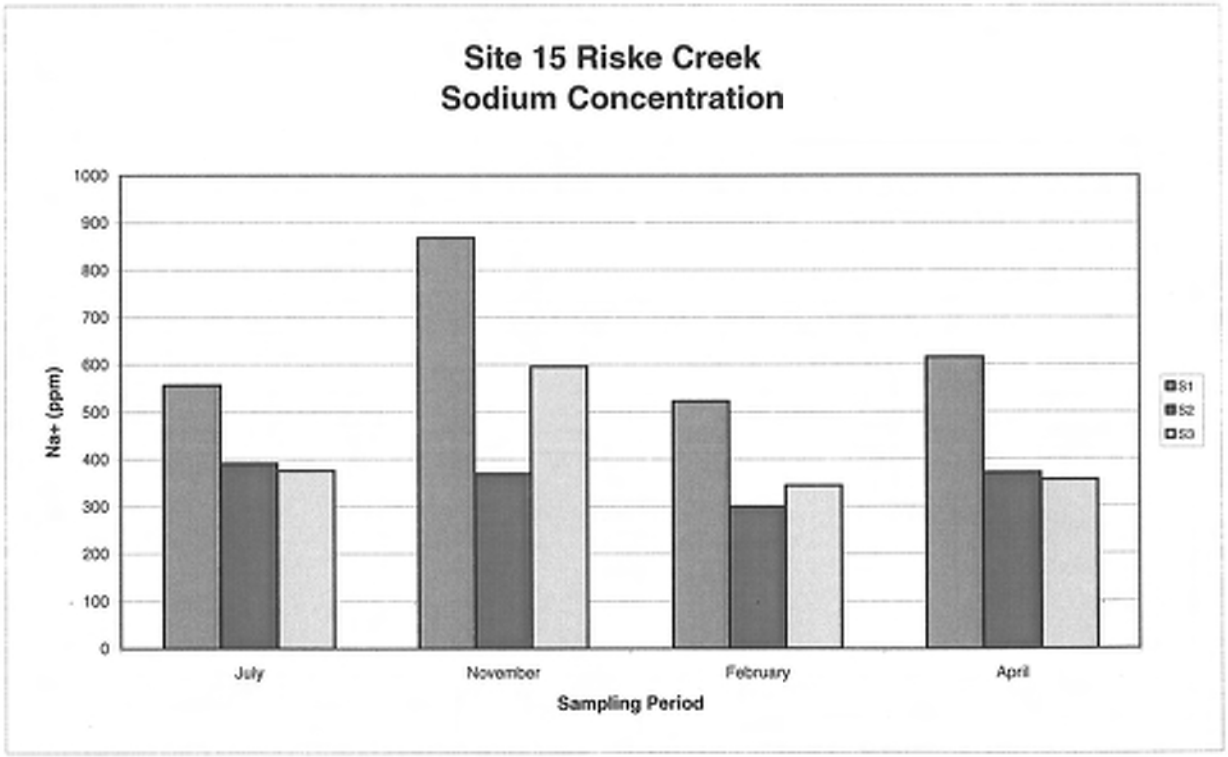

Site 14 Williams Lake
Sodium Concentration
Na+ (ppm)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
S1
S2
S3
Site 14 Williams Lake
Sample
July
November
February
April

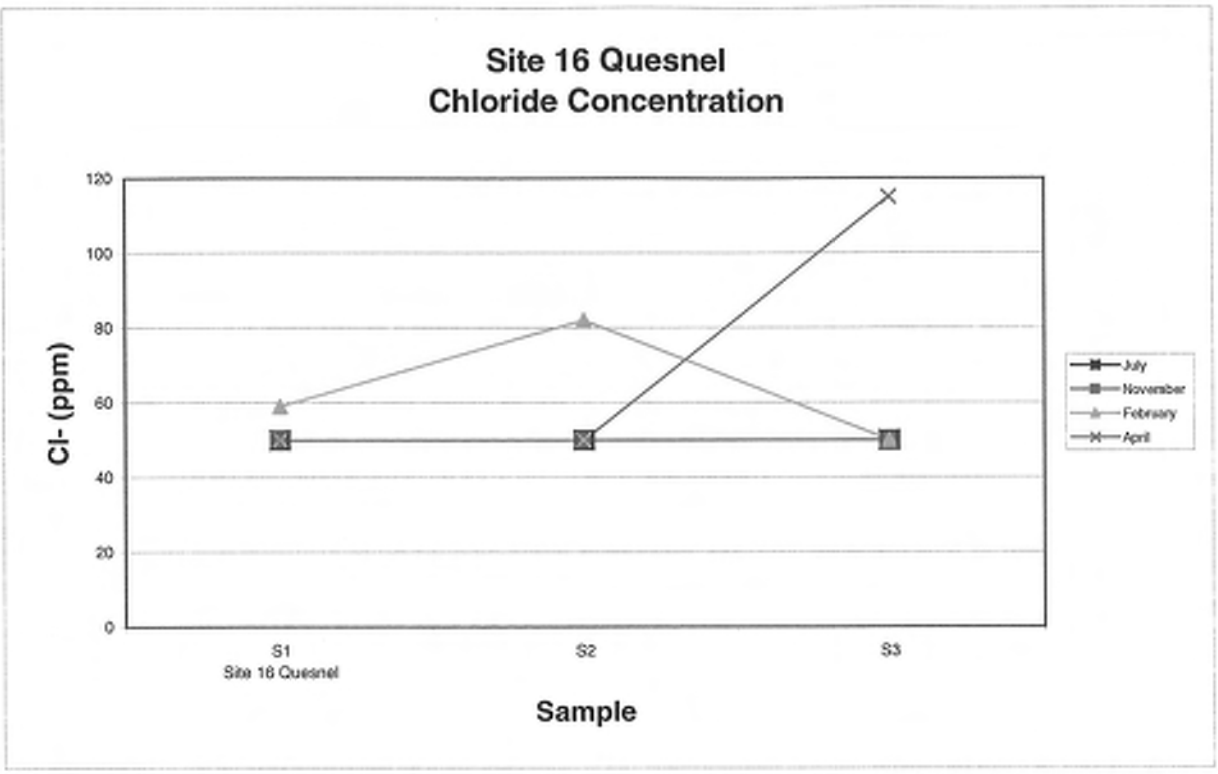

Site 14 Williams Lake
Sodium Concentration
Na+ (ppm)
3000
2500
2000
1500
1000
500
0
July
November
February
April
Sampling Period
S1
S2
S3

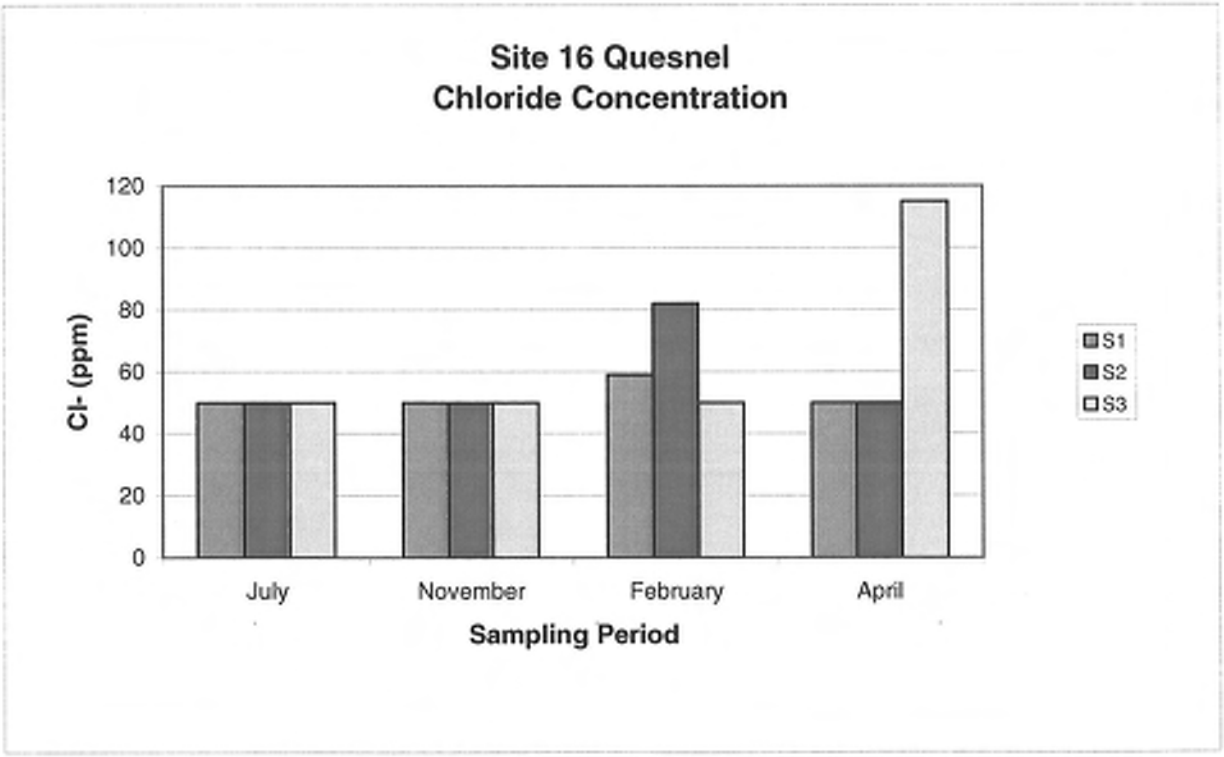

Site 15 Riske Creek
Chloride Concentration
120
100
80
60
40
20
0
Cl- (ppm)
S1
S2
S3
Site 15 Riske Creek
Sample
July
November
February
April

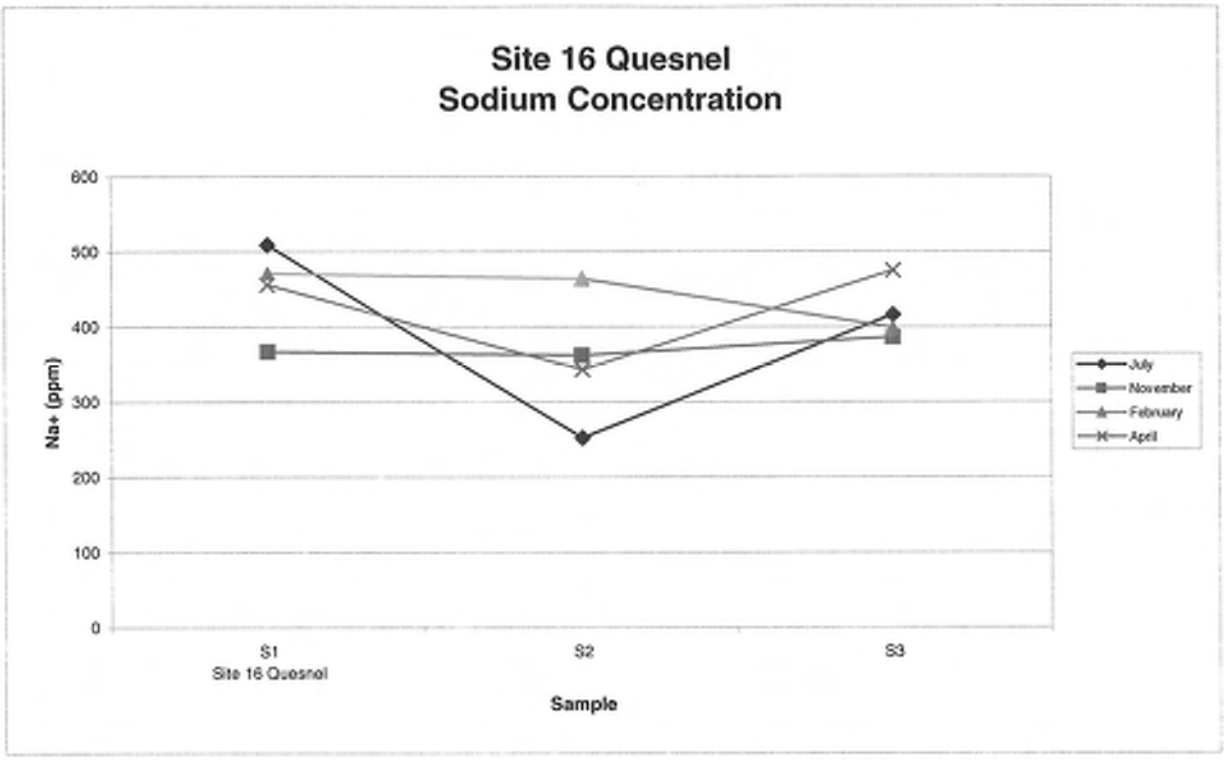

Site 15 Riske Creek
Chloride Concentration
120
100
80
60
40
20
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

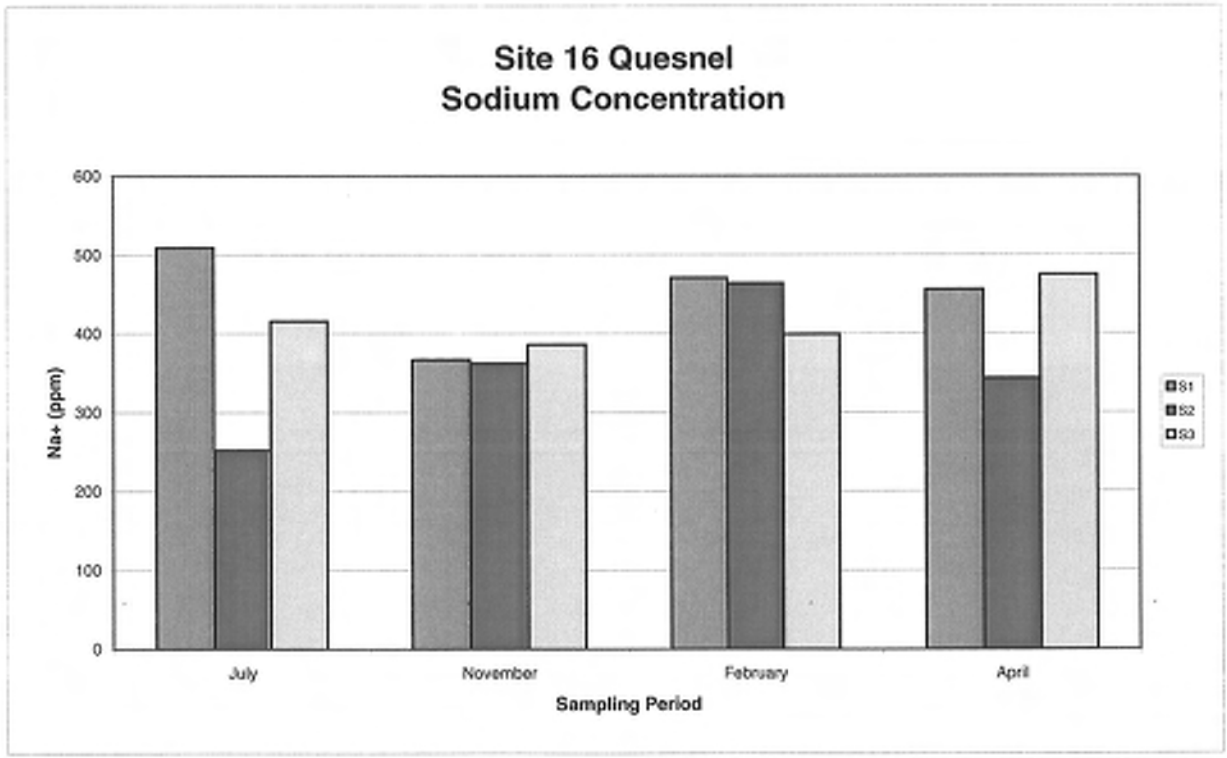

Site 15 Riske Creek
Sodium Concentration
Na+ (ppm)
1000
900
800
700
600
500
400
300
200
100
0
S1
S2
S3
Site 15 Riske Creek
Sample
July
November
February
April

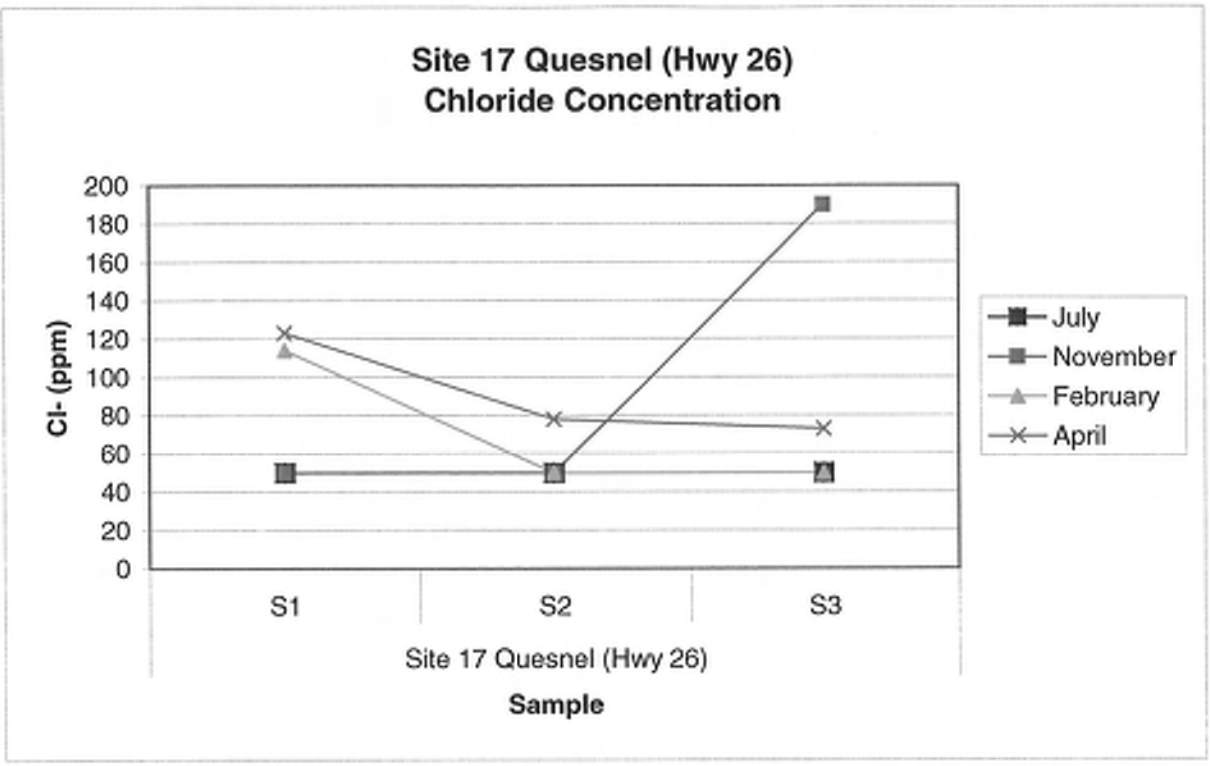

Site 15 Riske Creek
Sodium Concentration
Na+ (ppm)
1000
900
800
700
600
500
400
300
200
100
0
July
November
February
April
Sampling Period
S1
S2
S3

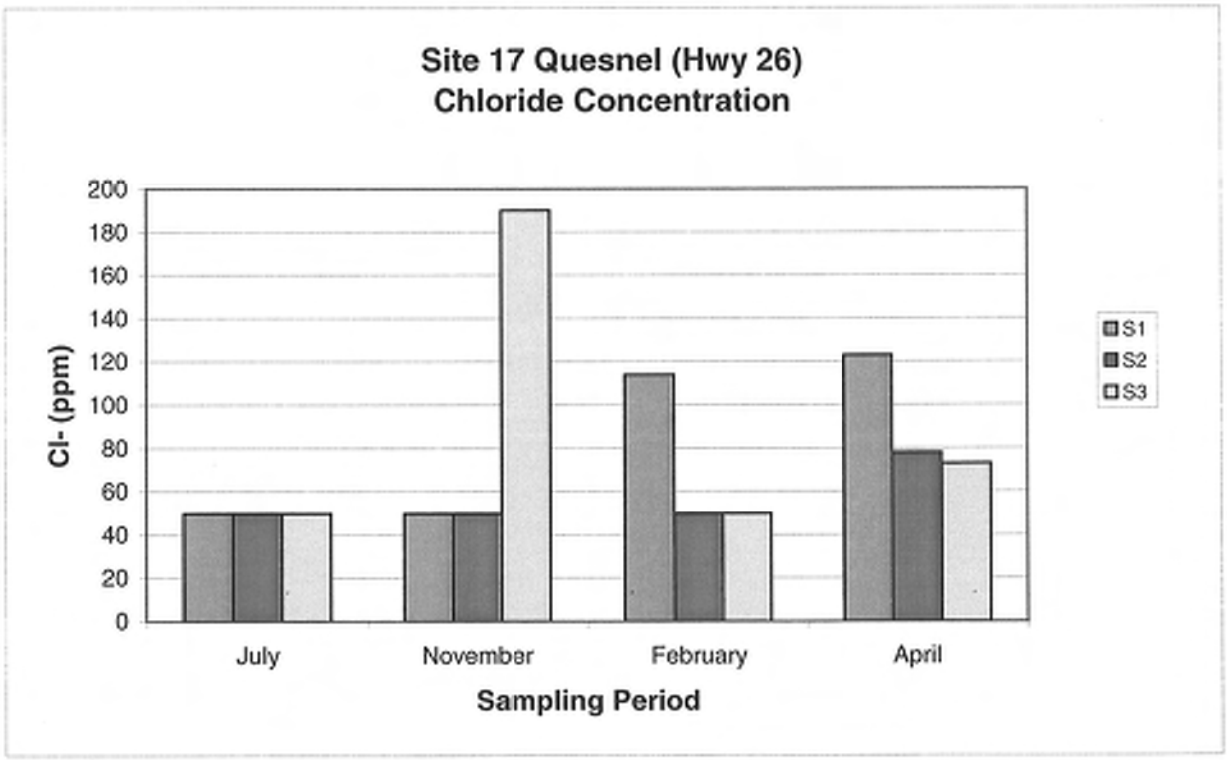

Site 16 Quesnel
Chloride Concentration
Cl- (ppm)
120
100
80
60
40
20
0
S1
Site 16 Quesnel
S2
S3
Sample
July
November
February
April

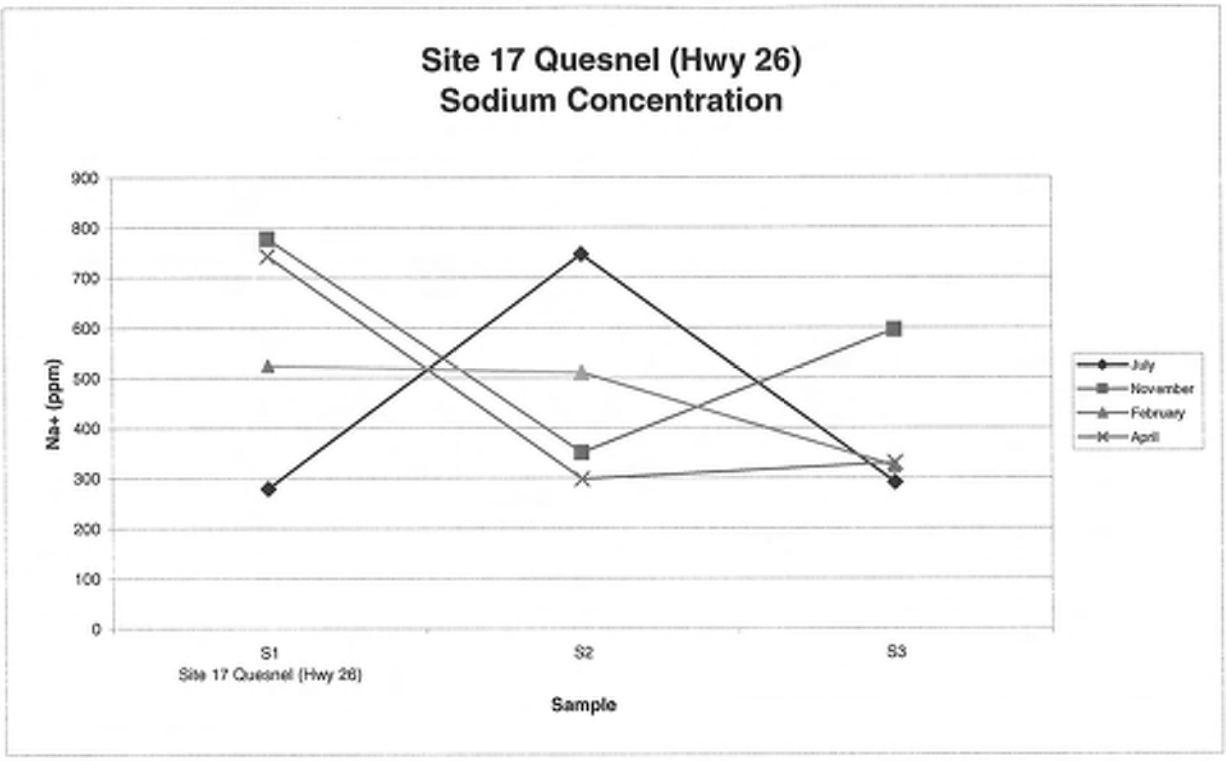

Site 16 Quesnel
Chloride Concentration
Cl- (ppm)
120
100
80
60
40
20
0
July
November
February
April
Sampling Period
S1
S2
S3

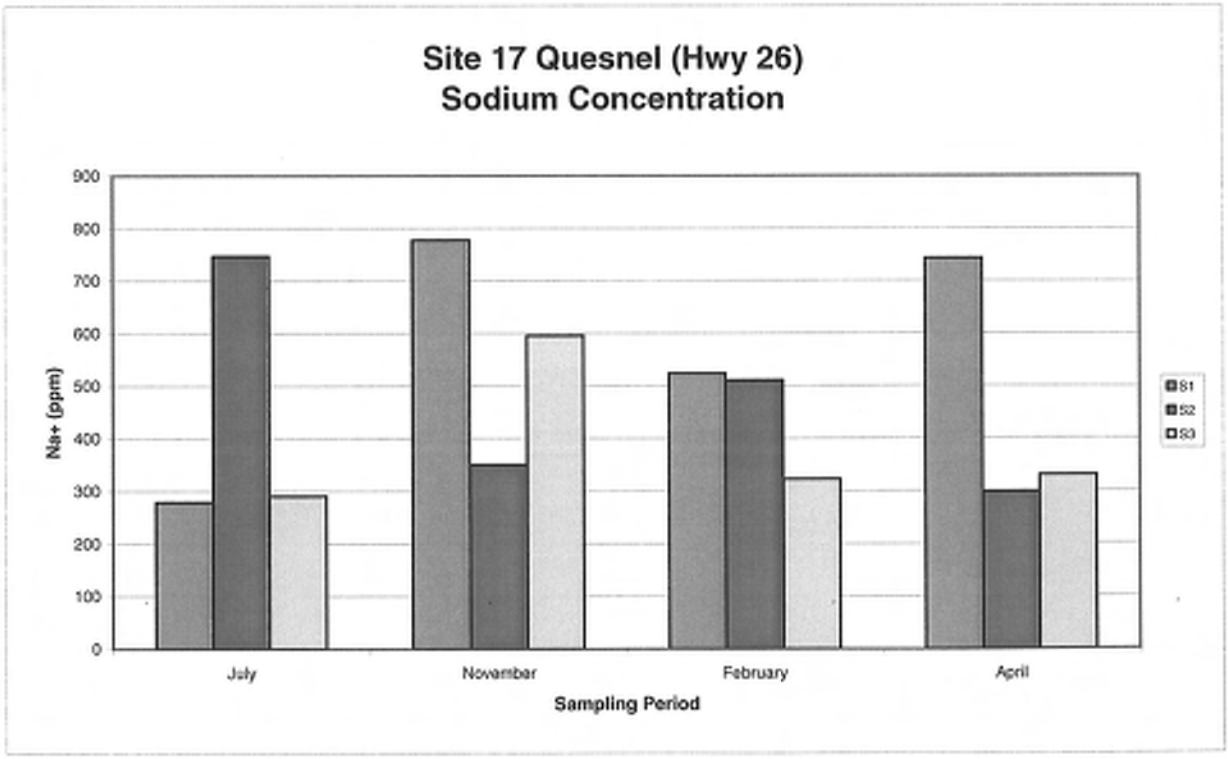

Site 16 Quesnel
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 16 Quesnel
S2
S3
Sample
July
November
February
April

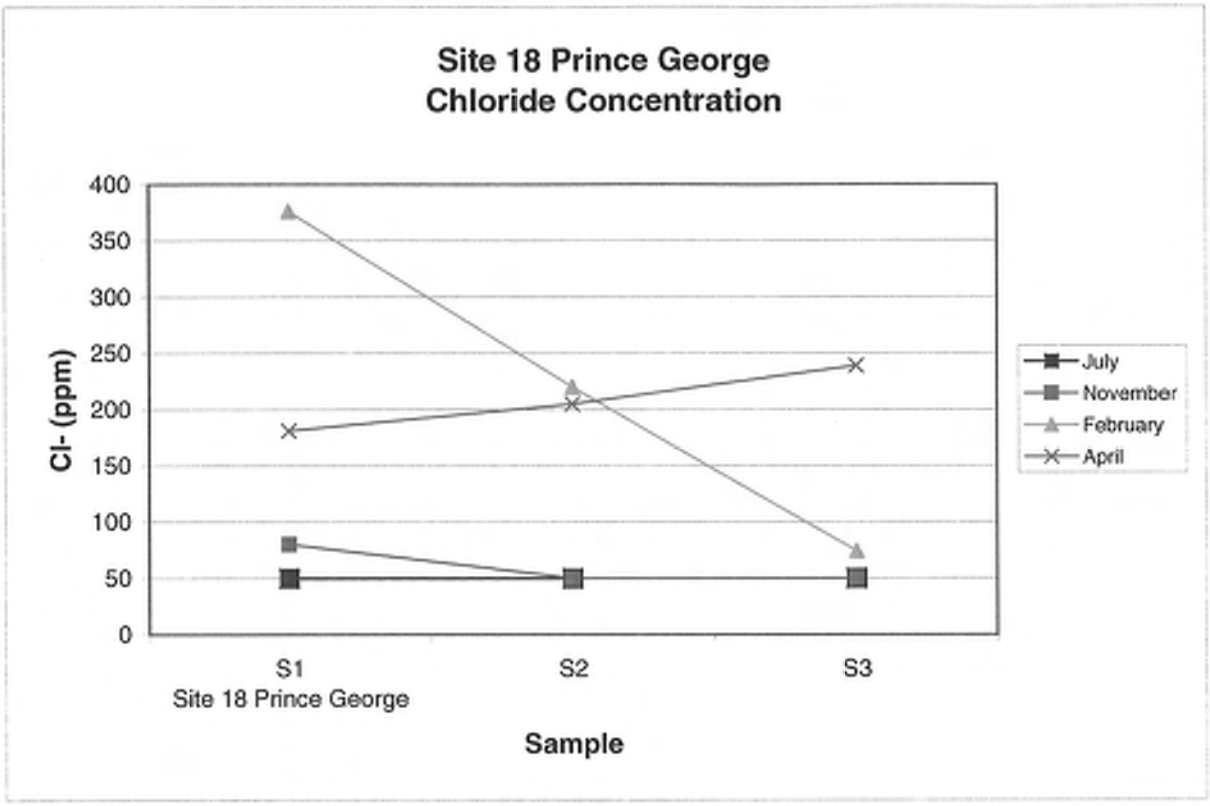

Site 16 Quesnel
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

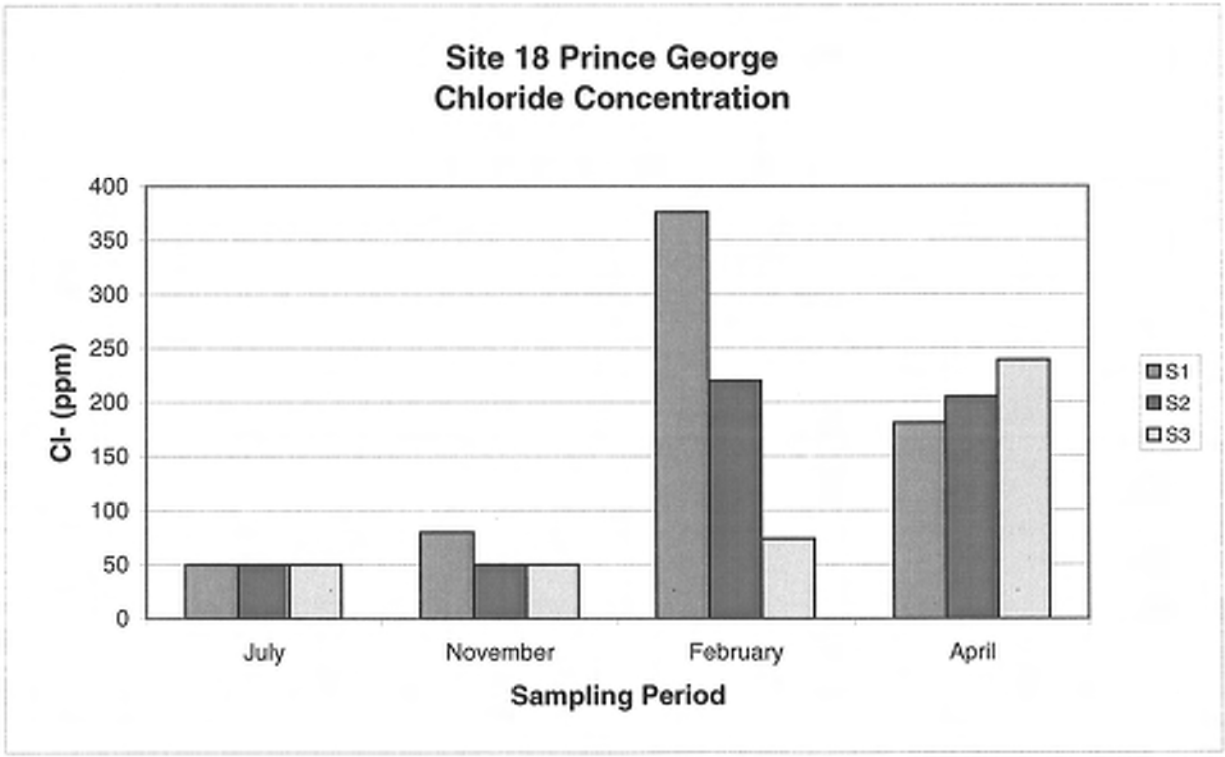

Site 17 Quesnel (Hwy 26)
Chloride Concentration
Cl- (ppm)
200
180
160
140
120
100
80
60
40
20
0
S1
S2
S3
Site 17 Quesnel (Hwy 26)
Sample
July
November
February
April

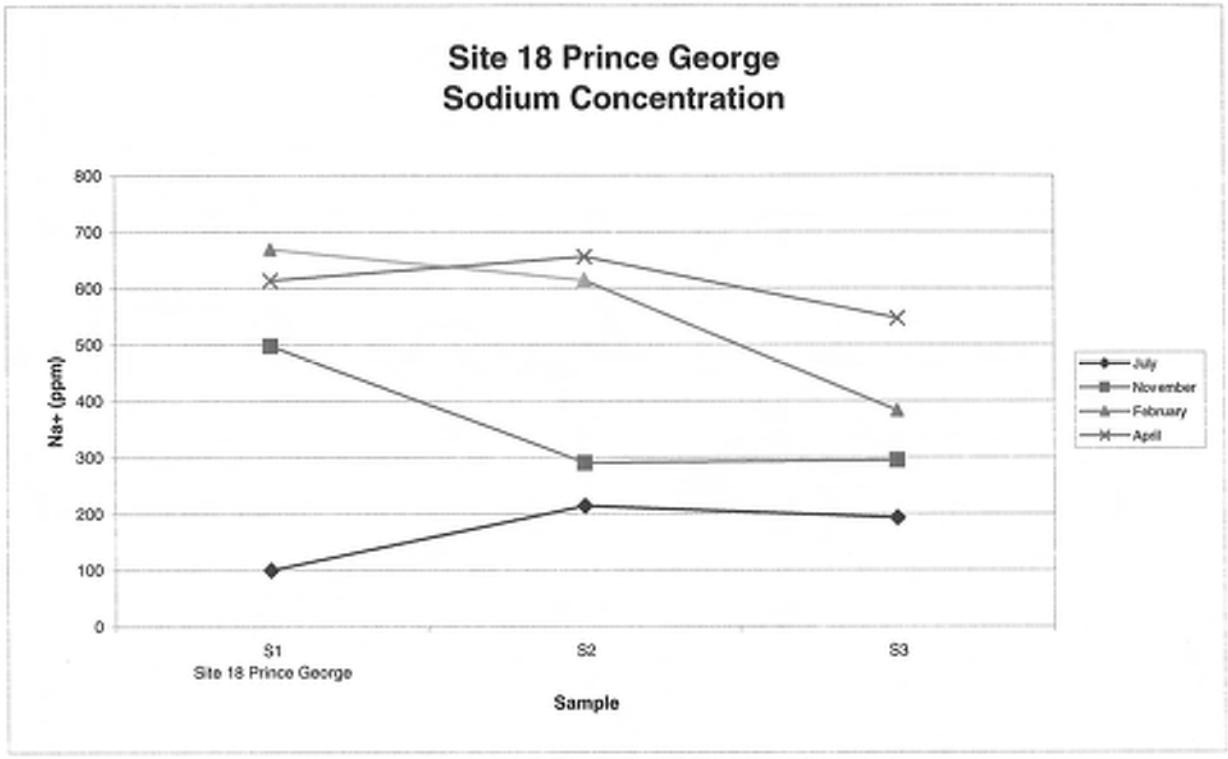

Site 17 Quesnel (Hwy 26)
Chloride Concentration
Cl- (ppm)
200
180
160
140
120
100
80
60
40
20
0
July
November
February
April
Sampling Period
S1
S2
S3

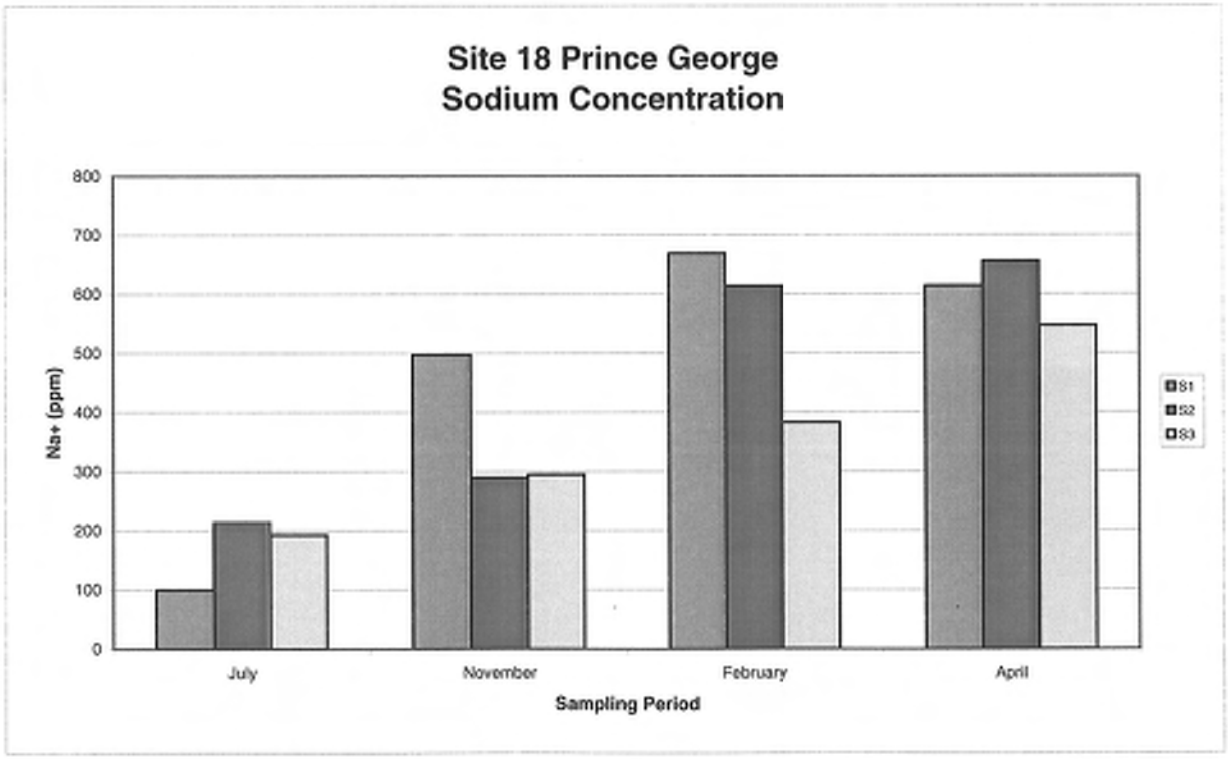

Site 17 Quesnel (Hwy 26)
Sodium Concentration
Na+ (ppm)
900
800
700
600
500
400
300
200
100
0
S1
S2
S3
Site 17 Quesnel (Hwy 26)
Sample
July
November
February
April

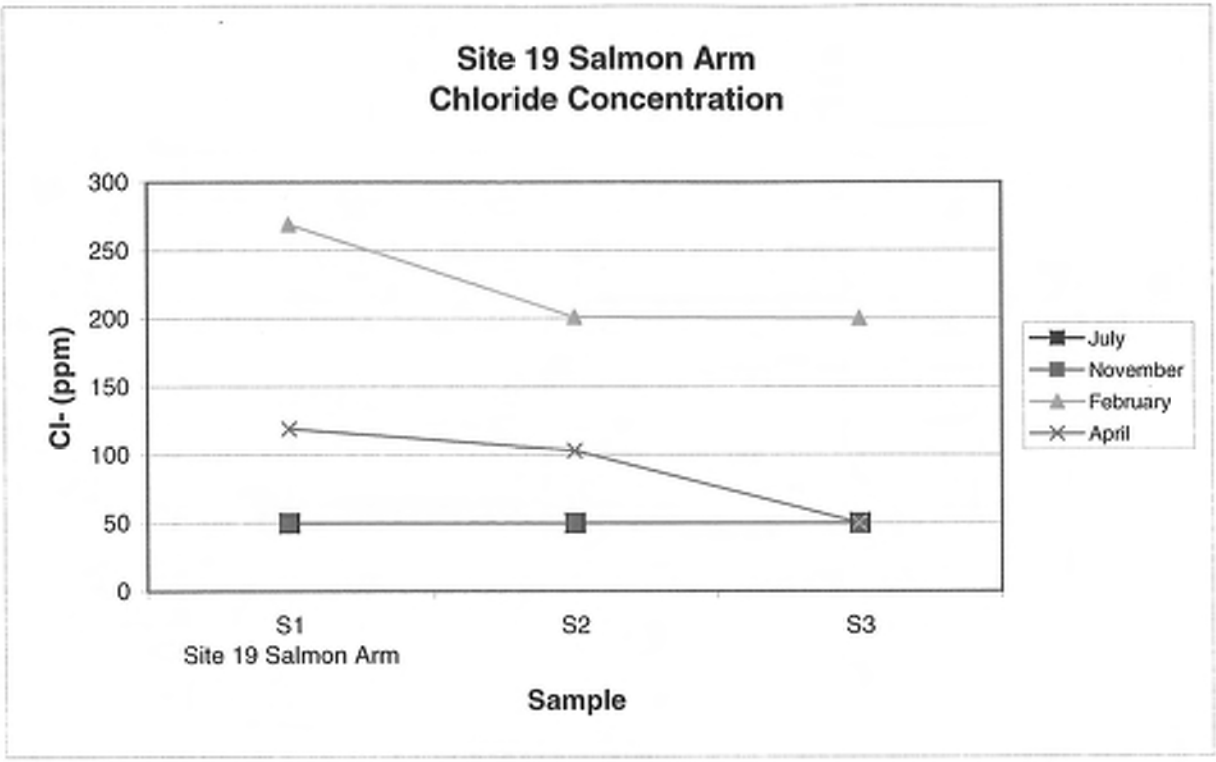

Site 17 Quesnel (Hwy 26)
Sodium Concentration
Na+ (ppm)
900
800
700
600
500
400
300
200
100
0
July
November
February
April
Sampling Period
S1
S2
S3

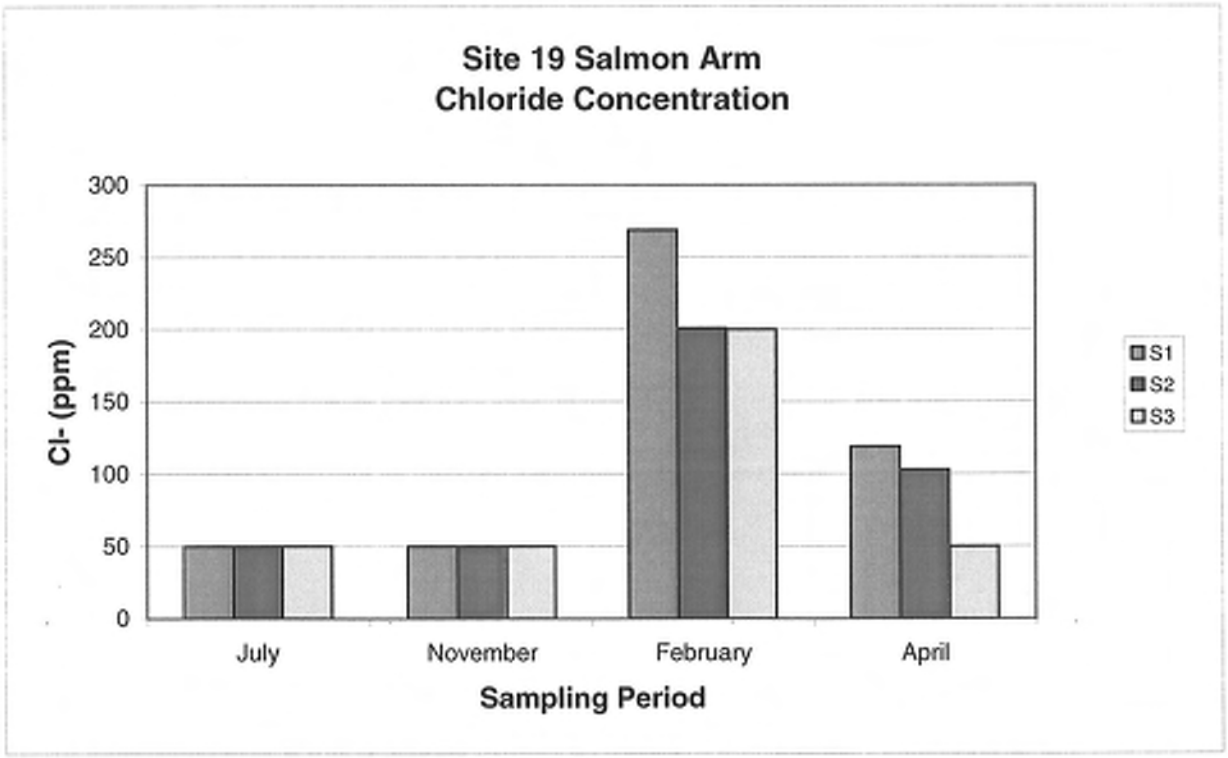

Site 18 Prince George
Chloride Concentration
Cl- (ppm)
400
350
300
250
200
150
100
50
0
S1
S2
S3
Site 18 Prince George
Sample
July
November
February
April

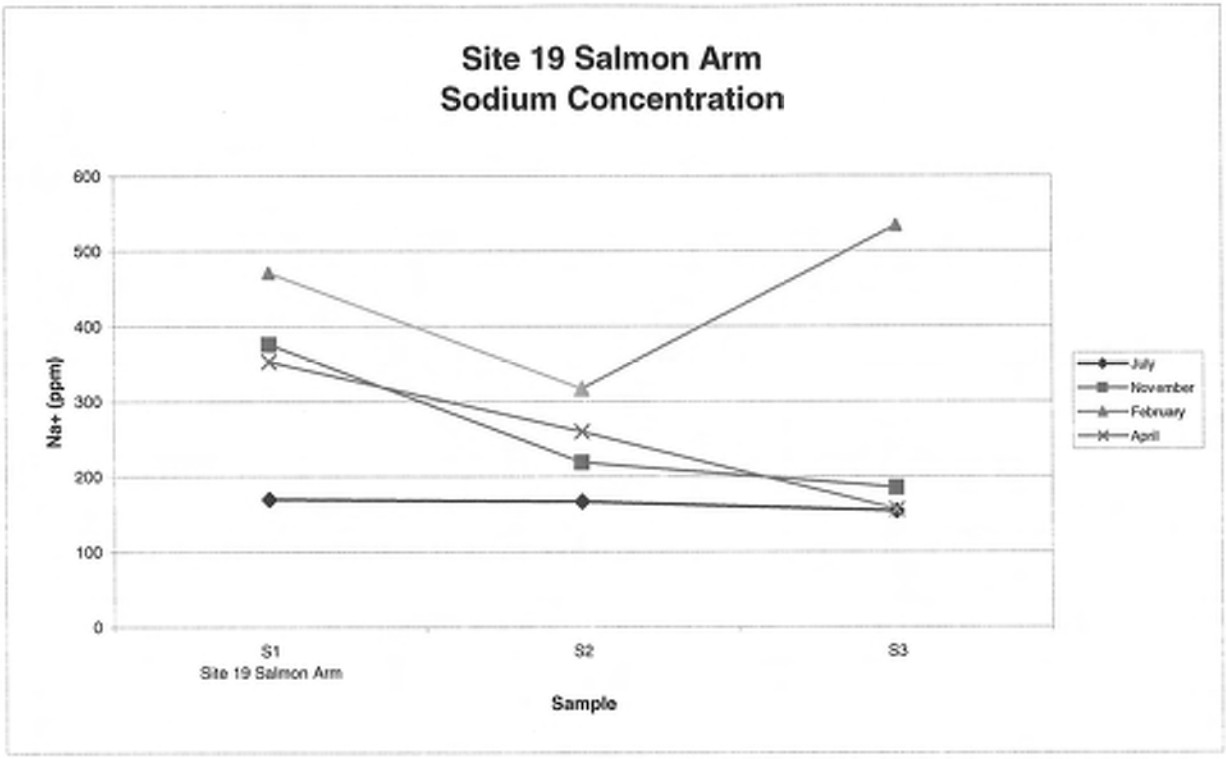

Site 18 Prince George
Chloride Concentration
Cl- (ppm)
400
350
300
250
200
150
100
50
0
July
November
February
April
Sampling Period
S1
S2
S3

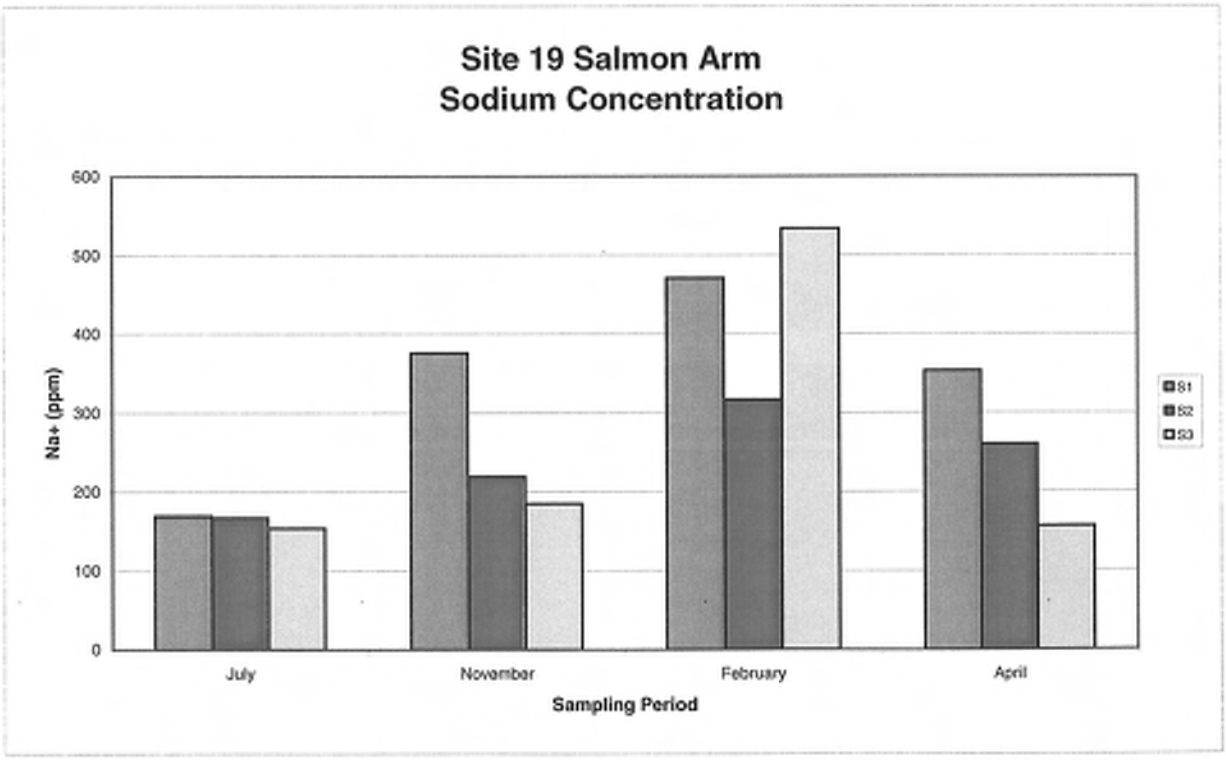

Site 18 Prince George
Sodium Concentration
800
700
600
500
400
300
200
100
0
Na+ (ppm)
S1
S2
S3
Site 18 Prince George
Sample
July
November
February
April

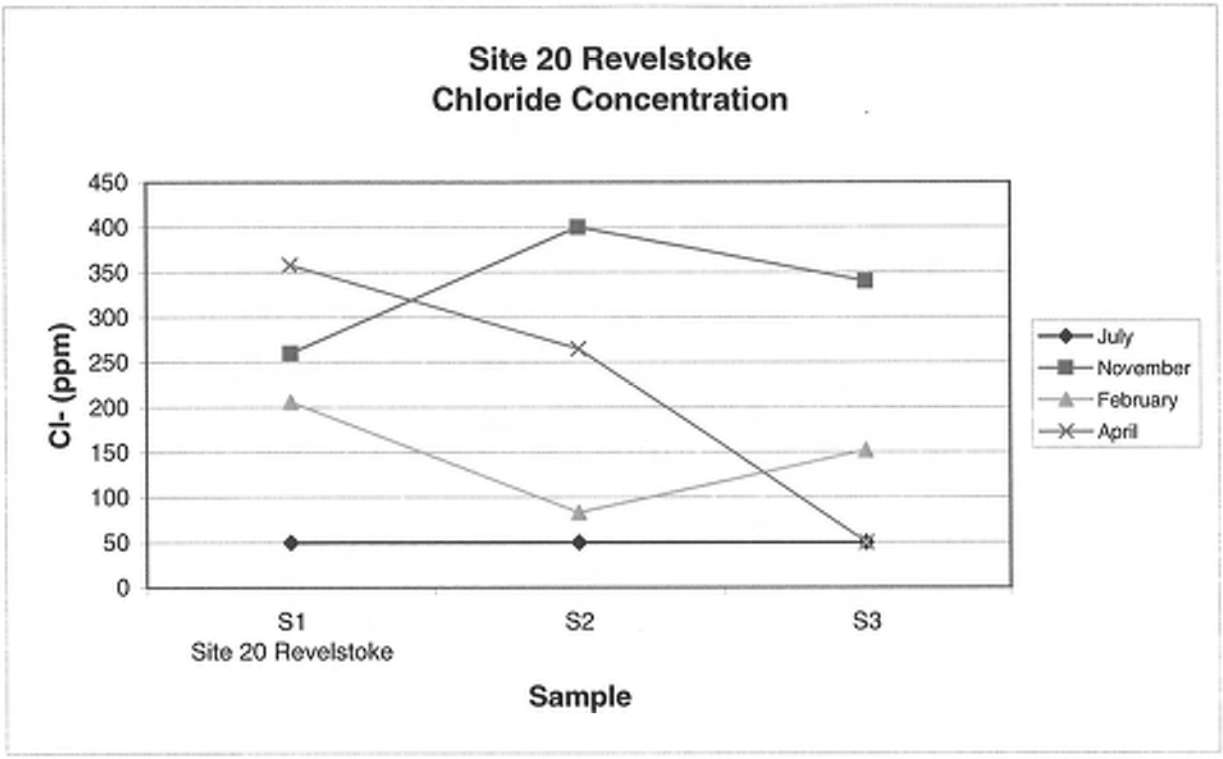

Site 18 Prince George
Sodium Concentration
800
700
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

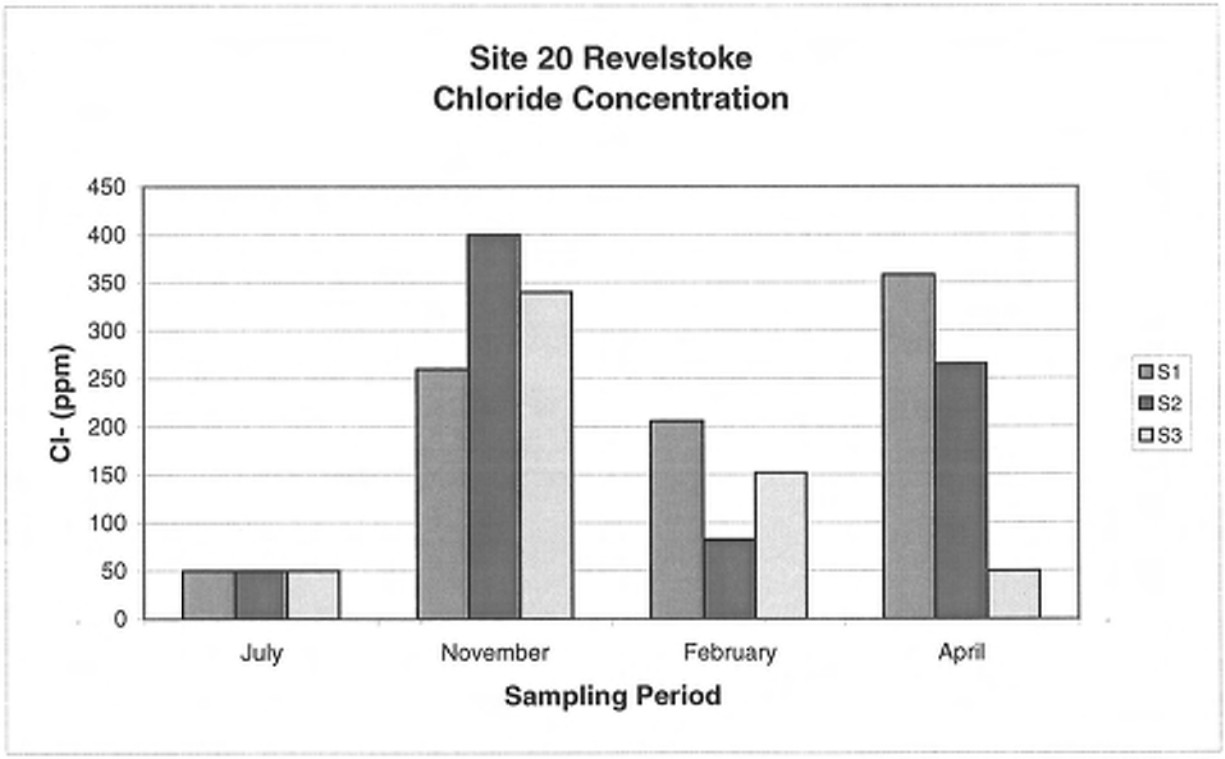

Site 19 Salmon Arm
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
S1
S2
S3
Site 19 Salmon Arm
Sample
July
November
February
April

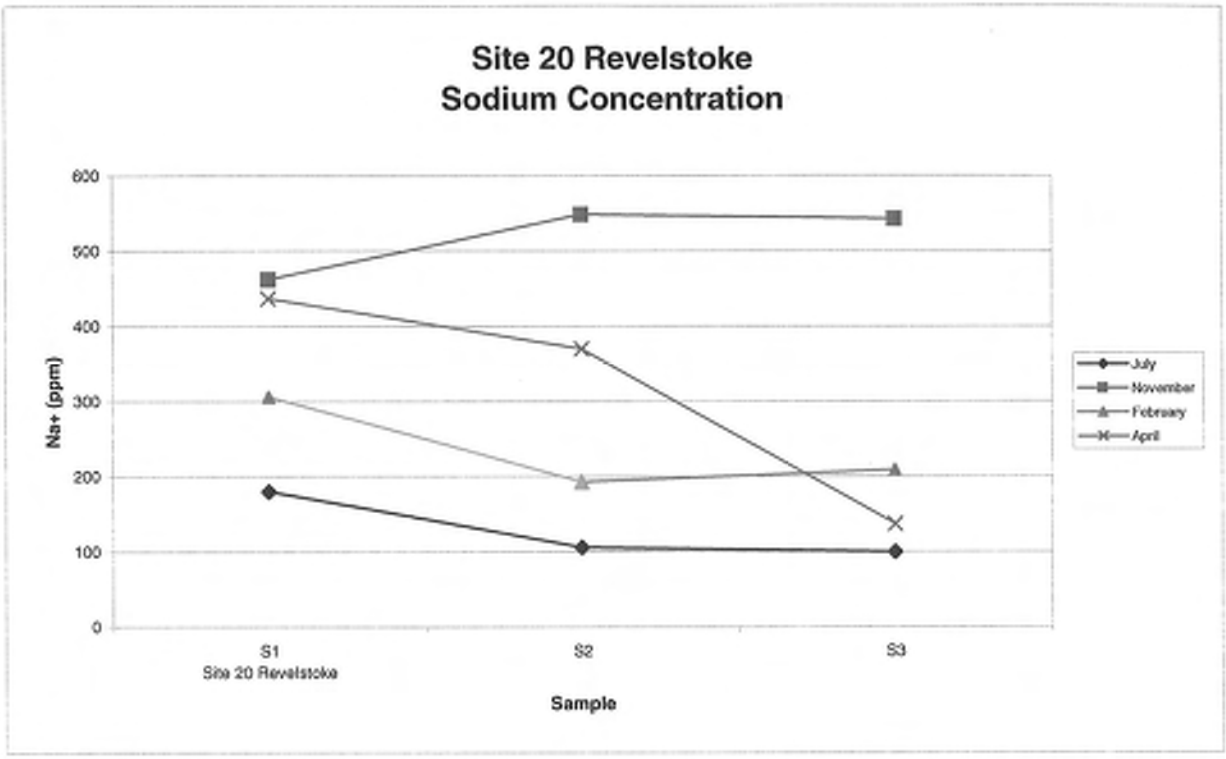

Site 19 Salmon Arm
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

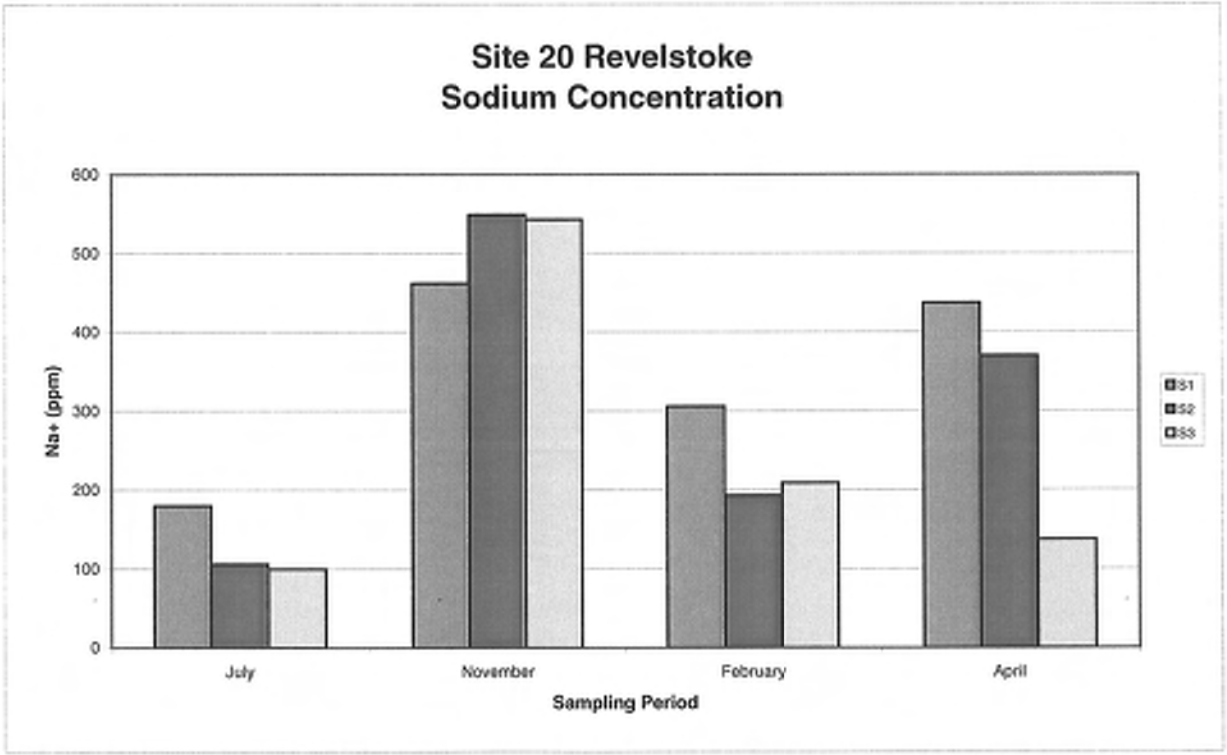

Site 19 Salmon Arm
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 19 Salmon Arm
S2
S3
Sample
July
November
February
April

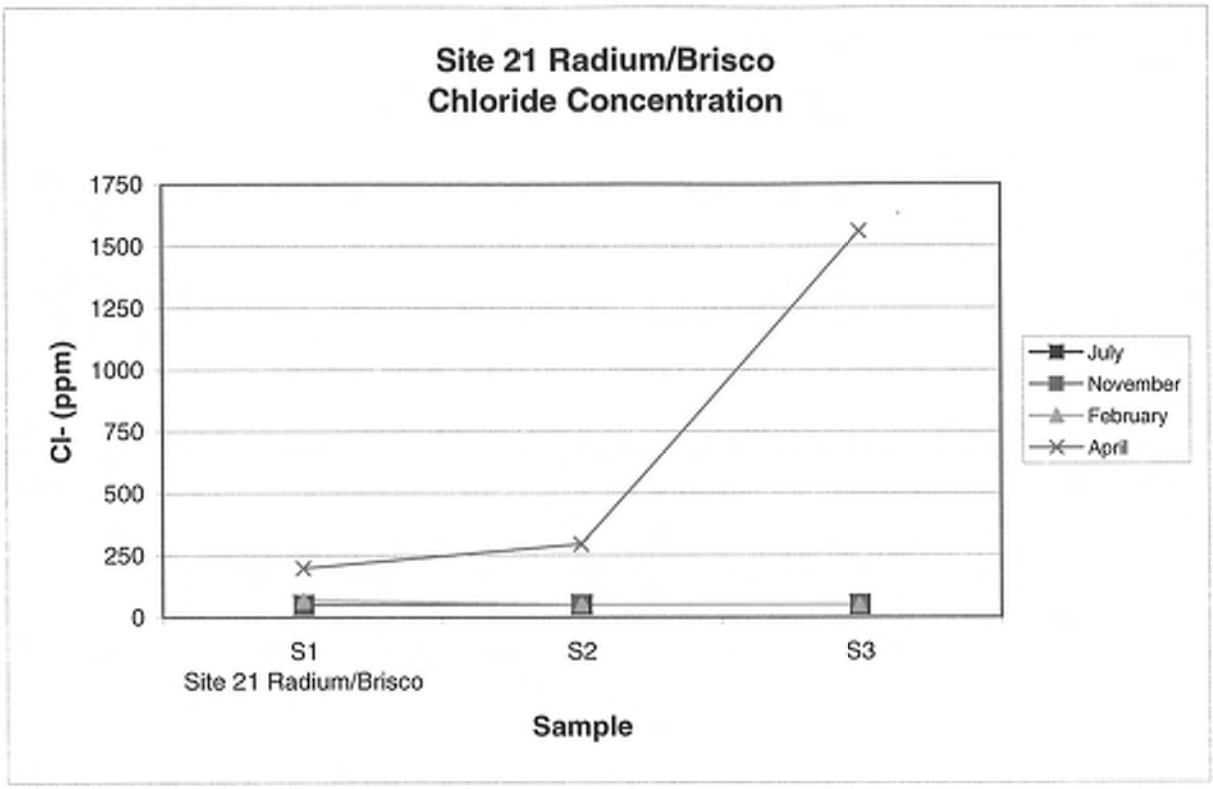

Site 19 Salmon Arm
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

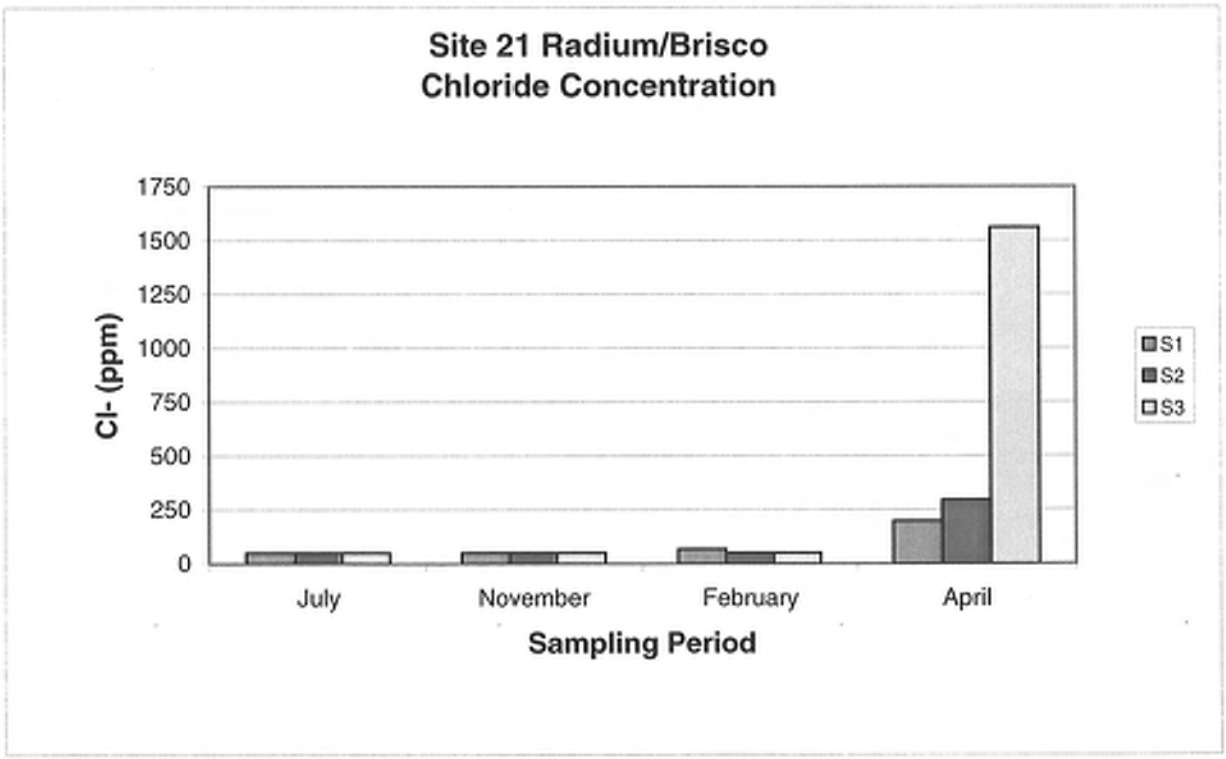

Site 20 Revelstoke
Chloride Concentration
Cl- (ppm)
450
400
350
300
250
200
150
100
50
0
S1
S2
S3
Site 20 Revelstoke
Sample
July
November
February
April

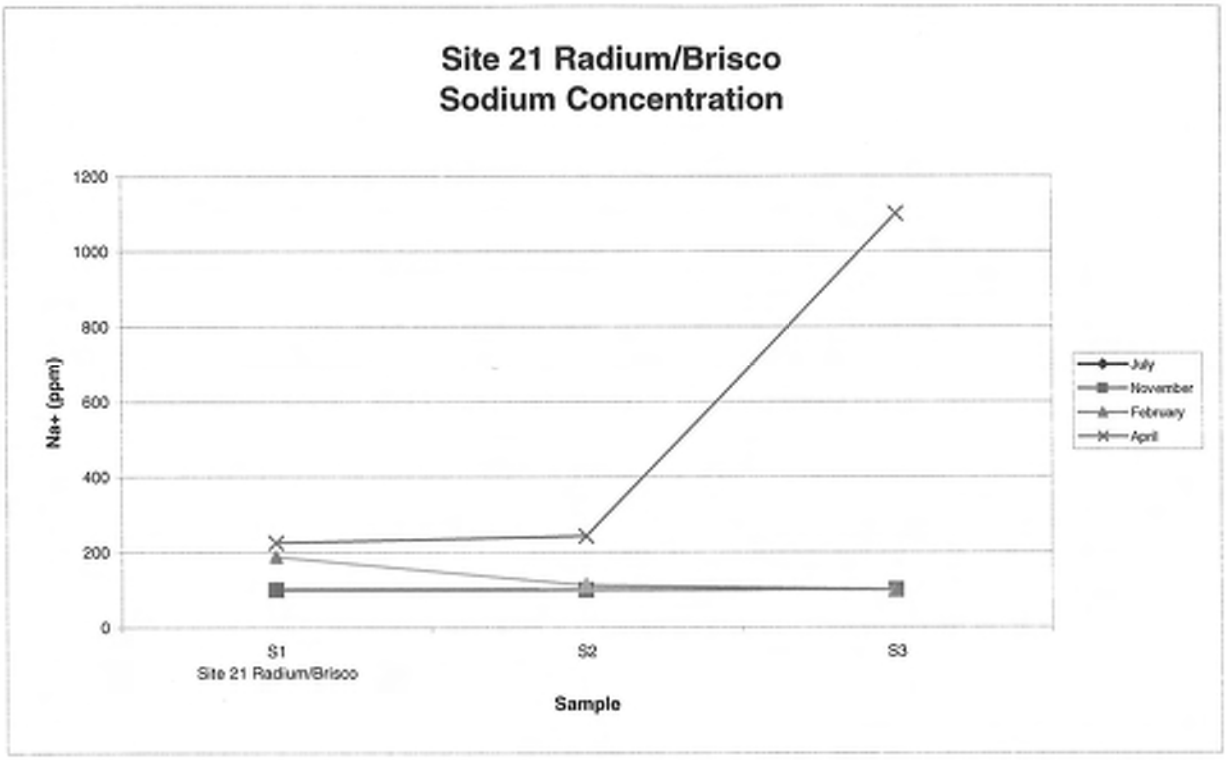

Site 20 Revelstoke
Chloride Concentration
Cl- (ppm)
450
400
350
300
250
200
150
100
50
0
July
November
February
April
Sampling Period
S1
S2
S3

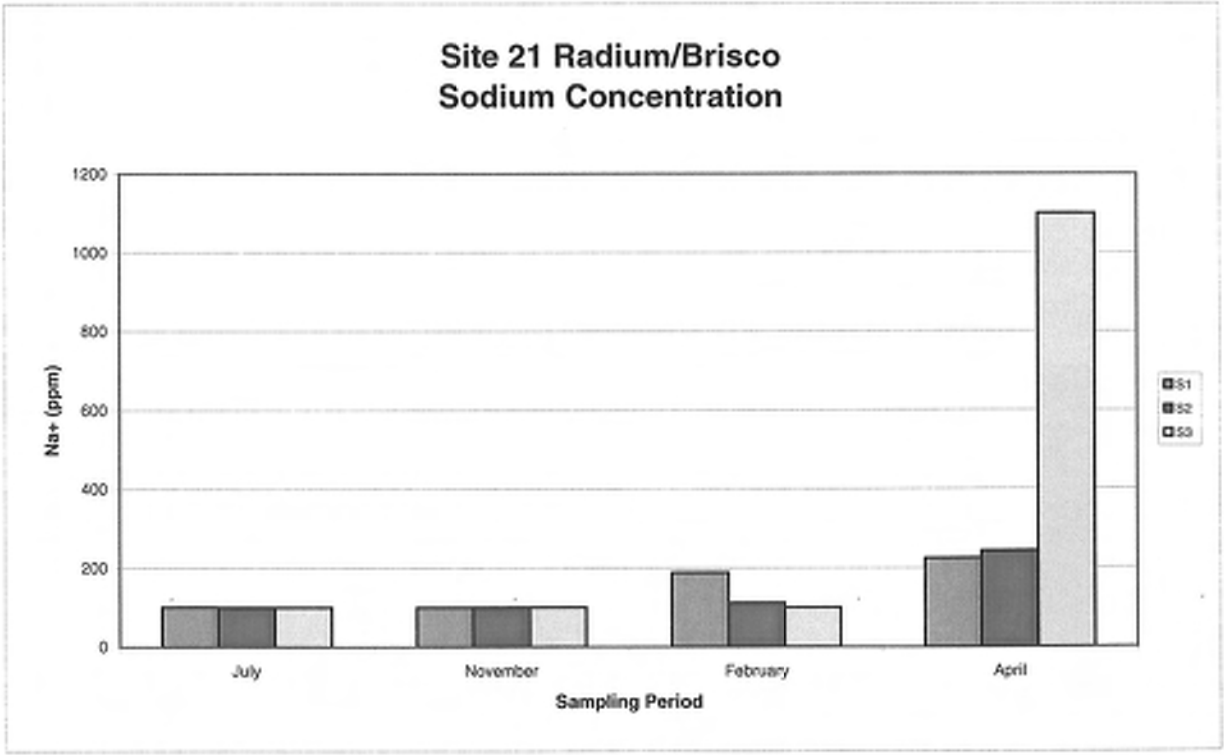

Site 20 Revelstoke
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 20 Revelstoke
S2
S3
Sample
July
November
February
April

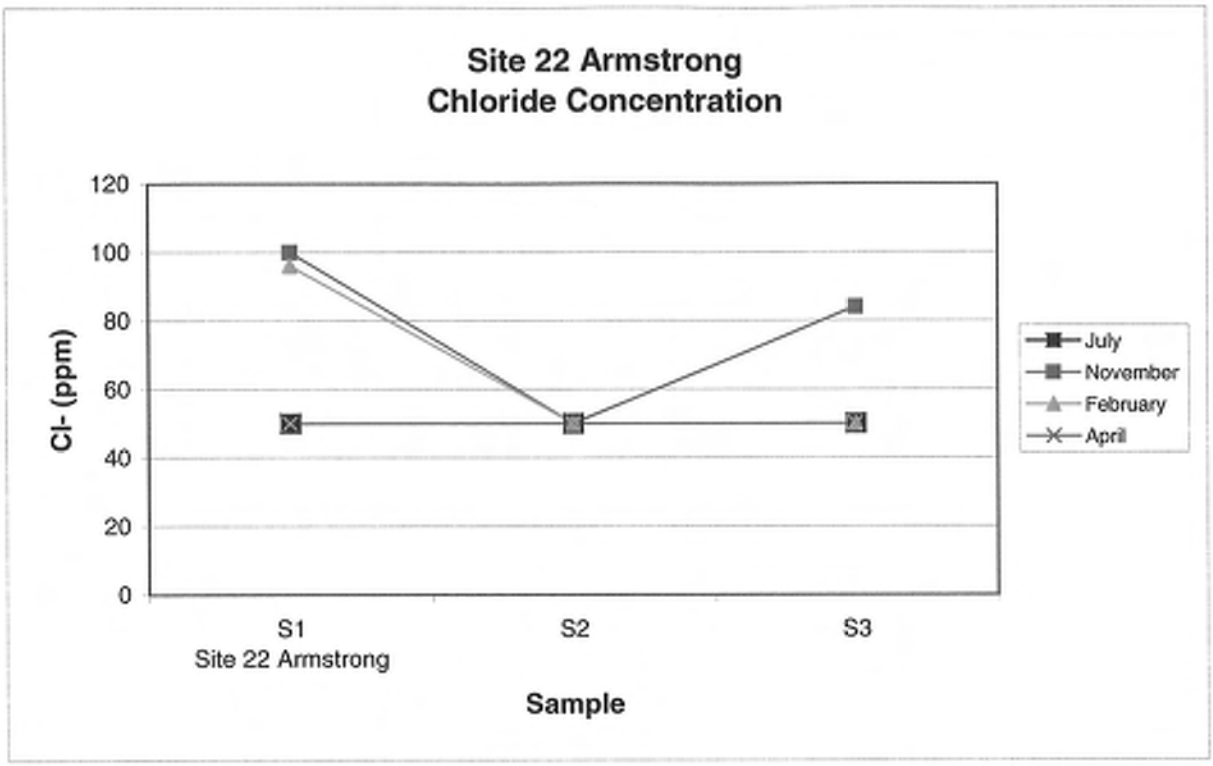

Site 20 Revelstoke
Sodium Concentration
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

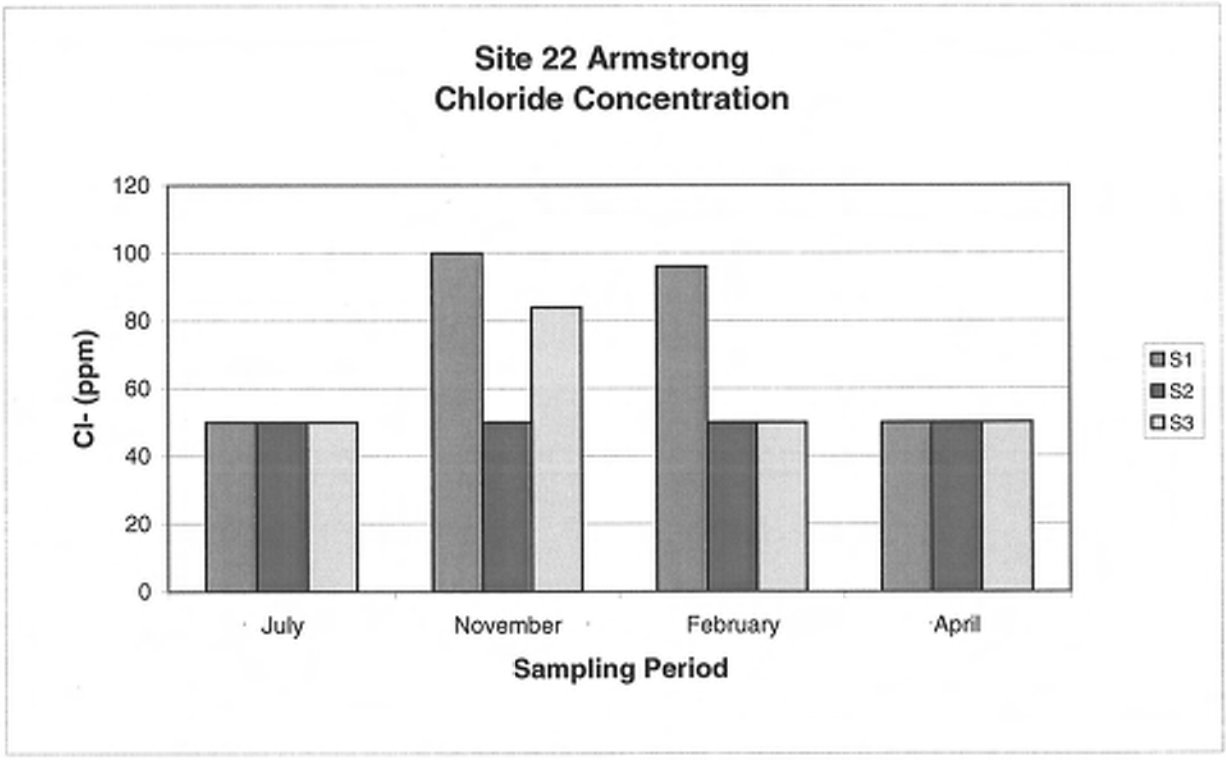

Site 21 Radium/Brisco
Chloride Concentration
1750
1500
1250
1000
750
500
250
0
Cl- (ppm)
S1
S2
S3
Site 21 Radium/Brisco
Sample
July
November
February
April

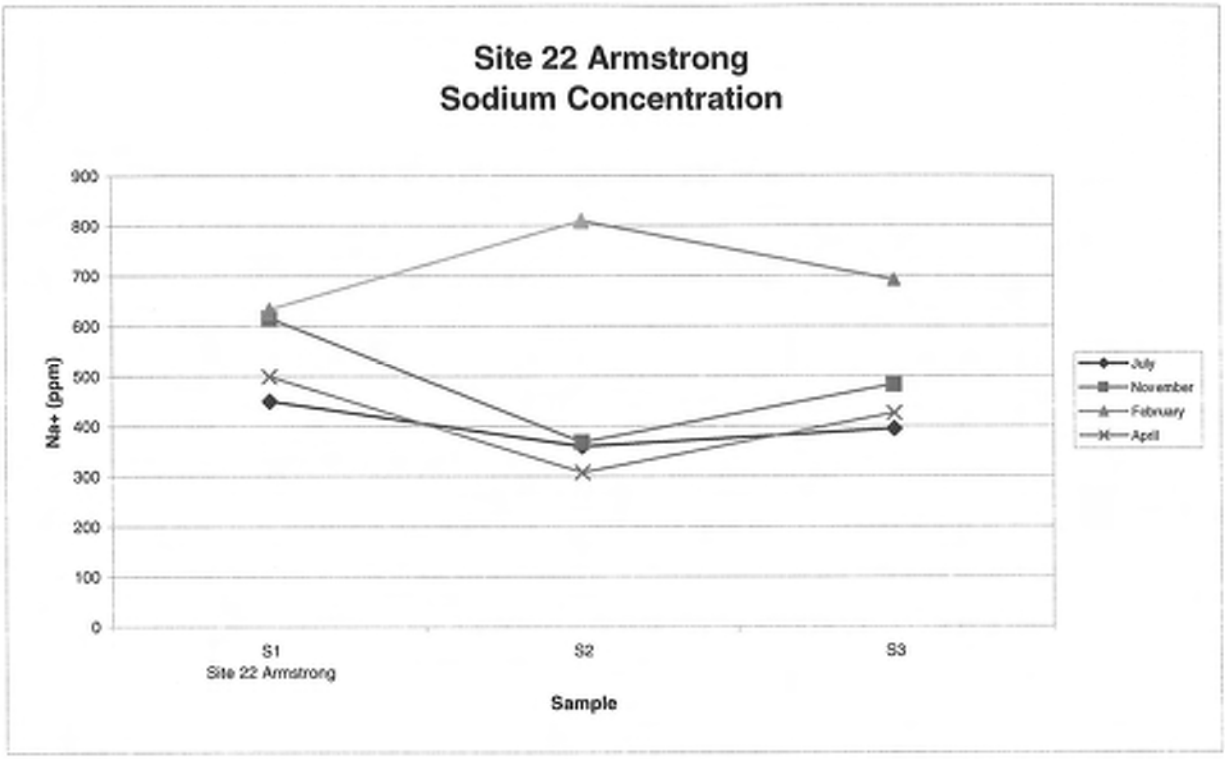

Site 21 Radium/Brisco
Chloride Concentration
1750
1500
1250
1000
750
500
250
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

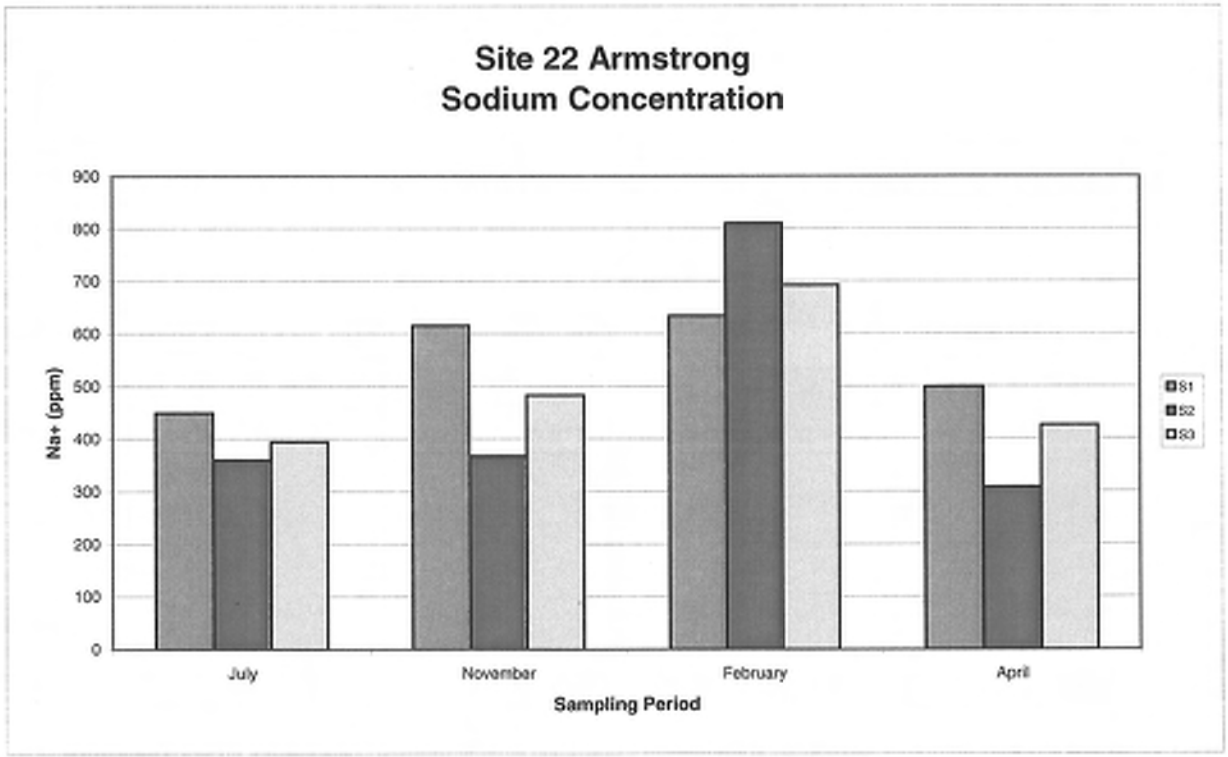

Site 21 Radium/Brisco
Sodium Concentration
1200
1000
800
600
400
200
0
Na+ (ppm)
July
November
February
April
S1
S2
S3
Site 21 Radium/Brisco
Sample

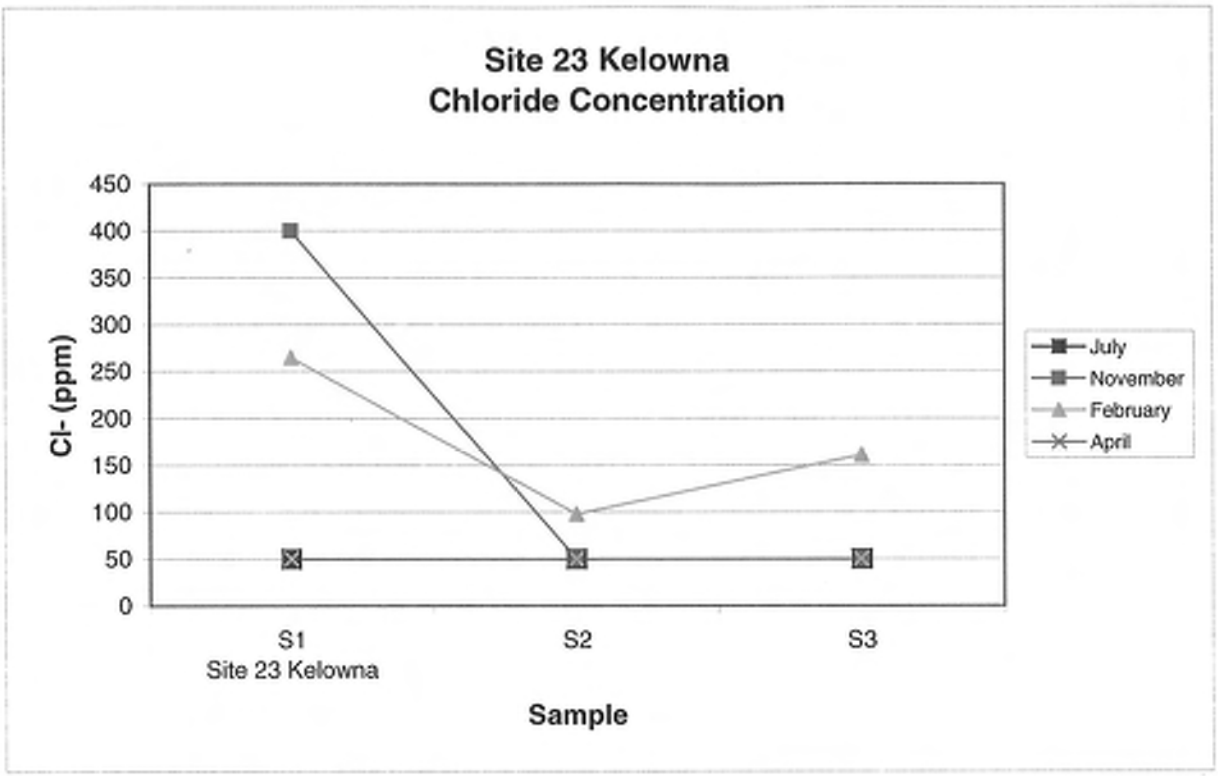

Site 21 Radium/Brisco
Sodium Concentration
1200
1000
800
600
400
200
0
Na+ (ppm)
S1
S2
S3
July
November
February
April
Sampling Period

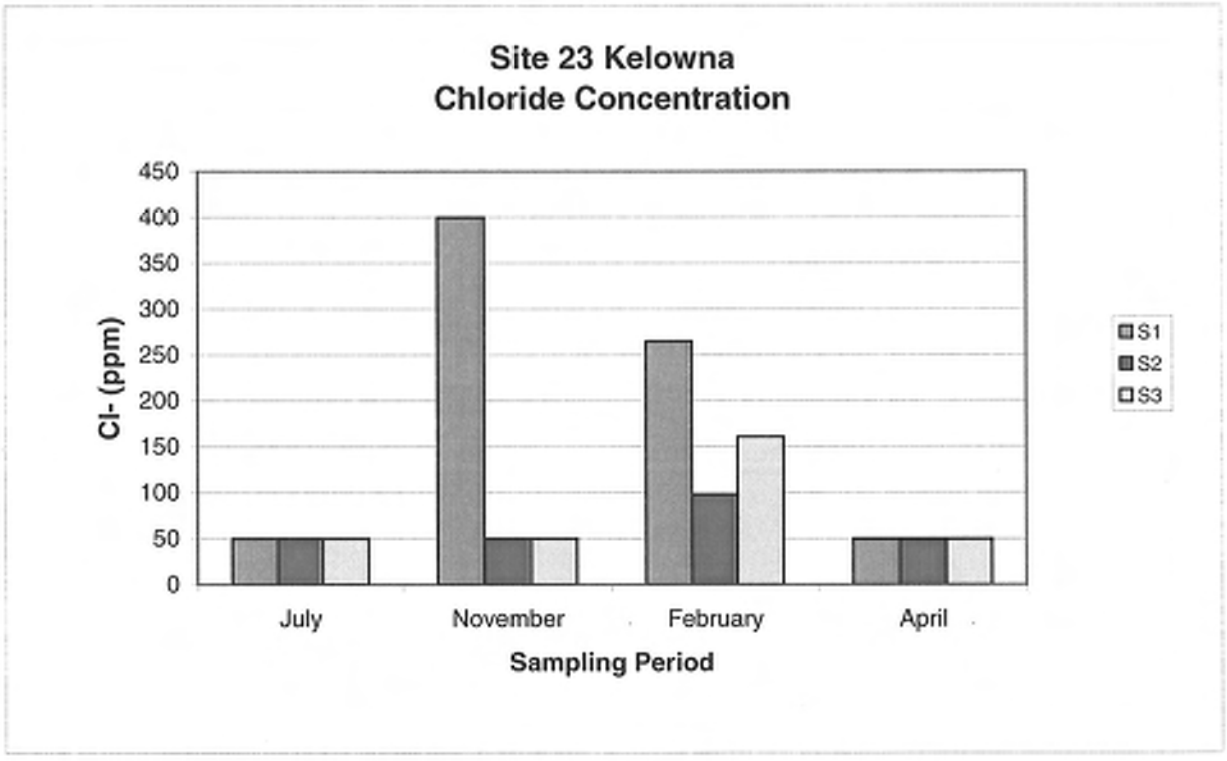

Site 22 Armstrong
Chloride Concentration
120
100
80
60
40
20
0
Cl- (ppm)
S1
Site 22 Armstrong
S2
S3
Sample
July
November
February
April

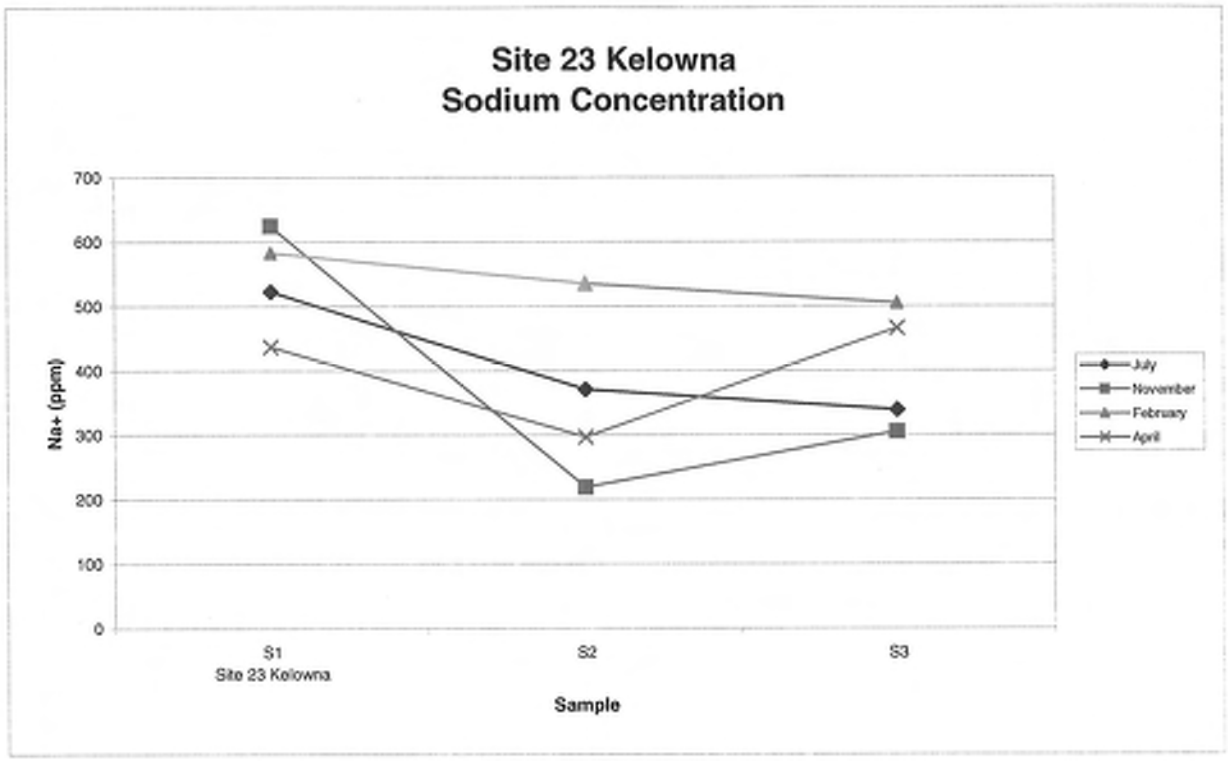

Site 22 Armstrong
Chloride Concentration
120
100
80
60
40
20
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

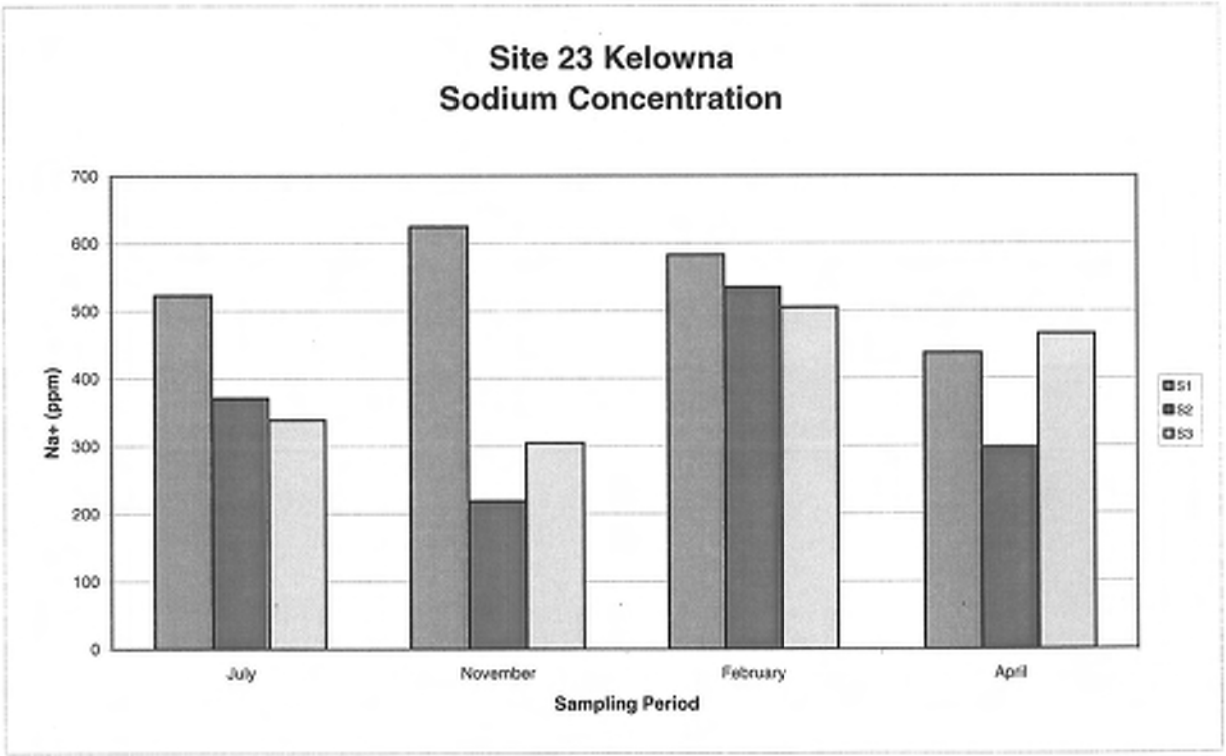

Site 22 Armstrong
Sodium Concentration
900
800
700
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 22 Armstrong
S2
S3
Sample
July
November
February
April

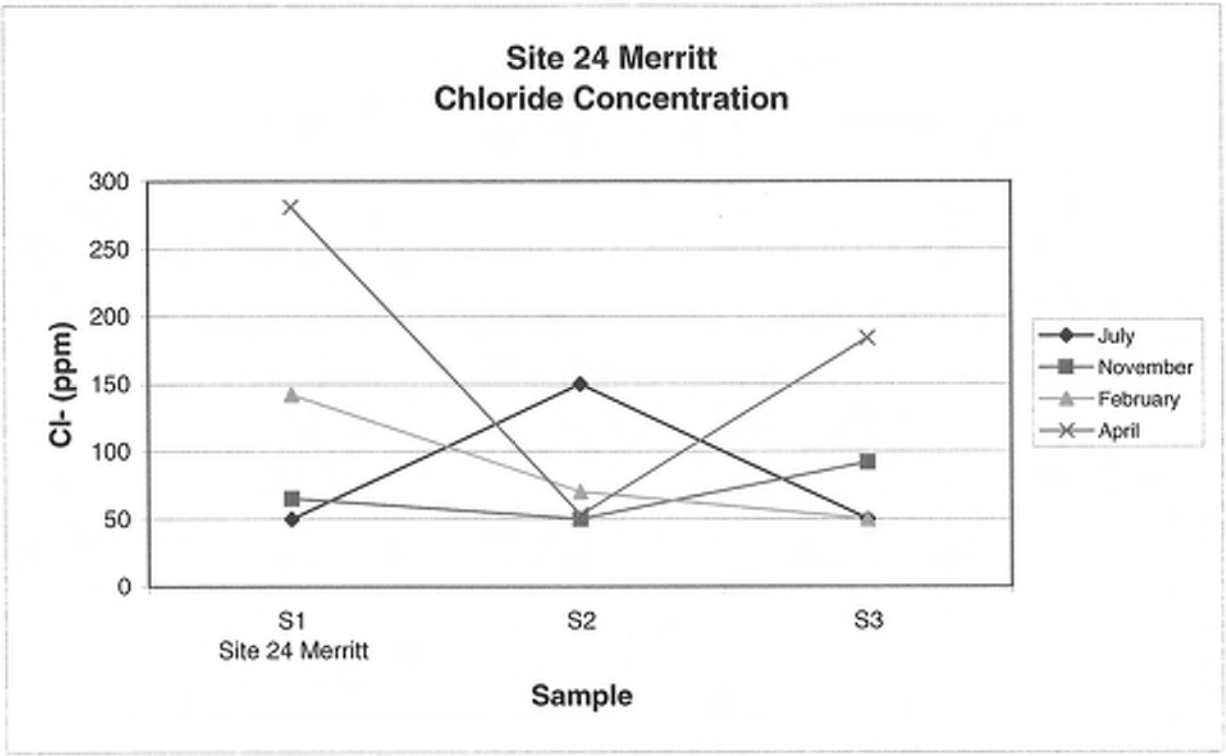

Site 22 Armstrong
Sodium Concentration
900
800
700
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

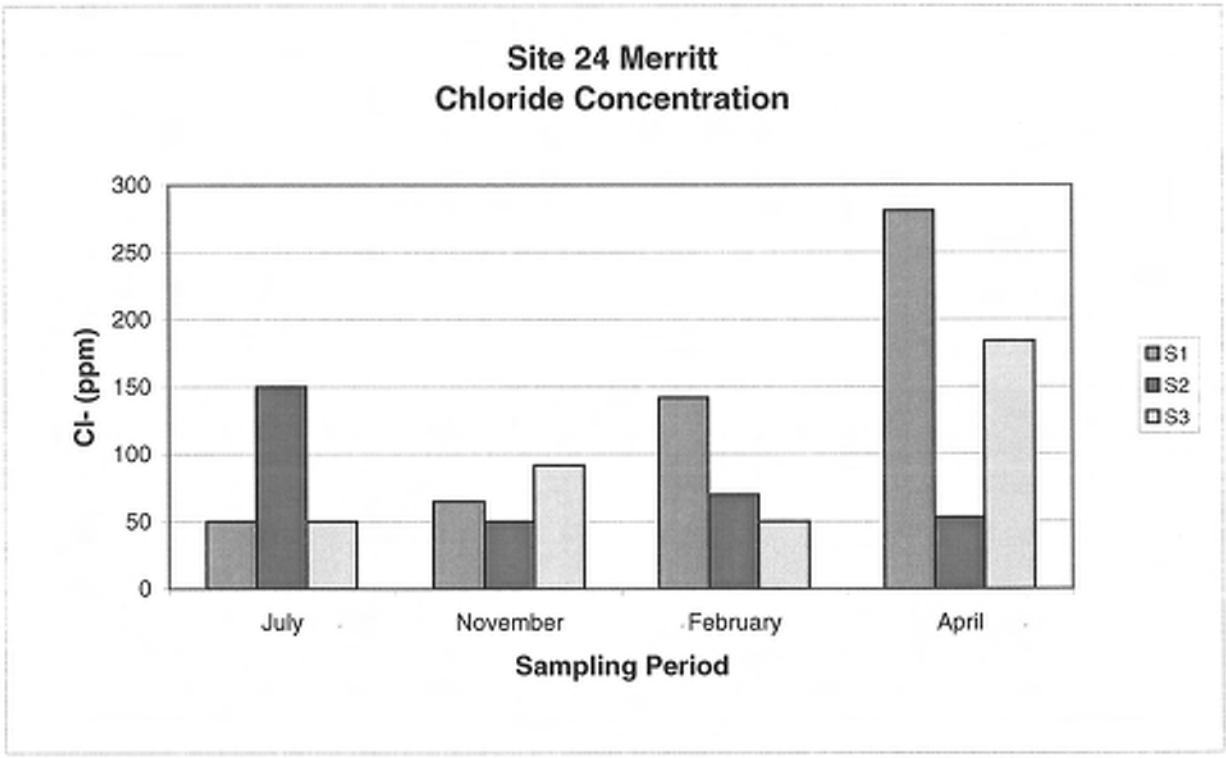

Site 23 Kelowna
Chloride Concentration
Cl- (ppm)
450
400
350
300
250
200
150
100
50
0
S1
Site 23 Kelowna
S2
S3
Sample
July
November
February
April

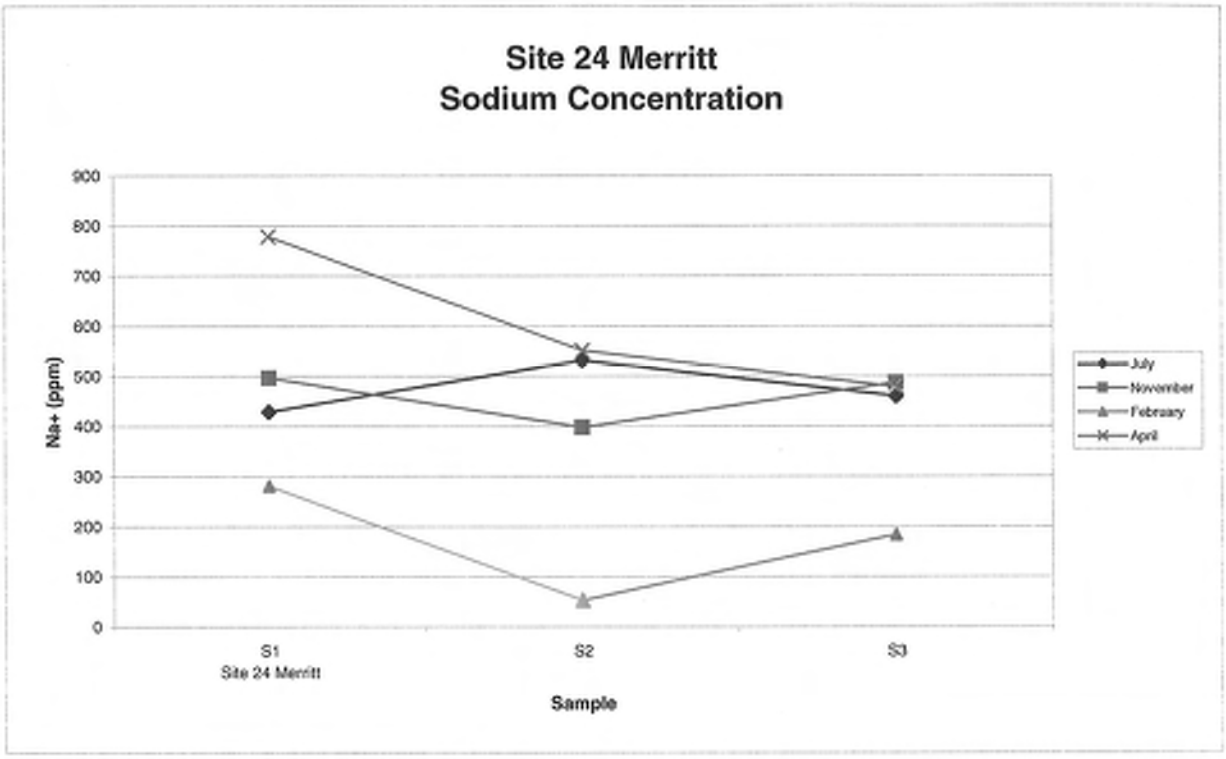

Site 23 Kelowna
Chloride Concentration
Cl- (ppm)
450
400
350
300
250
200
150
100
50
0
July
November
February
April
Sampling Period
S1
S2
S3

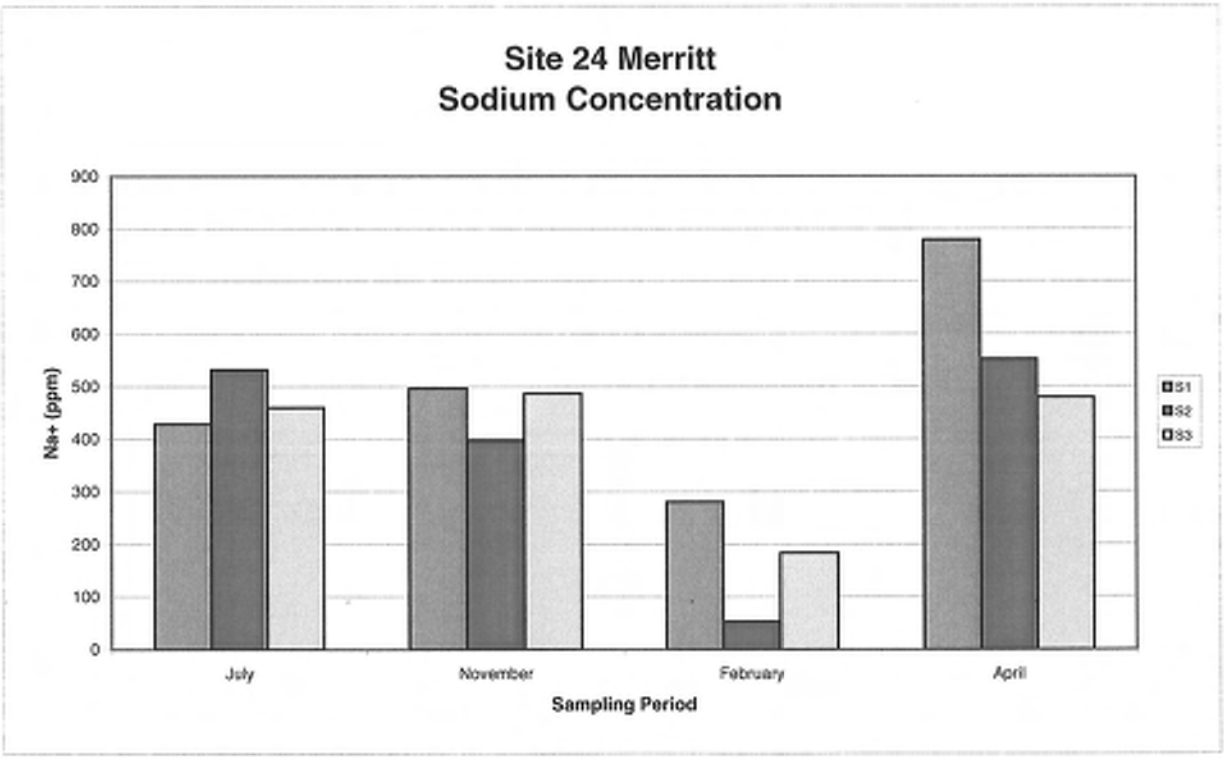

Site 23 Kelowna
Sodium Concentration
700
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 23 Kelowna
S2
S3
Sample
July
November
February
April

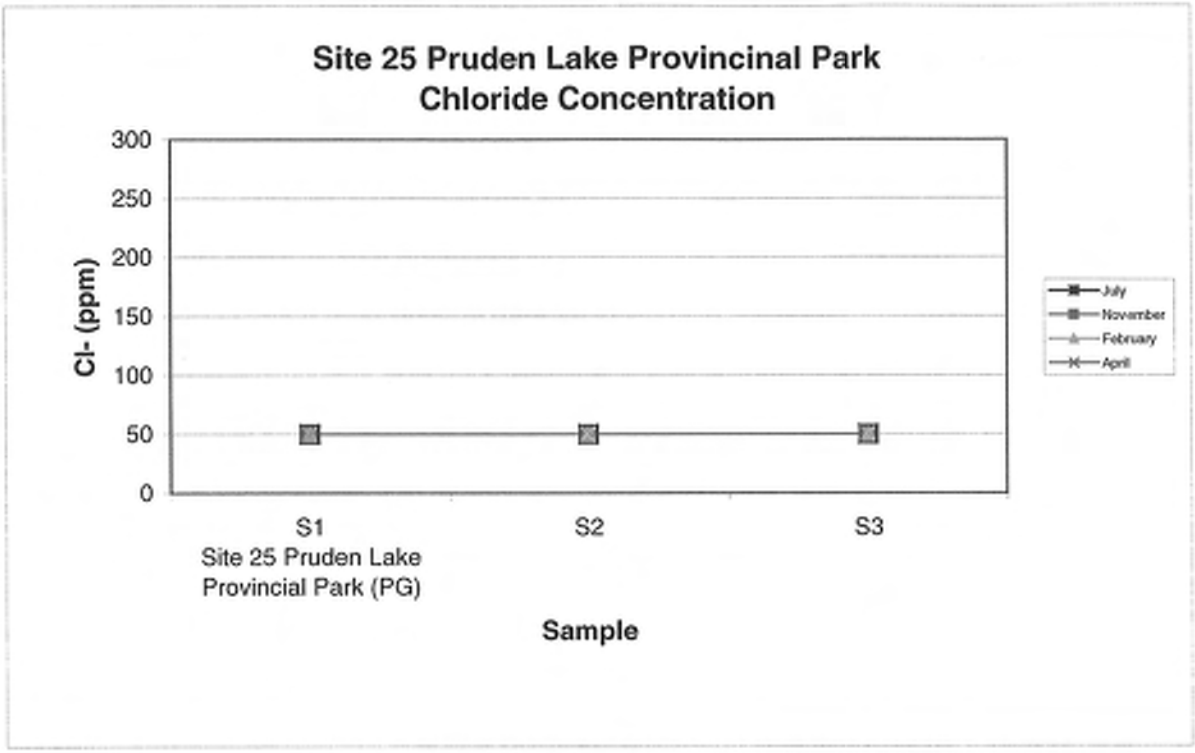

Site 23 Kelowna
Sodium Concentration
700
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

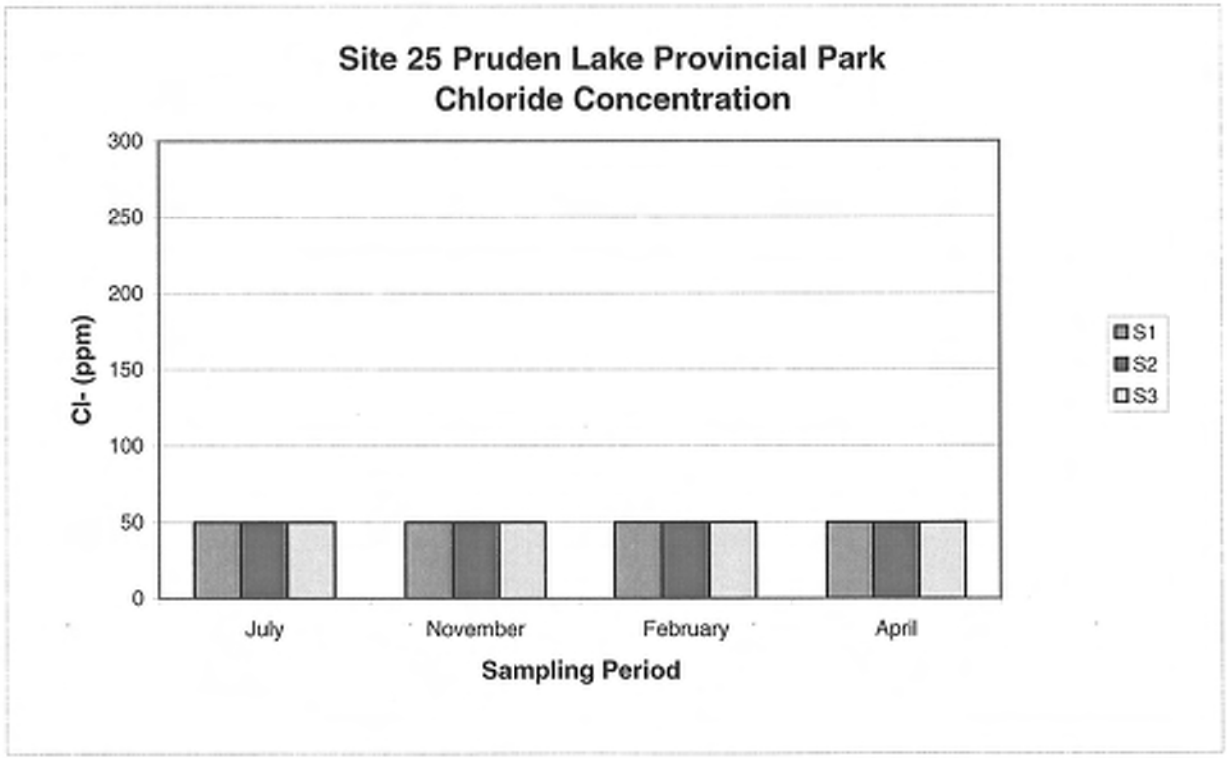

Site 24 Merritt
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
S1
Site 24 Merritt
S2
S3
Sample
July
November
February
April

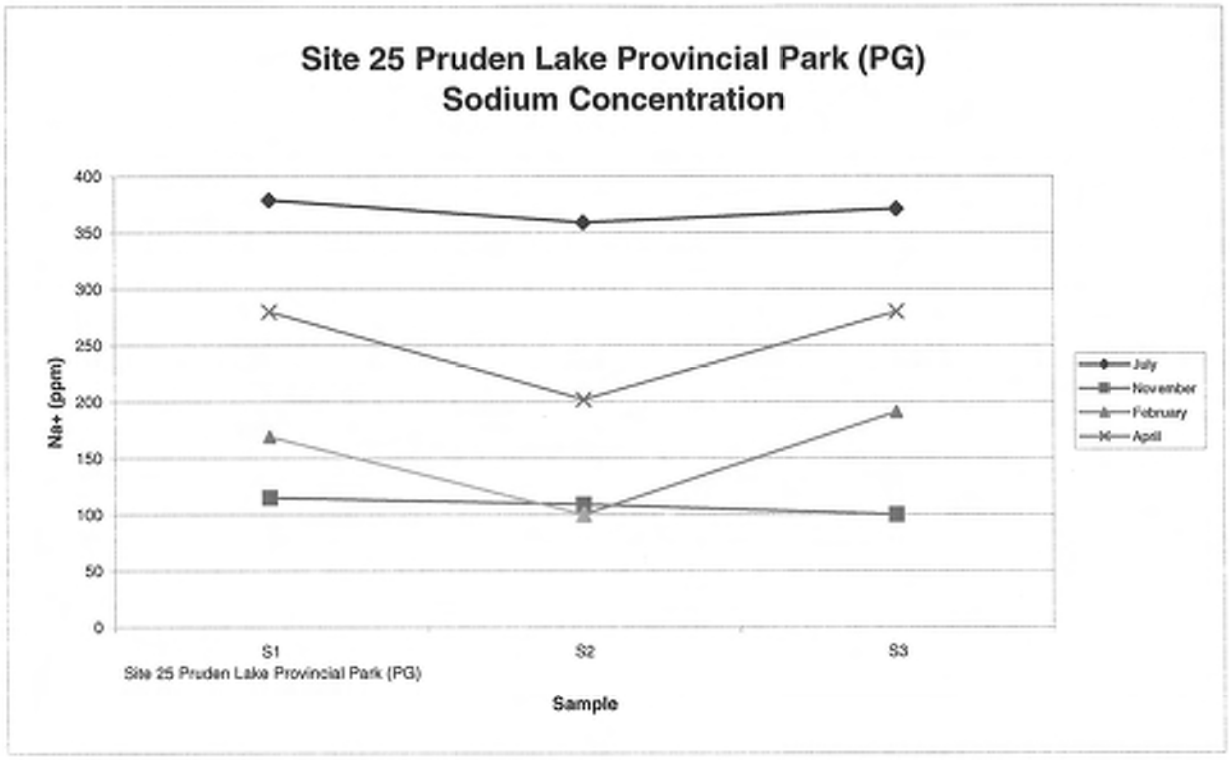

Site 24 Merritt
Chloride Concentration
300
250
200
150
100
50
0
Cl- (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

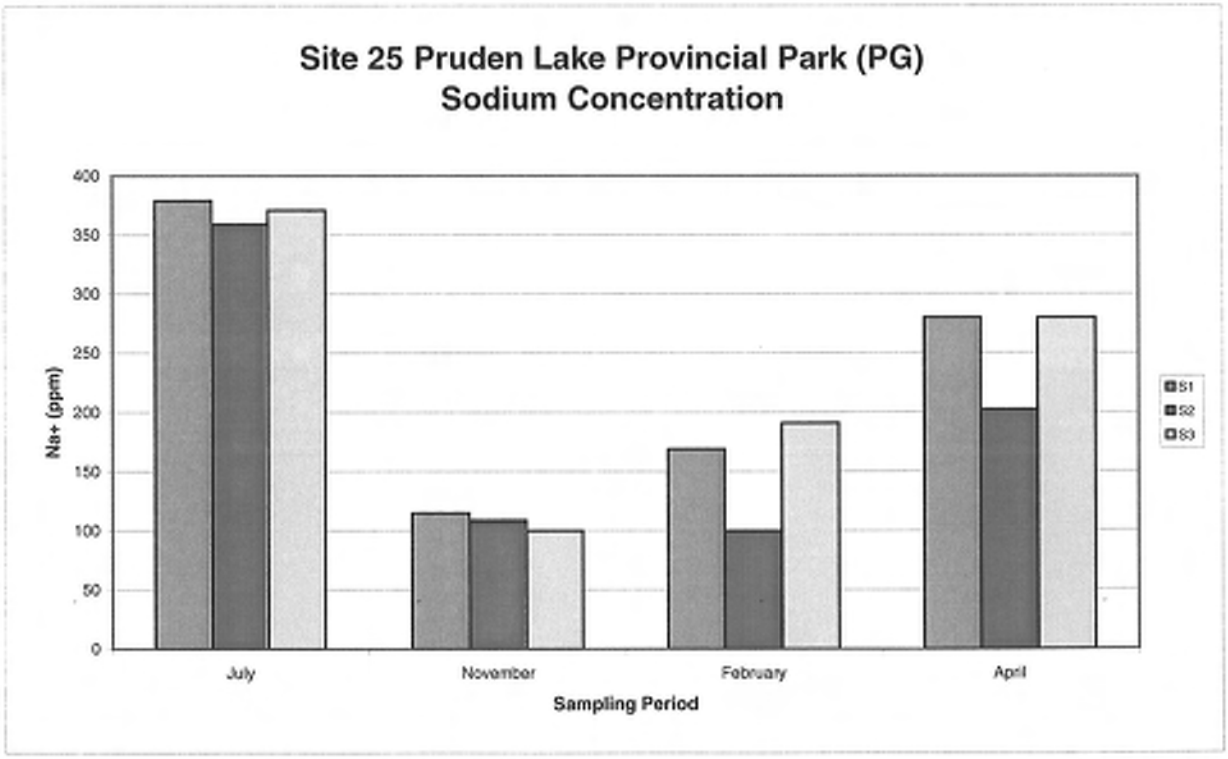

Site 24 Merritt
Sodium Concentration
900
800
700
600
500
400
300
200
100
0
Na+ (ppm)
S1
Site 24 Merritt
S2
S3
Sample
July
November
February
April

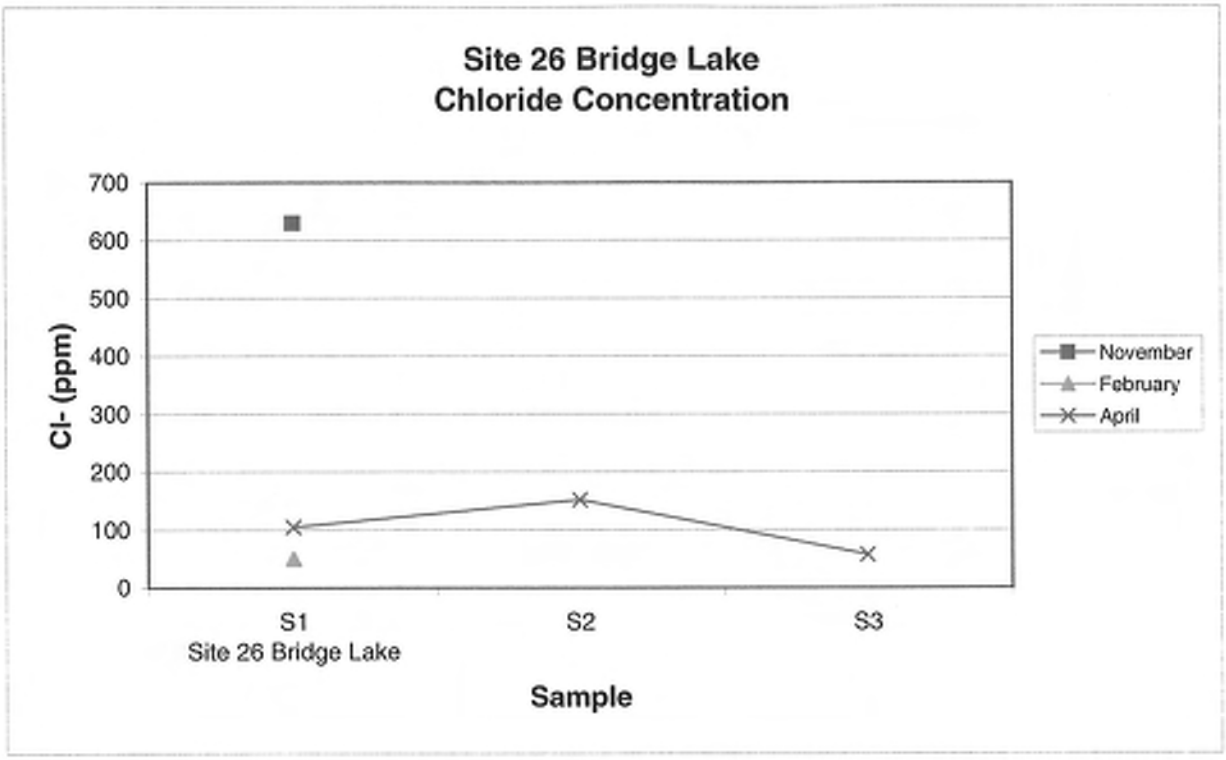

Site 24 Merritt
Sodium Concentration
900
800
700
600
500
400
300
200
100
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3

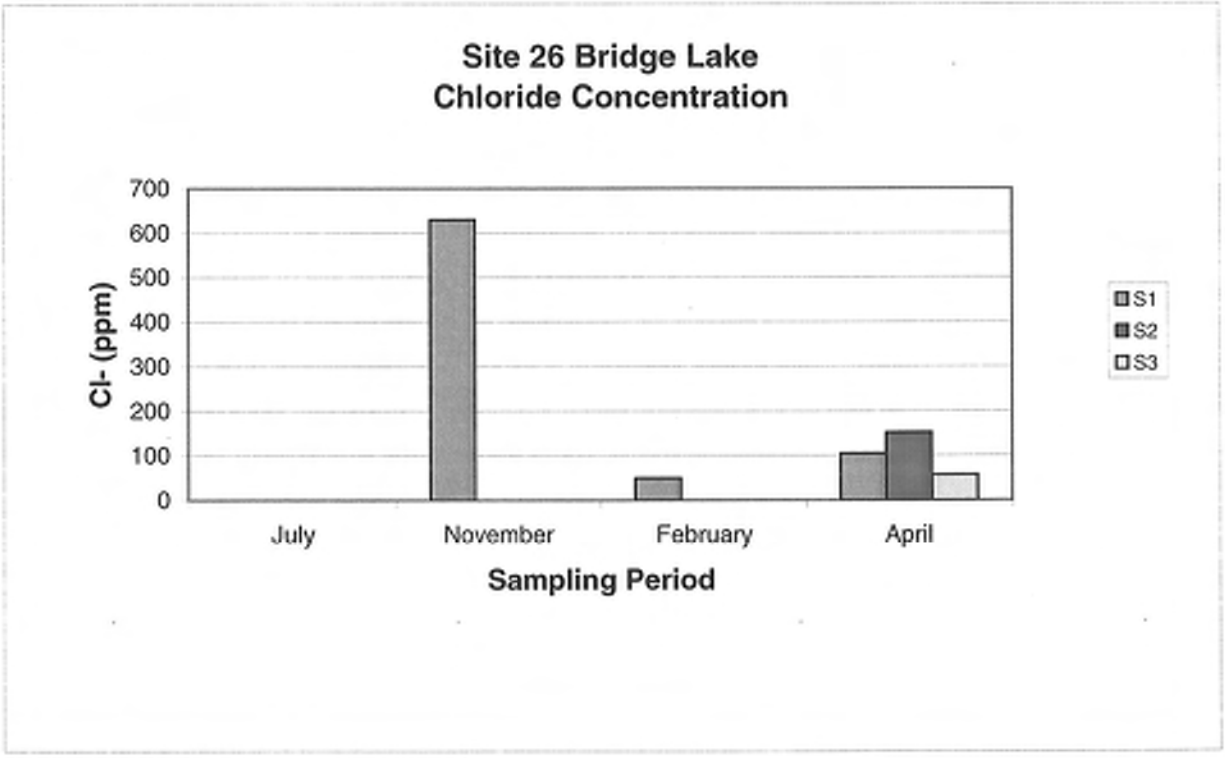

Site 25 Pruden Lake Provincinal Park
Chloride Concentration
Cl- (ppm)
300
250
200
150
100
50
0
S1
S2
S3
Site 25 Pruden Lake
Provincial Park (PG)
Sample
July
November
February
April

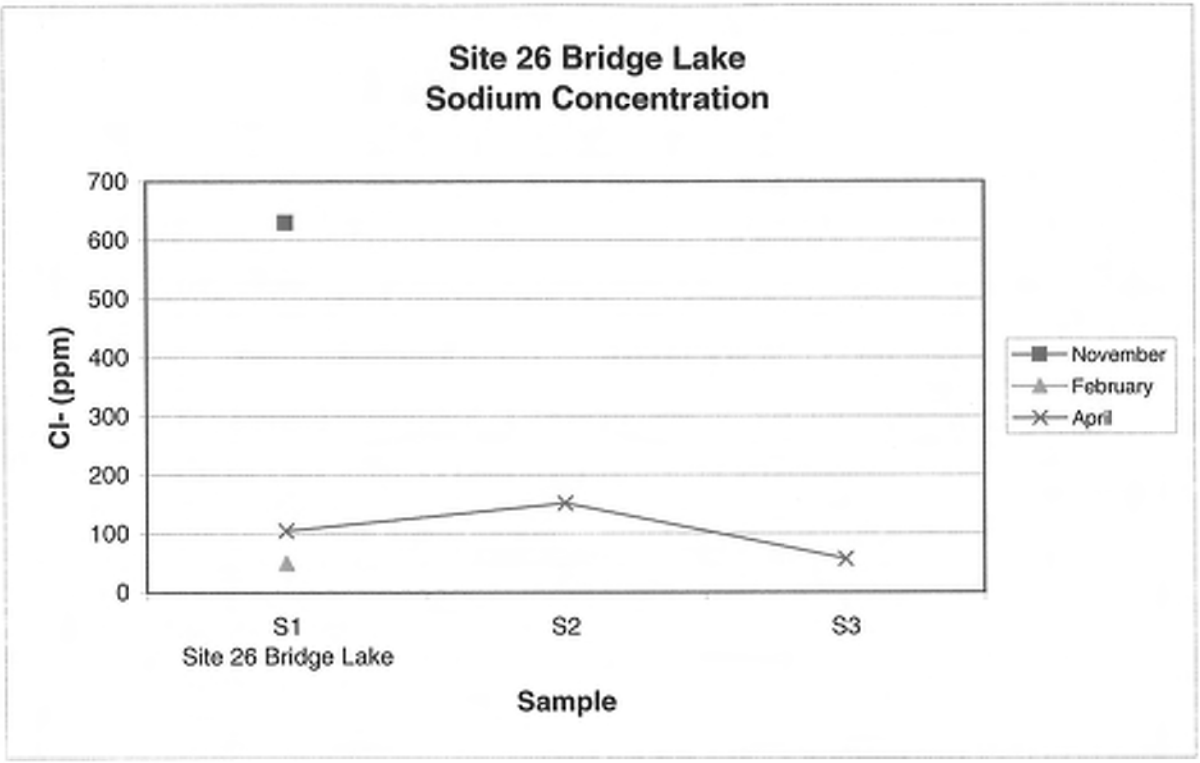

Site 25 Pruden Lake Provincial Park
Chloride Concentration
Cl- (ppm)
300
250
200
150
100
50
0
July
November
February
April
Sampling Period
S1
S2
S3

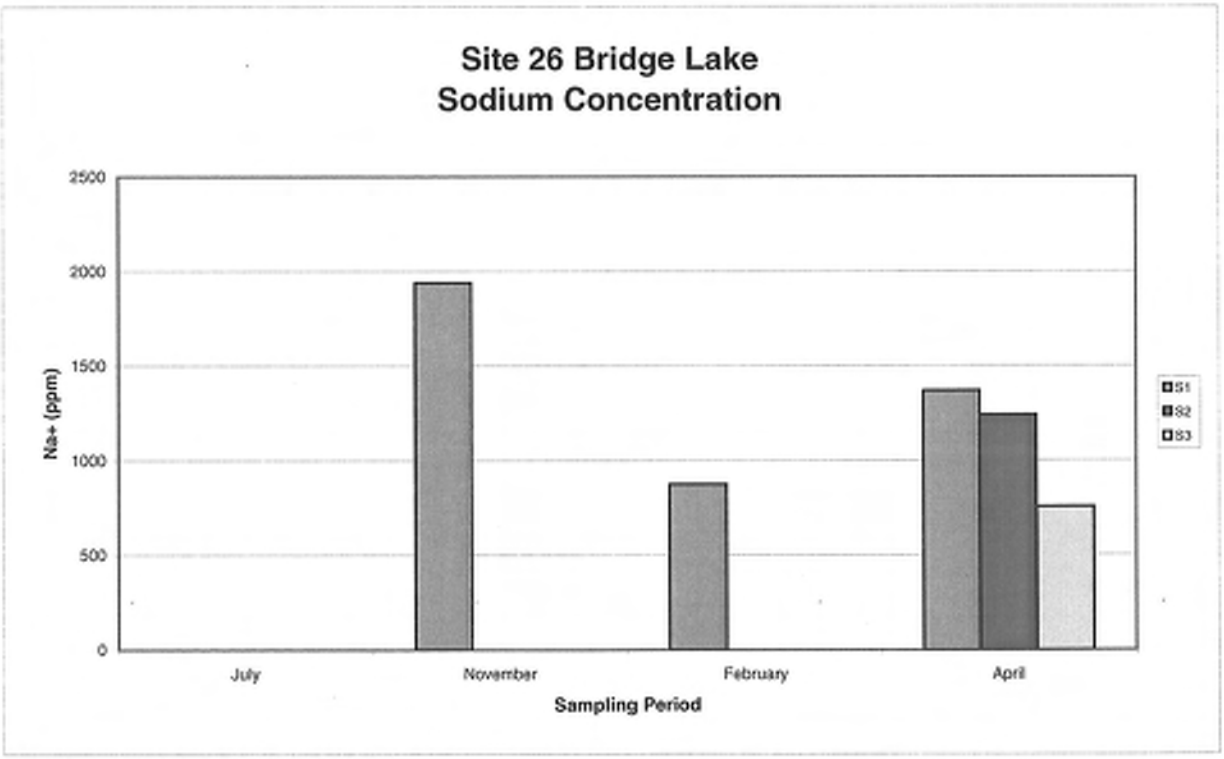

Site 25 Pruden Lake Provincial Park (PG)
Sodium Concentration
Na+ (ppm)
400
350
300
250
200
150
100
50
0
S1
S2
S3
Site 25 Pruden Lake Provincial Park (PG)
Sample
July
November
February
April

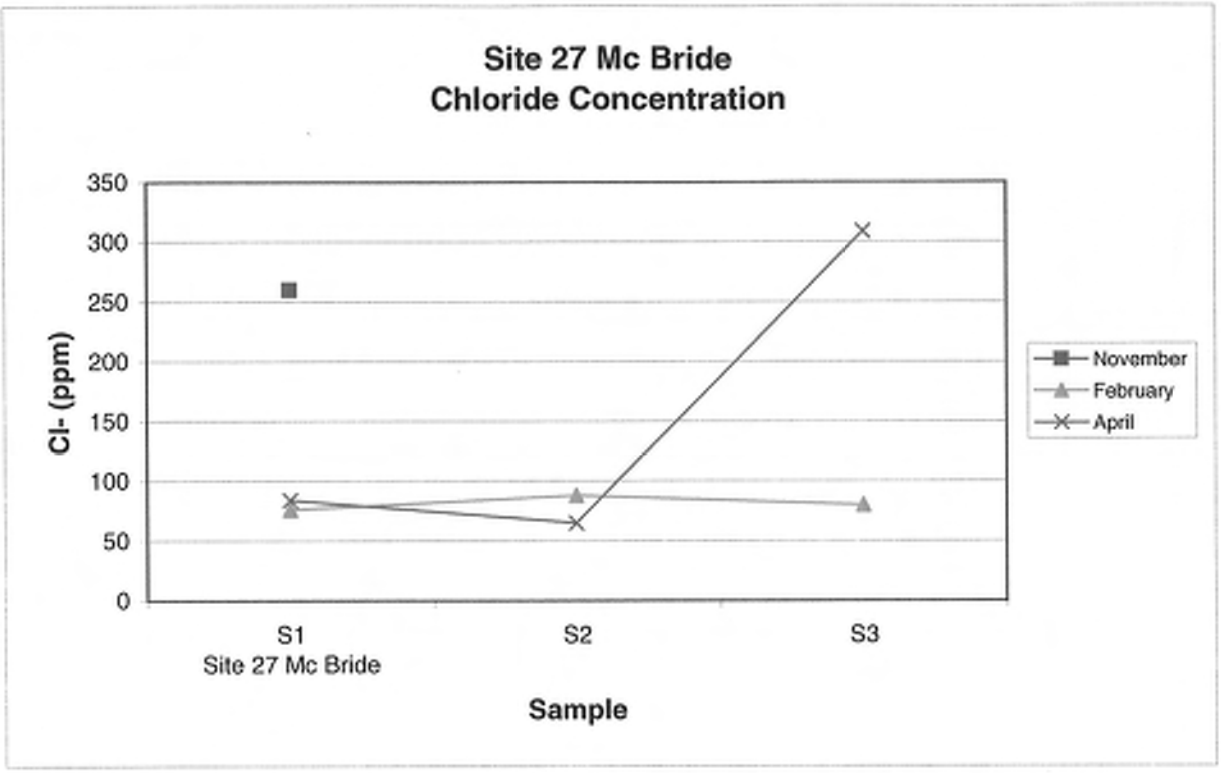

Site 25 Pruden Lake Provincial Park (PG)
Sodium Concentration
Na+ (ppm)
400
350
300
250
200
150
100
50
0
July
November
February
April
Sampling Period
S1
S2
S3

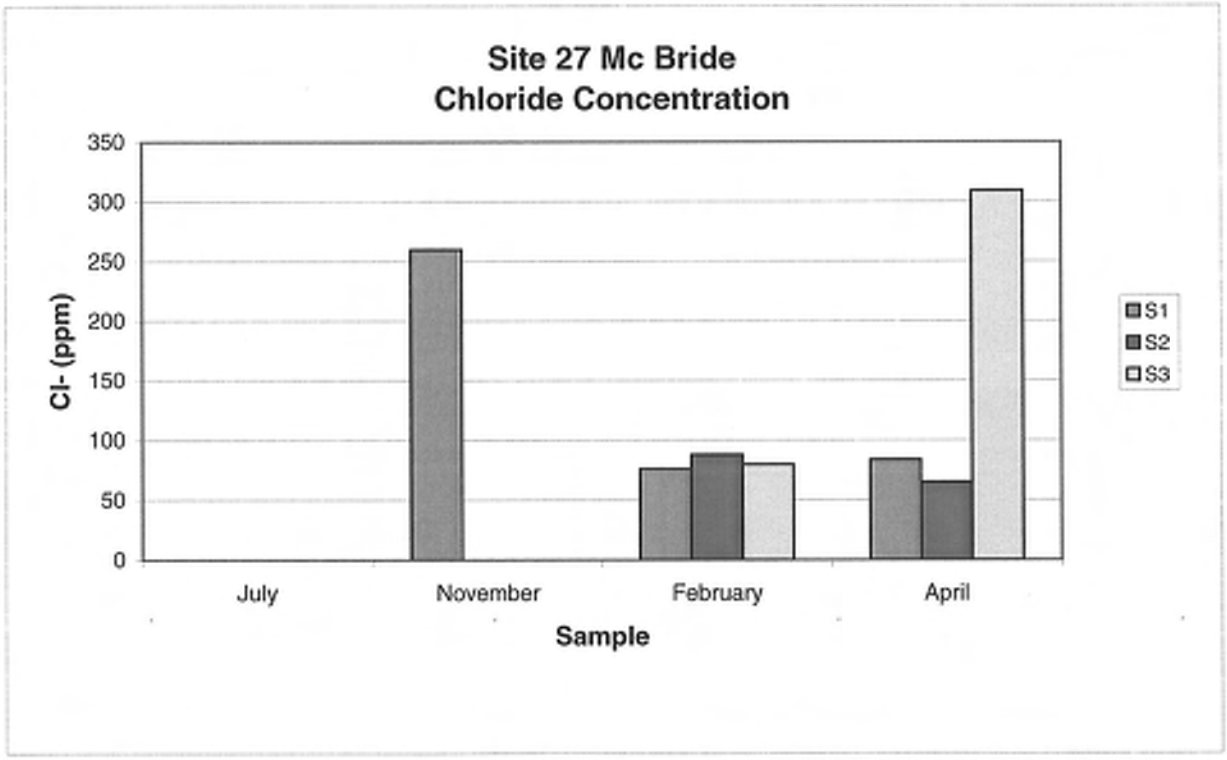

Site 26 Bridge Lake
Chloride Concentration
Cl- (ppm)
700
600
500
400
300
200
100
0
S1
S2
S3
Site 26 Bridge Lake
Sample
November
February
April

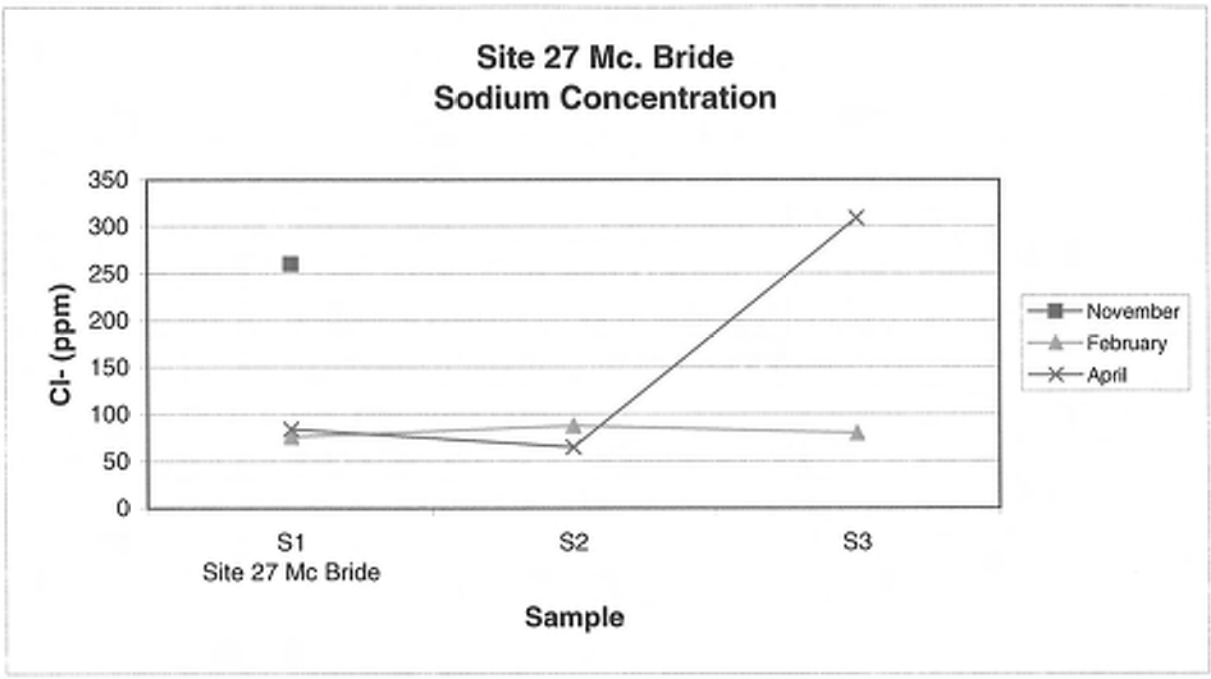

Site 26 Bridge Lake
Chloride Concentration
Cl- (ppm)
700
600
500
400
300
200
100
0
July
November
February
April
Sampling Period
S1
S2
S3

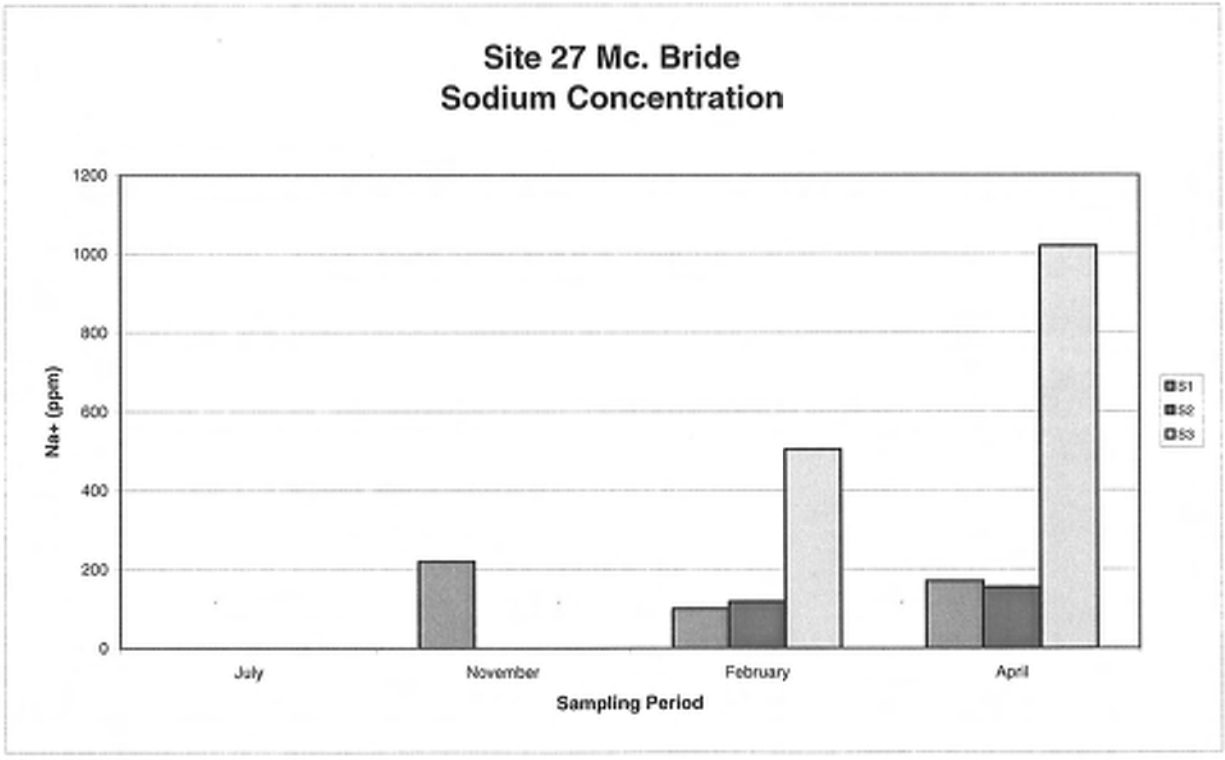

Site 26 Bridge Lake
Sodium Concentration
700
600
500
400
300
200
100
0
Cl- (ppm)
S1
S2
S3
Site 26 Bridge Lake
Sample
November
February
April


Site 26 Bridge Lake
Sodium Concentration
2500
2000
1500
1000
500
0
Na+ (ppm)
July
November
February
April
Sampling Period
S1
S2
S3


Site 27 Mc Bride
Chloride Concentration
Cl- (ppm)
350
300
250
200
150
100
50
0
S1
Site 27 Mc Bride
S2
S3
Sample
November
February
April


Site 27 Mc Bride
Chloride Concentration
Cl- (ppm)
350
300
250
200
150
100
50
0
July
November
February
April
Sample
S1
S2
S3


Site 27 Mc. Bride
Sodium Concentration
Cl- (ppm)
350
300
250
200
150
100
50
0
S1
S2
S3
Site 27 Mc Bride
Sample
November
February
April


Site 27 Mc. Bride
Sodium Concentration
Na+ (ppm)
1200
1000
800
600
400
200
0
July
November
February
April
Sampling Period
S1
S2
S3