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Sä Dena Hes Mine
2003 Annual Report
Yukon Production Licence QML - 0004

Prepared by
Bruce Donald
November 2004

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1.0 SUMMARY

A Joint Venture consisting of Teck Cominco Limited (25%), Teck Cominco Metals Ltd. (25%), and Pan-Pacific Metal Mining Corporation (50%) (a wholly owned subsidiary of Korea Zinc) formed the Sä Dena Hes Operating Corporation which purchased the Sä Dena Hes Mine from Coopers and Lybrand Ltd. the appointed Court Receiver, in March 1994. Teck Cominco Ltd. operates the mine under an Agreement with the Joint Venture Partners. Full-time security and property management is provided by Teck Cominco Ltd. through on-site personnel. The mine operation continued to be maintained on a 'Temporary Closure' basis throughout 2003. In 2001 Sä Dena Hes was granted a Yukon Quartz Mining Production Licence QML-0004 ('Production Licence'). This report is submitted in compliance with Section 13 of the Production Licence.

2.0 PRODUCTION DATA

The mine was under 'Temporary Closure' status throughout 2003.

2.1 Ore & Waste Mined

Ore Produced ..... 0 tonnes

Waste Produced ..... 0 tonnes

2.2 Head Grades Processed

Zinc Grade ..... N. A.

Lead Grade..... N. A.

2.3 Concentrate Production

Zinc Concentrate ..... 0 tonnes

Lead Concentrate .... 0 tonnes

2.4 Stockpiles

Ore Stockpiles ..... 0 tonnes

3.0 FORECAST MINE LIFE

Expected mine life would is approximately 4 years based on current resources. The Mineral Resources have not changed from 2002 and are as follows (taken from 2003 Teck Cominco Limited Annual Report):

Mineral Resources

Indicated ..... 2,190,000 tonnes

Zinc 10.4%

Lead 2.6%

4.0 Backfill Placed Underground

There was no backfill placed underground during 2003.

5.0 MINE PLANS

Mine plans and sections were submitted with the Production Licence 2001 Annual Report. They are not being resubmitted as there have been no changes to the plans in 2003.

6.0 RECLAMATION

The site was in Temporary Closure throughout the year awaiting return of economic metal prices. Site reclamation activities were related to study activity.

6.1 Reclamation Plan

During 2001, the CEAA screening of the "Sä Dena Hes Mine Detailed Decommissioning & Reclamation Plan – February 2000" ('Reclamation Plan') was completed. The Production Licence requires the Plan to be up dated prior to the end of 2005 during Temporary Closure or within two years of resumption of production. This requirement is consistent with requirements of the Type A Water Licence for the site (QZ99-045).

6.2 Revegetation Studies

The Reclamation Plan proposed Revegetation studies in Section 3.6 of the report. The Production Licence requires that the testing proposed in Section 3.6 and 3.6.2.1 be conducted.

In 2000, the initial work related to Revegetation was initiated to obtain basic information for use in designing the revegetation test work. In 2001 and 2002 revegetation studies continued and the information reported on an annual basis. In 2003 progress monitoring of the vegetation program was continued by Access Consulting Group and the resulting report 'Results Summary of Phase II Revegetation Test Program – 2003' is included in Appendix A.

7.0 Solid Waste Disposal

7.1 Solid Waste Disposal & Recycling

The site is in Temporary Closure with one person living on-site. All putrescible waste has been stored in animal proof containers prior to disposal. The site generates waste oil from onsite power generation and mobile equipment. During Temporary Closure the quantity of used oil generated is limited. The oil is held in storage containers on site pending proper disposal and/or recycling offsite.

7.2 Inventory of Wastes Placed in the Landfill

There were no wastes placed into the landfill in 2003. Putrescible wastes from the caretaker taken to the local municipal landfill on a regular basis.

8.0 Wildlife Observations

The Production Licence requires that sightings of wildlife at the mine site are reported on an annual basis. The caretaker who resides at the site records wildlife sightings in a log book retained at the site and a summary of this information has been complied and is attached in Appendix B.

9.0 Production Plans for 2004

The mine was in Temporary Closure throughout 2003. Metals prices improved slightly during the year but continued low by historic measures. Unless there is a substantial increase in metals prices in 2004, there are no plans to resume production in 2004.

Teck Cominco Limited remains committed to re-open and operate the mine once metals prices return to economic levels.

Bruce J. Donald, P. Eng. (B.C.)
Reclamation Manager,
Environment and Corporate Affairs
Teck Cominco Limited

APPENDIX A

RESULTS SUMMARY OF

PHASE II REVEGETATION TEST PROGRAM

2003

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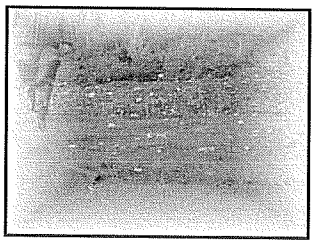
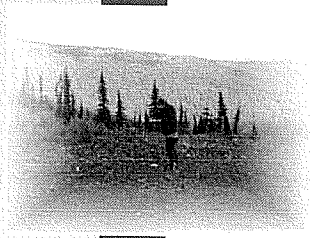
SÄ DENA HES MINE
LAND RECLAMATION AND REVEGETATION PLAN

RESULTS SUMMARY OF

Phase II Revegetation Test Program - 2003





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April 2004

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1.0 INTRODUCTION

In February 2000, Cominco submitted a Detailed Decommissioning & Reclamation Plan (the "DDRP") for the Sä Dena Hes mine to the Yukon Territory Water Board. As part of the DDRP, a land reclamation and revegetation plan and test program was proposed with the overall goal of preparing the site for closure so that revegetation efforts would assist in returning the site to a state that existed prior to mining activities.

Figure 1 shows the general location of the mine in the Yukon.

The primary objectives of the revegetation test program are to:

- Determine seed mixtures that will provide short-term soil stability while allowing the natural invasion of local plant species;
- Determine fertilizer applications optimal for sustaining the healthy growth of seeded species without inhibiting colonization by indigenous plant species;
- Investigate methods of encouraging natural plant succession on reclaimed surfaces; and
- Determine potential success rates of revegetation at test plots on different areas of the mine site, in particular the tailings management facility.

The revegetation and reclamation program for the site is being undertaken in phases, with the results of the initial program used to further define subsequent phases. The DDRP outlined a program of additional data collection and test work in order to support the overall revegetation and reclamation components of the DDRP. The program included:

Phase I:

- Completing an inventory of soils around the site necessary to provide revegetative soil covers for various mine site components;
- Testing the available nutrients in soils; and
- Establishing initial shrub propagation trials.

Phase II:

- Establishing test plots using revegetation seed mixes; and
- Determining the metal uptake of the seeded plants.

The Phase I program, conducted in 2000, completed some of the tasks identified above, specifically, the soils inventory and nutrient testing. Test plots for shrub propagation trials were also established at two locations on the property. Recommendations resulting from the Phase I program detailed further efforts that would be required to successfully implement the DDRP and to complete the remaining revegetation test program tasks listed above. Results from the Phase I program are presented in a report prepared by Access Mining Consultants in 2001 (AMCL 2001).

2.0 PHASE II OBJECTIVES

2.1 2001 PROGRAM

The Phase II program was initiated in the fall of 2001. The objectives of the Phase II program were to continue the reclamation and revegetation activities identified in the DDRP. As mentioned in Section 1.0, the objectives were to:

- Establish test plots using revegetation seed mixes; and
- Determine the metal uptake of the seeded plants.

Access Consulting Group prepared a report in early 2002 describing the methods and results of the work conducted in 2001 (AMCL 2002). The report included a description of the seed test plots established in the fall of 2001 and the monitoring results of the shrub test plots established in 2000. The metal uptake analysis was not completed until 2003.

Figures 2 and 3 show the seed test plot locations.

2.2 2002 PROGRAM

The specific objectives for the 2002 season were to:

- Examine the test plots for vegetative growth;
- Assess the application rates of seed and fertilizer;
- Provide recommendations for future action.

A report prepared by Access Consulting Group in early 2003 (AMCL 2003) describes the methods and results of the 2002 monitoring program and recommended action for the 2003 season.

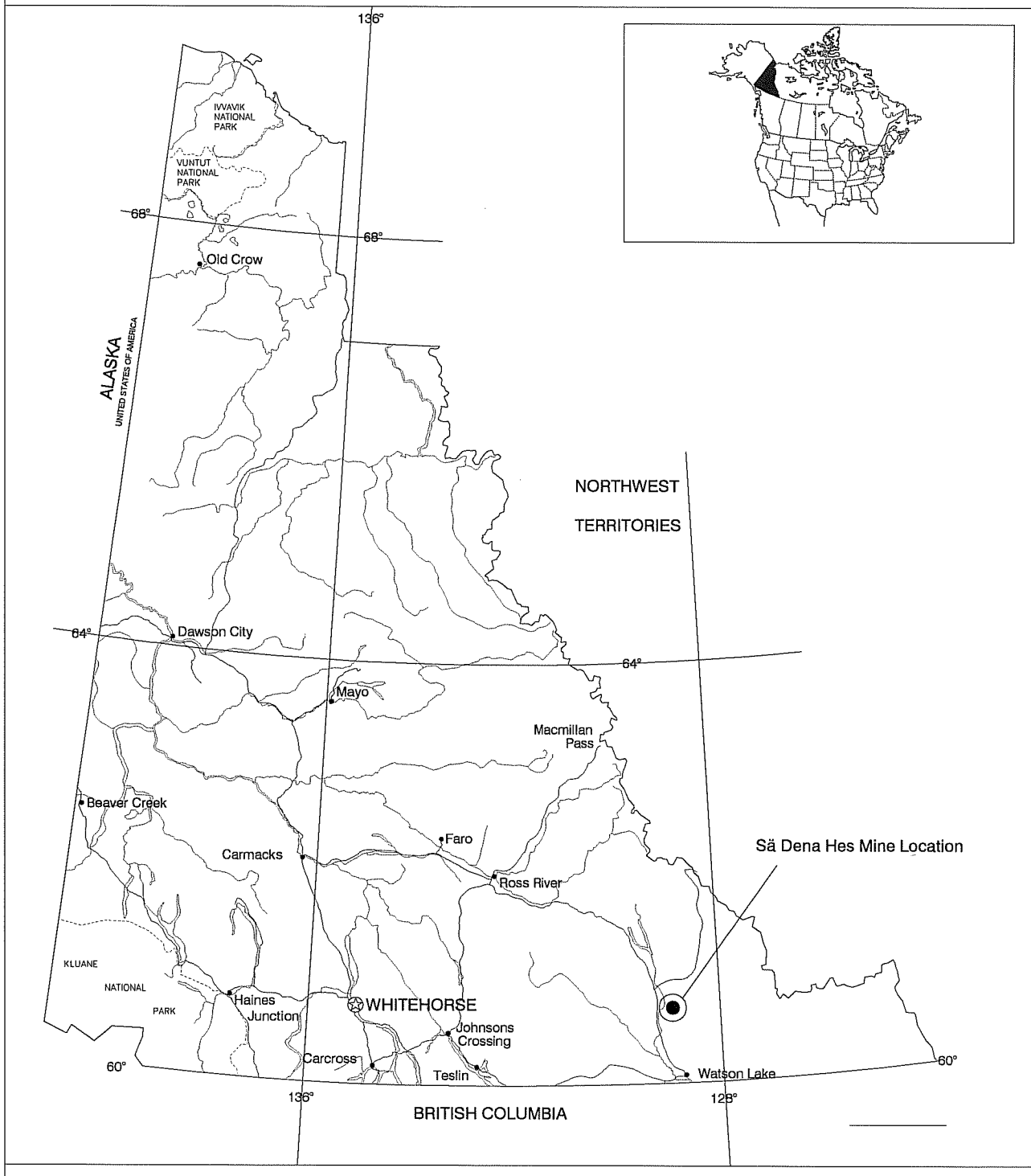
2.3 2003 PROGRAM

The specific objectives for the 2003 season were to:

- Examine the test plots for vegetative growth;
- Assess the application rates of seed and fertilizer and reapply seed and fertilizer as deemed appropriate;
- Provide recommendations for future action.

The following report sections describe the methods and results of the 2003 program and provide recommendations for the 2004 season.

Yukon Territory



300 0 100 200

KILOMETRES

Lambert Conformal Conic Projection
with Standard Parallels at 49°N and 77°N

- *Populated Settlements*
- ☆ *Territorial Capital*

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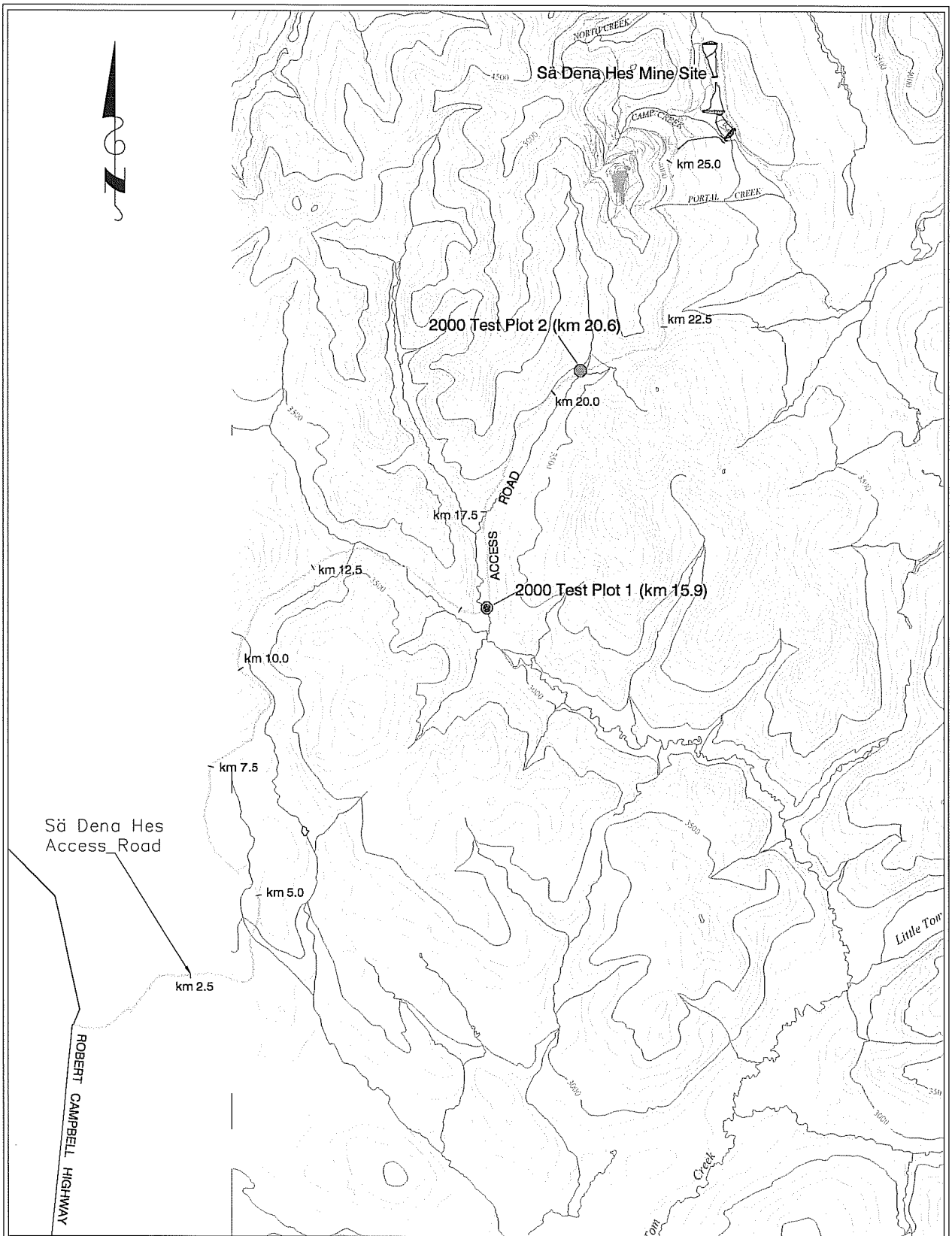
TeckCominco Ltd. Sä Dena Hes Mine
Land Reclamation & Revegetation Plan:
2003 Test Program Summary Report

General Location Map (Map of Yukon)

DRAWN BY: JEA	CHECKED BY: TR	Figure 1
DATE: 03-29-2004	SCALE 1: 6 000 000	



CONTOUR INTERVAL 100 FEET

0 600 1200 1800 2400 3000

1: 60 000

NOTE
BASE TOPOGRAPHY FROM NORTH AMERICAN DATUM 1983
ALL SURFACE FACILITIES AND BOUNDARIES HAVE BEEN
ADJUSTED FROM NAD 1927

Legend:

- Access Road
- Watercourse
- Test plot area

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Teck Cominco Ltd. Sä Dena Hes Mine Land Reclamation & Revegetation Plan: 2003 RevegetationTest Program

Figure 2: Test PlotLocations - Mine Access Road

Drawn By: JEA	Checked By: TR
Date: 03-29-2004	Project Number: COM-01

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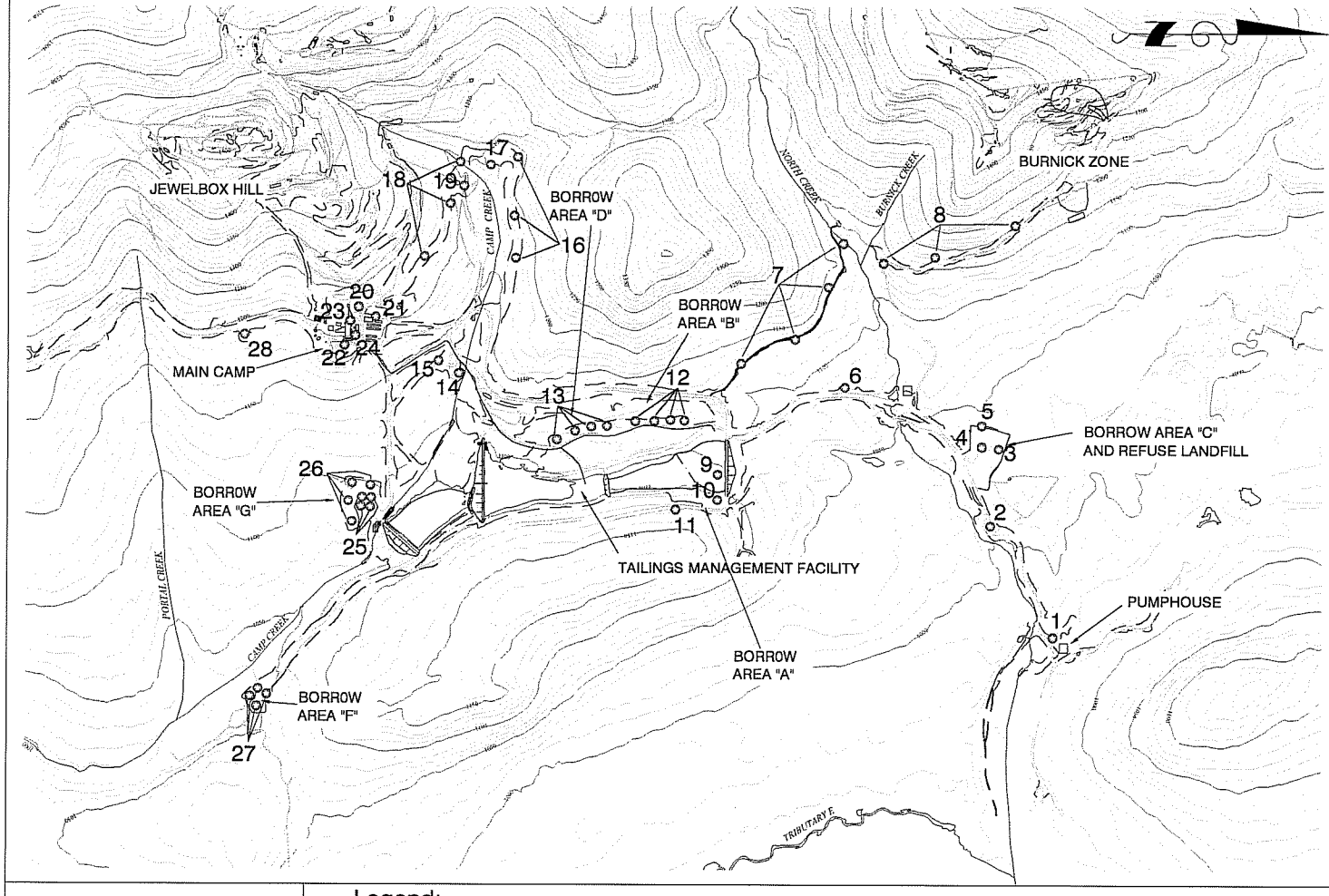
Teck Cominco Ltd. Sä Dena Hes Mine Land Reclamation & Revegetation Plan: 2003 Revegetation Test Program



Legend:

- Soil Sample Location (2000)
- Watercourse
- Road within cleared area
- Topography

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0 200 400 600 800 1000 metres

1:20 000

CONTOUR INTERVAL = 10m

NOTE

BASE TOPOGRAPHY FROM NORTH AMERICAN DATUM 1983
ALL SURFACE FACILITIES AND BOUNDARIES HAVE BEEN ADJUSTED FROM NAD 1927

Figure 3:
Test Plot Locations - Mine Site / Tailings Area

Drawn By: JEA	Checked By: TR
Project Number: COM-01	Date: 03-14-2004

ACCESS MINING CONSULTANTS LTD.

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3.0 PROJECT METHODS

As a result of the low vegetative cover observed on the test plots in the fall of 2002, it was decided to adjust the application rates of seed and fertilizer early in the 2003 season. The purpose of adjusting the seed and fertilizer application rates was to enhance test plot growth and determine what the baseline protocols would need to be to ensure a successful revegetation program at closure.

3.1 SEED AND FERTILIZER RATE ADJUSTMENT – JUNE 2003

The test plots were re-seeded on June 5, 2003. The seed mix was acquired from Arctic Alpine Seeds Ltd. in Whitehorse. This mix included three northern native grass species (violet wheatgrass, alpine bluegrass and ticklegrass) and a non-native legume (alfalfa). This seed mix was applied at each of the six test sites.

In response to concerns that the slower growing native grass species may not establish well on the harsher, wind-swept conditions of the Tailings Management Facility (TMF), two additional non-native species of grass were included in the seed mix at the TMF site with a 500 mm rock base (Test Site 5C).

An 18–18–18 (NPK) fertilizer was used at all six revegetation trial sites, with the application rate noted below.

Test site seed and fertilizer application rates and seed mixtures are presented in the following tables.

Test Site 1 Km 22 Main Access Road

Plot #	Seed Application Rate (kg/ha)	Fertilizer Application Rate (kg/ha)
1	25	120
2	50	180
3	75	240
4	----------	----------

Seed mix: 60% violet wheatgrass
25% alpine bluegrass
10% ticklegrass
5% alfalfa

Fertilizer: 18–18–18

Test Site 2 Jewel Box Haul Road near Treeline

Plot #	Seed Application Rate (kg/ha)	Fertilizer Application Rate (kg/ha)
1	25	120
2	50	180
3	75	240
4	----------	----------

Seed mix: 60% violet wheatgrass
25% alpine bluegrass
10% ticklegrass
5% alfalfa

Fertilizer: 18–18–18

Test Site 3 Adjacent to Landfill

Plot #	Seed Application Rate (kg/ha)	Fertilizer Application Rate (kg/ha)
1	25	120
2	50	180
3	75	240
4	----------	----------

Seed mix: 60% violet wheatgrass
25% alpine bluegrass
10% ticklegrass
5% alfalfa

Fertilizer: 18–18–18

Test Site 5A TMF with 200 mm Soil

Plot #	Seed Application Rate (kg/ha)	Fertilizer Application Rate (kg/ha)
1	25	120
2	50	180
3	75	240
4	----------	----------

Seed mix: 60% violet wheatgrass
25% alpine bluegrass
10% ticklegrass
5% alfalfa

Fertilizer: 18–18–18

Test Site 5B TMF with 300 mm Soil

Plot #	Seed Application Rate (kg/ha)	Fertilizer Application Rate (kg/ha)
1	25	120
2	50	180
3	75	240
4	----------	----------

Seed mix: 60% violet wheatgrass
25% alpine bluegrass
10% ticklegrass
5% alfalfa

Fertilizer: 18–18–18

Test Site 5C TMF with 500 mm Rock and 300 mm Soil

Plot #	Seed Application Rate (kg/ha)	Fertilizer Application Rate (kg/ha)
1	30	120
2	60	180
3	90	240
4	----------	----------

Seed mix: 50% violet wheatgrass
21% alpine bluegrass
11% red fescue
8% ticklegrass
6% Kentucky bluegrass
4% alfalfa

Fertilizer: 18–18–18

3.2 TEST PLOT OBSERVATIONS – SEPTEMBER 2003

The test plots were monitored on September 18, 2003. It was not possible to carry out an accurate estimation of the vegetative cover on each plot because of an early snowfall of about 10 cm. The grass species observed growing at each plot were noted. The results are presented in Section 4.0.

3.3 VEGETATION SAMPLING FOR METAL CONCENTRATIONS

Samples of grass tissue (violet wheatgrass, alpine/Kentucky bluegrass, ticklegrass and red fescue) were collected from several test plots for metal analysis. Ticklegrass was also collected east of the TMF as a control sample. The following samples were collected:

Km 22 Main Access Road	violet wheatgrass
Adjacent to Landfill	violet wheatgrass
Jewel Box Haul Road near Treeline	violet wheatgrass
TMF with 200 mm Soil	violet wheatgrass alpine bluegrass ticklegrass
TMF with 300 mm Soil	violet wheatgrass alpine bluegrass ticklegrass
TMF with 500 mm Rock and 300 mm Soil	violet wheatgrass alpine bluegrass and/or Kentucky bluegrass ticklegrass red fescue
Control Site (east of TMF)	ticklegrass

Approximately 20 grams of each plant (stem and leaves) were gathered with latex gloves and placed in Ziploc bags. The samples were kept cool and shipped via Air Canada cargo to Norwest Labs in Surrey, BC for analysis.

3.4 ADDITIONAL MONITORING – TAILINGS NORTH DAM REVEGETATION

In response to concerns that the vegetative cover of the north tailings dam may be inadequate, the plant species revegetating the downstream slope of the dam were examined and photographed.

4.0 2003 MONITORING RESULTS

Following are the results of the 2003 monitoring program.

4.1 SEED TEST PLOT MONITORING

As mentioned above, it was not possible to carry out an accurate estimation of the vegetative cover on each plot because of an early snowfall. Photographs of the test plots are provided in Appendix B. The grass species observed growing at each plot in September 2003 were as follows:

Km 22 Main Access Road

A dense growth was observed on plots 1, 2 and 3. Violet wheatgrass was the dominant grass species. Alpine bluegrass and a small amount of ticklegrass were visible. No alfalfa was observed.

Adjacent to Landfill

Plots 1, 2 and 3 all showed a dense growth of violet wheatgrass, alpine bluegrass and ticklegrass. A small quantity of tufted hairgrass from the previous seeding was also noted. No alfalfa was visible.

Jewel Box Haul Road near Treeline

A good cover of violet wheatgrass and ticklegrass was observed on plots 1, 2 and 3, with the densest growth on plot 2. A small amount of alpine bluegrass was also noted on each plot. No alfalfa was visible.

TMF with 200 mm Soil

A good cover of violet wheatgrass, alpine bluegrass and ticklegrass was observed on plots 1, 2 and 3, with the best growth on plot 1. No alfalfa was visible.

TMF with 300 mm Soil

A good cover of violet wheatgrass, alpine bluegrass and ticklegrass was observed on plots 1, 2 and 3, with the best growth on plot 1. No alfalfa was visible.

TMF with 500 mm Rock and 300 mm Soil

Plots 1, 2 and 3 had a good cover of violet wheatgrass, bluegrass (alpine bluegrass and/or Kentucky bluegrass), ticklegrass and red fescue. Some grass was observed growing on plot 4 (control plot), presumably a result of seeding by wind. No alfalfa was visible.

4.2 PLANT TISSUE METALS ANALYSIS

The plant tissue metal levels at the tailings test sites were generally higher than at the other test sites on the property, which is to be expected. The metal levels at site 5C (the tailings test plots with the 500 mm rock base) were the highest. The violet wheatgrass sample from this site had a particularly high aluminum level (838 ug/g compared to a low of 10.1 ug/g at the Jewel Box haul road site). Iron and lead levels were also highest at site 5C (717 ug/g and 10.6 ug/g, respectively, in violet wheatgrass). Antimony and arsenic were also detected at this site (6.1 ug/g and 32.8 ug/g, respectively, in violet wheatgrass).

Violet wheatgrass was sampled at all six test sites, although no off-site control samples of wheatgrass were available for background comparison.

No comparisons of this data have been made to similar plant types in other areas of Yukon or abroad. This assessment work can be completed later once a suitable database of on-site and off-site plant tissue metals concentrations is available. As such, no conclusions can be made at this time with respect to the significance of data collected to date, nor can any cogent assumptions be made regarding the ecological considerations of the revegetation test program, with respect to metal uptake in plants at the site. Notwithstanding this, Tables 1 and 2 have been included to provide a summary of the results for the metals analysis by species and site. The authors believe that some additional sampling of tissues and soils from the site and off-site

will have to be completed before an evaluation of results and conclusions can be made regarding which particular revegetation protocol/methodology is most suitable for revegetation, based on metal uptake characteristics. This additional sampling and evaluation is scheduled for completion during the test revegetation program exercises in 2004.

The laboratory results of the laboratory analysis for metals are shown in Appendix A.

4.3 TAILINGS NORTH DAM REVEGETATION

The vegetative cover of the north tailings impoundment dam remains sparse. On the downstream slope of the dam, vegetation was observed to be patchy near the crest, with a denser growth occurring towards the bottom. The vegetation visible through the snow included willows, balsam poplar, alfalfa, brome grass and wheatgrass.

5.0 RECOMMENDATIONS

The early snowfall made for less than ideal conditions for the revegetation test site monitoring in the fall of 2003. The percent vegetative cover on the plots could not be determined and low-growing first year plants could not be identified. No legumes, including the alfalfa seeded in 2003, were observed. It is recommended that the revegetation test plots be monitored again in 2004, preferably earlier in the growing season (late June to mid August).

A second metal analysis of the plant species seeded on the test plots should also be carried out in 2004, including individual samples of selected species from off-site.

Metals Uptake in Plant Tissue

Table 1 - Plant Itssue Metals Concentrations, Sorted by Species.

NWL Number		256787-1	256787-6	256787-9	256787-12	256787-3	256787-3	256787-4	256787-5	256787-8	256787-11	256787-7	256787-10	256787-13	256787-14
Species		Background Sample	Ticklegrass			Violet Wheatgrass						Bluegrass			Red Fescue
Site		Ticklegrass	5A	5B	5C	1	2	3	5A	5B	5C	5A	5B	5C	5C
Metals Strong Acid Extractable	**Units**														
Aluminum	ug/g	109	236	190	136	13	10.1	31.4	284	86.9	838	82	6	110	62.4
Antimony	ug/g	<2	<2	<2	<2	<2	<2	<2	<2	<2	6.1	<2	<2	<2	<2
Arsenic	ug/g	<2	8.2	<2	<2	<2	<2	<2	<2	<2	32.8	<2	<2	<2	<2
Barium	ug/g	1.99	11.7	9.26	16.2	28.8	17.2	22.6	12.5	14.5	20.3	21.4	0.787	23.7	17.9
Beryllium	ug/g	<0.06	<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
Bismuth	ug/g	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Cadmium	ug/g	0.14	0.11	0.082	0.16	0.15	0.46	0.38	0.31	0.17	0.13	<0.05	<0.05	<0.05	<0.05
Calcium	ug/g	1130	2160	2140	2610	922	1360	2110	2180	2600	2620	3600	127	3280	2680
Chromium	ug/g	1.53	2.26	1.85	1.33	2.3	2.02	1.42	4.95	4.34	5.64	1.72	0.2	0.92	0.8
Cobalt	ug/g	0.1	<0.1	0.2	0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.1	<0.1
Copper	ug/g	4.22	4.01	7.19	7.19	1.2	3.83	2.84	1.72	1.92	3.79	2.73	<0.1	3.18	2.62
Iron	ug/g	66.6	182	136	111	24.2	28.3	37.9	154	87.8	717	67.8	4.08	92.1	61.1
Lead	ug/g	1.4	3.8	1.6	3.6	<0.5	0.81	<0.5	1	1.1	10.6	1	0.6	2.7	2.2
Lithium	ug/g	<0.6	<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
Magnesium	ug/g	297	516	714	728	489	327	377	401	416	599	477	14.9	616	630
Manganese	ug/g	15.6	73.7	51.6	102	16.9	14.4	31.9	37.2	30.6	41	48.7	1.16	53.4	48.9
Molybdenum	ug/g	3.8	<1	<1	2	<1	1	1	<1	<1	<1	<1	<1	<1	<1
Nickel	ug/g	1.3	1.54	1.64	1.23	1.2	1.41	1.32	2.42	2.22	2.97	1.52	0.3	1.23	1.31
Phosphorus	ug/g	263	1240	1470	2070	708	1290	1470	1390	1390	2040	1570	63.7	1830	1870
Potassium	ug/g	3450	9040	11500	12700	5610	9320	11600	11000	10700	15400	8110	378	9390	9440
Selenium	ug/g	<5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silicon	ug/g	95.9	352	464	<5	83.8	170	195	311	270	44	55.7	333	76	180
Silver	ug/g	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	ug/g	36	38	59.5	27	7	10	9.1	93.9	24	66.6	16	<5	10	15
Strontium	ug/g	3.6	8.54	8.21	10.5	1.6	4.8	7.61	7.68	8.99	10.3	18.6	0.8	16.1	13.2
Sulphur	ug/g	332	658	770	1020	439	746	811	677	758	1400	880	40	862	885
Thorium	ug/g	<0.6	<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
Tin	ug/g	<0.6	<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
Titanium	ug/g	3.45	4.53	4.11	2.26	1	0.5	2.13	24.1	2.12	14.6	1.52	0.3	2.16	2.11
Uranium	ug/g	<8	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Vanadium	ug/g	0.38	0.51	0.51	0.31	0.1	0.2	0.3	0.71	0.3	1.33	0.2	<0.1	0.2	0.3
Zinc	ug/g	12.9	15.3	12.8	21.1	7.8	33.3	17.7	10.2	10	19.2	16.7	0.528	17.8	16.1
Zirconium	ug/g	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	<0.5	<0.5	<0.5	<0.5
Physical and Aggregate Properties															
Moisture	Wet Weight %	74.5	70.4	56.5	71.9	51.2	58.9	68.9	56	57.4	56.9	66.9	68.3	69.9	68.5
Moisture	Dry Weight %	293	238	130	256	105	143	222	127	135	132	202	215	232	218

Metals Uptake in Plant Tissue

Table 2 - Plant Tissue Metals Concentrations, Sorted by Site Loc

NWL Number		256787-1	256787-3	256787-3	256787-4	256787-5	256787-6	256787-7	256787-8	256787-9	256787-10	256787-11	256787-12	256787-13	256787-14
Site Description		**Background Sample**	**Site 1**	**Site 2**	**Site 3**	**Site 5A**			**Site 5B**			**Site 5C**			
		Species	Species	Species	Species	Species			Species			Species			
Metals Strong Acid Extractable	Units	Ticklegrass	Violet Wheatgrass	Violet Wheatgrass	Violet Wheatgrass	Violet Wheatgrass	Ticklegrass	Bluegrass	Violet Wheatgrass	Ticklegrass	Bluegrass	Violet Wheatgrass	Ticklegrass	Bluegrass	Red Fescue
Aluminum	ug/g	109	13	10.1	31.4	284	236	82	86.9	190	6	838	136	110	62.4
Antimony	ug/g	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	6.1	<2	<2	<2
Arsenic	ug/g	<2	<2	<2	<2	<2	8.2	<2	<2	<2	<2	32.8	<2	<2	<2
Barium	ug/g	1.99	28.8	17.2	22.6	12.5	11.7	21.4	14.5	9.26	0.787	20.3	16.2	23.7	17.9
Beryllium	ug/g	<0.06	<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
Bismuth	ug/g	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Cadmium	ug/g	0.14	0.15	0.46	0.38	0.31	0.11	<0.05	0.17	0.082	<0.05	0.13	0.16	<0.05	<0.05
Calcium	ug/g	1130	922	1360	2110	2180	2160	3600	2600	2140	127	2620	2610	3280	2680
Chromium	ug/g	1.53	2.3	2.02	1.42	4.95	2.26	1.72	4.34	1.85	0.2	5.64	1.33	0.92	0.8
Cobalt	ug/g	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.2	0.1	0.1	<0.1
Copper	ug/g	4.22	1.2	3.83	2.84	1.72	4.01	2.73	1.92	7.19	<0.1	3.79	7.19	3.18	2.62
Iron	ug/g	66.6	24.2	28.3	37.9	154	182	67.8	87.8	136	4.08	717	111	92.1	61.1
Lead	ug/g	1.4	<0.5	0.81	<0.5	1	3.8	1	1.1	1.6	0.6	10.6	3.6	2.7	2.2
Lithium	ug/g	<0.6	<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
Magnesium	ug/g	297	489	327	377	401	516	477	416	714	14.9	599	728	616	630
Manganese	ug/g	15.6	16.9	14.4	31.9	37.2	73.7	48.7	30.6	51.6	1.16	41	102	53.4	48.9
Molybdenum	ug/g	3.8	<1	1	1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
Nickel	ug/g	1.3	1.2	1.41	1.32	2.42	1.54	1.52	2.22	1.64	0.3	2.97	1.23	1.23	1.31
Phosphorus	ug/g	263	708	1290	1470	1390	1240	1570	1390	1470	63.7	2040	2070	1830	1870
Potassium	ug/g	3450	5610	9320	11600	11000	9040	8110	10700	11500	378	15400	12700	9390	9440
Selenium	ug/g	<5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silicon	ug/g	95.9	83.8	170	195	311	352	55.7	270	464	333	44	<5	76	180
Silver	ug/g	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	ug/g	36	7	10	9.1	93.9	38	16	24	59.5	<5	66.6	27	10	15
Strontium	ug/g	3.6	1.6	4.8	7.61	7.68	8.54	18.6	8.99	8.21	0.8	10.3	10.5	16.1	13.2
Sulphur	ug/g	332	439	746	811	677	658	880	758	770	40	1400	1020	862	885
Thorium	ug/g	<0.6	<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
Tin	ug/g	<0.6	<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
Titanium	ug/g	3.45	1	0.5	2.13	24.1	4.53	1.52	2.12	4.11	0.3	14.6	2.26	2.16	2.11
Uranium	ug/g	<8	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Vanadium	ug/g	0.38	0.1	0.2	0.3	0.71	0.51	0.2	0.3	0.51	<0.1	1.33	0.31	0.2	0.3
Zinc	ug/g	12.9	7.8	33.3	17.7	10.2	15.3	16.7	10	12.8	0.528	19.2	21.1	17.8	16.1
Zirconium	ug/g	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	<0.5	<0.5	<0.5
Physical and Aggregate Properties															
Moisture	Wet Weight %	74.5	51.2	58.9	68.9	56	70.4	66.9	57.4	56.5	68.3	56.9	71.9	69.9	68.5
Moisture	Dry Weight %	293	105	143	222	127	238	202	135	130	215	132	256	232	218

6.0 REFERENCES

Access Mining Consultants Ltd. 2003. *Results Summary of Sä Dena Hes Mine Phase II Revegetation Test Program - 2002.* Prepared for TeckCominco Ltd.

Access Mining Consultants Ltd. 2002. *Results Summary of Sä Dena Hes Mine Phase II Revegetation Test Program - 2001.* Prepared for TeckCominco Ltd.

Access Mining Consultants Ltd. 2001. *Land Reclamation and Revegetation Plan Preliminary Test Program Summary Report - 2000.* Prepared for Cominco Ltd.

Cominco Ltd. 2000. *Sä Dena Hes Mine Detailed Decommissioning and Reclamation Plan.* Prepared by Access Mining Consultants Ltd. and SRK Ltd.

teckcominco

Sä Dena Hes Mine

Land Reclamation and Revegetation Plan

Results Summary of

Phase II Revegetation Test Program - 2003

Appendix A

Laboratory Results of

Plant Metal Tissue Analysis

NORWEST LABS

Quote

Print date: Sep 22, 2003

Access Mining Consultants Ltd. **Attn: Travis Ritchie** 204D Strickland Street Whitehorse, YT Canada Y1A 2J8	Phone: (867) 668-6463 Fax: (867) 667-6680 Cell: E-mail: travis@accessconsulting.ca **PO #:** **Project ID:** **Project name:**	**Agreement ID:** **15180** **Quote Name:** **Metals in Tissue** Negotiate date: May 03, 2002 Expires: Dec 31, 2003 **Representative:** **Marla Price** Surrey, BC

Sample Name	Service	Service Requested	QTY	Quoted Price	Total
Metals/Tissue	17	Preparation - Grind / Blend / Mix	1	$ 5.10	$ 5.10
	51T	Preparation - Moisture @ 55C dry	1	$ 7.70	$ 7.70
	51TW	Preparation - Moisture @ 55C wet	1	$ 7.70	$ 7.70
	DISP	Disposal of Soil/Water Sample	1	$ 1.25	$ 1.25
	ST33	Metals semi trace in solids	1	$ 63.00	$ 63.00
					$ 84.75
				Total	**$84.75**

Quote name and client name must be indicated on all information sheets submitted with samples.
Payment due within 60 days from the date of original invoice.
Prices quoted in Canadian dollars and do not include GST.
Our liability is limited to the cost of the analyses.

Norwest Labs Edmonton: 7217 Roper Road Edmonton, AB T6B 3J4 Tel: (780) 438-5522 Fax: (780) 438-0396
Norwest Labs Calgary: Bay 6 2712-37 Avenue N.E. Calgary, AB T1Y-5L3 Tel: (403) 291-2022 Fax: (403) 291-2021
Norwest Labs Surrey: #104 19575-55 A Ave. Surrey, BC V3S 8P8 Tel: (604) 514-3322 Fax: (604) 514-3323
Norwest Labs Lethbridge: 3131-1 Avenue South Lethbridge, AB T1J-4H1 Tel: (403) 329-9266 Fax: (403) 327-8527
Norwest Labs Winnipeg: 1357 Dugald Road Winnipeg, MB R2J 0H3 Tel: (204) 982-8630 Fax: (204) 275-6019

Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
eport to: Access Mining Consultants Ltd.
204D Strickland Street
Whitehorse, YT, Canada
Y1A 2J8
Attn: Travis Ritchie
Sampled By:
Company:

Project ID:
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

Copies	Contact	Company		Address				
0	Jason Adams	Access Mining Consultants Ltd.		204D Strickland Street	Fax		Post	
				Whitehorse, YT	Email		Pickup	
				Y1A 2J8	Custom Email		Courier	
			Phone:	(867) 668-6463	Web	x	Hand	
			Fax:	(867) 667-6680	Email Notification			
			Email:	jason@accessconsulting.ca				
1	Travis Ritchie	Access Mining Consultants Ltd.		204D Strickland Street	Fax		Post	x
				Whitehorse, YT	Email		Pickup	
				Y1A 2J8	Custom Email		Courier	
			Phone:	(867) 668-6463	Web	x	Hand	
			Fax:	(867) 667-6680	Email Notification	x		
			Email:	travis@accessconsulting.ca				

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients

Agreement Notes

Lot Notes

Sample Notes:

Reports associated with this Lot

Id/Format/Reported Date	Id/Format/Reported Date	Id/Format/Reported Date
449298 Envir2 3 Smp & DL		

Comment:
See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.

NORWEST LABS

Sample Custody

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.

204D Strickland Street
Whitehorse, YT, Canada
Y1A 2J8
Attn: Travis Ritchie
Sampled By:
Company:

Project ID:
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

Sample Disposal Date: Oct 29, 2003

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

_____ **Extend Sample Storage Until** _____ **(MM/DD/YY)**

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	$ 10.00
Storage for 6 to 20 samples per month	$ 15.00
Storage for 21 to 50 samples per month	$ 30.00
Storage for 51 to 200 samples per month	$ 60.00
Storage for more than 200 samples per month	$ 110.00

_____ **Return Sample, collect, to the address below via:**

_____ Greyhound
_____ Loomis
_____ Purolator
_____ Other (Specify) _____

Name: _____
Company: _____
Address: _____
_____
Phone: _____
Fax: _____
Signature: _____

If no other arrangements have been made, samples will be disposed of on Oct 29, 2003.

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Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Analytical Report

Bill to: Access Mining Consultants Ltd.
eport to: Access Mining Consultants Ltd.
204D Strickland Street
Whitehorse, YT, Canada
Y1A 2J8
Attn: Travis Ritchie
Sampled By:
Company:

Project ID:
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

	NWL Number	256787-1	256787-2	256787-3	
	Sample Date				
	Sample Description	Background Sample Ticklegrass	Site 1 Violet Wheatgrass	Site 2 Violet Wheatgrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte		**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Metals Strong Acid Extractable						
Aluminum	Strong Acid Extractable	ug/g	109	13.0	10.1	1
Antimony	Strong Acid Extractable	ug/g	<2	<2	<2	2
Arsenic	Strong Acid Extractable	ug/g	<2	<2	<2	2
Barium	Strong Acid Extractable	ug/g	1.99	28.8	17.2	0.05
Beryllium	Strong Acid Extractable	ug/g	<0.06	<0.05	<0.05	0.05
Bismuth	Strong Acid Extractable	ug/g	<2	<2	<2	2
Cadmium	Strong Acid Extractable	ug/g	0.14	0.15	0.46	0.05
Calcium	Strong Acid Extractable	ug/g	1130	922	1360	1
Chromium	Strong Acid Extractable	ug/g	1.53	2.30	2.02	0.1
Cobalt	Strong Acid Extractable	ug/g	0.1	0.20	<0.1	0.1
Copper	Strong Acid Extractable	ug/g	4.22	1.20	3.83	0.1
Iron	Strong Acid Extractable	ug/g	66.6	24.2	28.3	0.2
Lead	Strong Acid Extractable	ug/g	1.4	<0.5	0.81	0.5
Lithium	Strong Acid Extractable	ug/g	<0.6	<0.5	<0.5	0.5
Magnesium	Strong Acid Extractable	ug/g	297	489	327	1
Manganese	Strong Acid Extractable	ug/g	15.6	16.9	14.4	0.05
Molybdenum	Strong Acid Extractable	ug/g	3.8	<1	1.0	1
Nickel	Strong Acid Extractable	ug/g	1.3	1.20	1.41	0.1
Phosphorus	Strong Acid Extractable	ug/g	263	708	1290	5
Potassium	Strong Acid Extractable	ug/g	3450	5610	9320	30
Selenium	Strong Acid Extractable	ug/g	<5	<4	<4	4
Silicon	Strong Acid Extractable	ug/g	95.9	83.8	170	5
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	36	7.0	10	5
Strontium	Strong Acid Extractable	ug/g	3.6	1.6	4.8	0.5
Sulphur	Strong Acid Extractable	ug/g	332	439	746	20
Thorium	Strong Acid Extractable	ug/g	<0.6	<0.5	<0.5	0.5
Tin	Strong Acid Extractable	ug/g	<0.6	<0.5	<0.5	0.5
Titanium	Strong Acid Extractable	ug/g	3.45	1.0	0.50	0.1
Uranium	Strong Acid Extractable	ug/g	<8	<6	<6	6
Vanadium	Strong Acid Extractable	ug/g	0.38	0.1	0.20	0.1
Zinc	Strong Acid Extractable	ug/g	12.9	7.80	33.3	0.05
Zirconium	Strong Acid Extractable	ug/g	<0.6	<0.5	<0.5	0.5
Physical and Aggregate Properties						

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Bill to: Access Mining Consultants Ltd.
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204D Strickland Street
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Y1A 2J8
Attn: Travis Ritchie
Sampled By:
Company:

Project ID:
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

	NWL Number	256787-1	256787-2	256787-3	
	Sample Date				
	Sample Description	Background Sample Ticklegrass	Site 1 Violet Wheatgrass	Site 2 Violet Wheatgrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte		**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Physical and Aggregate Properties - Continued						
Moisture	Wet Weight	%	74.5	51.2	58.9	0.1
Moisture	Dry Weight	%	293	105	143	

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Y1A 2J8
Attn: Travis Ritchie
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Company:

Project ID:
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

	NWL Number	256787-4	256787-5	256787-6	
	Sample Date				
	Sample Description	Site 3 Violet Wheatgrass	Site 5A Violet Wheatgrass	Site 5A Ticklegrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte	**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Metals Strong Acid Extractable					
Aluminum Strong Acid Extractable	ug/g	31.4	284	236	1
Antimony Strong Acid Extractable	ug/g	<2	<2	<2	2
Arsenic Strong Acid Extractable	ug/g	<2	<2	8.2	2
Barium Strong Acid Extractable	ug/g	22.6	12.5	11.7	0.05
Beryllium Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Bismuth Strong Acid Extractable	ug/g	<2	<2	<2	2
Cadmium Strong Acid Extractable	ug/g	0.38	0.31	0.11	0.05
Calcium Strong Acid Extractable	ug/g	2110	2180	2160	1
Chromium Strong Acid Extractable	ug/g	1.42	4.95	2.26	0.1
Cobalt Strong Acid Extractable	ug/g	<0.1	<0.1	<0.1	0.1
Copper Strong Acid Extractable	ug/g	2.84	1.72	4.01	0.1
Iron Strong Acid Extractable	ug/g	37.9	154	182	0.2
Lead Strong Acid Extractable	ug/g	<0.5	1.0	3.8	0.5
Lithium Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Magnesium Strong Acid Extractable	ug/g	377	401	516	1
Manganese Strong Acid Extractable	ug/g	31.9	37.2	73.7	0.05
Molybdenum Strong Acid Extractable	ug/g	1.0	<1	<1	1
Nickel Strong Acid Extractable	ug/g	1.32	2.42	1.54	0.1
Phosphorus Strong Acid Extractable	ug/g	1470	1390	1240	5
Potassium Strong Acid Extractable	ug/g	11600	11000	9040	30
Selenium Strong Acid Extractable	ug/g	<4	<4	<4	4
Silicon Strong Acid Extractable	ug/g	195	311	352	5
Silver Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium Strong Acid Extractable	ug/g	9.1	93.9	38	5
Strontium Strong Acid Extractable	ug/g	7.61	7.68	8.54	0.5
Sulphur Strong Acid Extractable	ug/g	811	677	658	20
Thorium Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Tin Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Titanium Strong Acid Extractable	ug/g	2.13	24.1	4.53	0.1
Uranium Strong Acid Extractable	ug/g	<6	<6	<6	6
Vanadium Strong Acid Extractable	ug/g	0.30	0.71	0.51	0.1
Zinc Strong Acid Extractable	ug/g	17.7	10.2	15.3	0.05
Zirconium Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Physical and Aggregate Properties					

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Name:
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LSD:
P.O.:
Acct. Code:

NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

	NWL Number	256787-4	256787-5	256787-6	
	Sample Date				
	Sample Description	Site 3 Violet Wheatgrass	Site 5A Violet Wheatgrass	Site 5A Ticklegrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte	**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Physical and Aggregate Properties - Continued					
Moisture Wet Weight	%	68.9	56.0	70.4	0.1
Moisture Dry Weight	%	222	127	238	

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Bill to: Access Mining Consultants Ltd.
eport to: Access Mining Consultants Ltd.
204D Strickland Street
Whitehorse, YT, Canada
Y1A 2J8
Attn: Travis Ritchie
Sampled By:
Company:

Project ID:
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

	NWL Number	256787-7	256787-8	256787-9	
	Sample Date				
	Sample Description	Site 5A Bluegrass	Site 5B Violet Wheatgrass	Site 5B Ticklegrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte	**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Metals Strong Acid Extractable					
Aluminum Strong Acid Extractable	ug/g	82.0	86.9	190	1
Antimony Strong Acid Extractable	ug/g	<2	<2	<2	2
Arsenic Strong Acid Extractable	ug/g	<2	<2	<2	2
Barium Strong Acid Extractable	ug/g	21.4	14.5	9.26	0.05
Beryllium Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Bismuth Strong Acid Extractable	ug/g	<2	<2	<2	2
Cadmium Strong Acid Extractable	ug/g	<0.05	0.17	0.082	0.05
Calcium Strong Acid Extractable	ug/g	3600	2600	2140	1
Chromium Strong Acid Extractable	ug/g	1.72	4.34	1.85	0.1
Cobalt Strong Acid Extractable	ug/g	<0.1	<0.1	0.20	0.1
Copper Strong Acid Extractable	ug/g	2.73	1.92	7.19	0.1
Iron Strong Acid Extractable	ug/g	67.8	87.8	136	0.2
Lead Strong Acid Extractable	ug/g	1.0	1.1	1.6	0.5
Lithium Strong Acid Extractable	ug/g	<0.5	0.50	<0.5	0.5
Magnesium Strong Acid Extractable	ug/g	477	416	714	1
Manganese Strong Acid Extractable	ug/g	48.7	30.6	51.6	0.05
Molybdenum Strong Acid Extractable	ug/g	<1	<1	<1	1
Nickel Strong Acid Extractable	ug/g	1.52	2.22	1.64	0.1
Phosphorus Strong Acid Extractable	ug/g	1570	1390	1470	5
Potassium Strong Acid Extractable	ug/g	8110	10700	11500	30
Selenium Strong Acid Extractable	ug/g	<4	<4	<4	4
Silicon Strong Acid Extractable	ug/g	55.7	270	464	5
Silver Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium Strong Acid Extractable	ug/g	16	24	59.5	5
Strontium Strong Acid Extractable	ug/g	18.6	8.99	8.21	0.5
Sulphur Strong Acid Extractable	ug/g	880	758	770	20
Thorium Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Tin Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Titanium Strong Acid Extractable	ug/g	1.52	2.12	4.11	0.1
Uranium Strong Acid Extractable	ug/g	<6	<6	<6	6
Vanadium Strong Acid Extractable	ug/g	0.20	0.30	0.51	0.1
Zinc Strong Acid Extractable	ug/g	16.7	10.0	12.8	0.05
Zirconium Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Physical and Aggregate Properties					

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	NWL Number	256787-7	256787-8	256787-9	
	Sample Date				
	Sample Description	Site 5A Bluegrass	Site 5B Violet Wheatgrass	Site 5B Ticklegrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte		**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Physical and Aggregate Properties - Continued						
Moisture	Wet Weight	%	66.9	57.4	56.5	0.1
Moisture	Dry Weight	%	202	135	130	

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NWL Lot ID: 256787
Control Number: none
Date Received: Sep 22, 2003
Date Reported: Sep 29, 2003
Report Number: 449298

	NWL Number	256787-10	256787-11	256787-12	
	Sample Date				
	Sample Description	Site 5B Bluegrass	Site 5C Violet Wheatgrass	Site 5C Ticklegrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte	**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Metals Strong Acid Extractable					
Aluminum Strong Acid Extractable	ug/g	6.0	838	136	1
Antimony Strong Acid Extractable	ug/g	<2	6.1	<2	2
Arsenic Strong Acid Extractable	ug/g	<2	32.8	<2	2
Barium Strong Acid Extractable	ug/g	0.787	20.3	16.2	0.05
Beryllium Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Bismuth Strong Acid Extractable	ug/g	<2	<2	<2	2
Cadmium Strong Acid Extractable	ug/g	<0.05	0.13	0.16	0.05
Calcium Strong Acid Extractable	ug/g	127	2620	2610	1
Chromium Strong Acid Extractable	ug/g	0.20	5.64	1.33	0.1
Cobalt Strong Acid Extractable	ug/g	<0.1	0.20	0.1	0.1
Copper Strong Acid Extractable	ug/g	<0.1	3.79	7.19	0.1
Iron Strong Acid Extractable	ug/g	4.08	717	111	0.2
Lead Strong Acid Extractable	ug/g	0.60	10.6	3.6	0.5
Lithium Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Magnesium Strong Acid Extractable	ug/g	14.9	599	728	1
Manganese Strong Acid Extractable	ug/g	1.16	41.0	102	0.05
Molybdenum Strong Acid Extractable	ug/g	<1	<1	2.0	1
Nickel Strong Acid Extractable	ug/g	0.30	2.97	1.23	0.1
Phosphorus Strong Acid Extractable	ug/g	63.7	2040	2070	5
Potassium Strong Acid Extractable	ug/g	378	15400	12700	30
Selenium Strong Acid Extractable	ug/g	<4	<4	<4	4
Silicon Strong Acid Extractable	ug/g	333	44	<5	5
Silver Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium Strong Acid Extractable	ug/g	<5	66.6	27	5
Strontium Strong Acid Extractable	ug/g	0.80	10.3	10.5	0.5
Sulphur Strong Acid Extractable	ug/g	40	1400	1020	20
Thorium Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Tin Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Titanium Strong Acid Extractable	ug/g	0.30	14.6	2.26	0.1
Uranium Strong Acid Extractable	ug/g	<6	<6	<6	6
Vanadium Strong Acid Extractable	ug/g	<0.1	1.33	0.31	0.1
Zinc Strong Acid Extractable	ug/g	0.528	19.2	21.1	0.05
Zirconium Strong Acid Extractable	ug/g	<0.5	0.72	<0.5	0.5
Physical and Aggregate Properties					

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Control Number: none
Date Received: Sep 22, 2003
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Report Number: 449298

	NWL Number	256787-10	256787-11	256787-12	
	Sample Date				
	Sample Description	Site 5B Bluegrass	Site 5C Violet Wheatgrass	Site 5C Ticklegrass	
	Matrix	Tissue	Tissue	Tissue	
Analyte		**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Physical and Aggregate Properties - Continued						
Moisture	Wet Weight	%	68.3	56.9	71.9	0.1
Moisture	Dry Weight	%	215	132	256	

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NWL Lot ID: 256787
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	NWL Number	256787-13	256787-14		
	Sample Date				
	Sample Description	Site 5C Bluegrass	Site 5C Red Fescue		
	Matrix	Tissue	Tissue		
Analyte		**Units**	**Results**	**Results**	**Results**	**Detection Limit**
Metals Strong Acid Extractable						
Aluminum	Strong Acid Extractable	ug/g	110	62.4		1
Antimony	Strong Acid Extractable	ug/g	<2	<2		2
Arsenic	Strong Acid Extractable	ug/g	<2	<2		2
Barium	Strong Acid Extractable	ug/g	23.7	17.9		0.05
Beryllium	Strong Acid Extractable	ug/g	<0.05	<0.05		0.05
Bismuth	Strong Acid Extractable	ug/g	<2	<2		2
Cadmium	Strong Acid Extractable	ug/g	<0.05	<0.05		0.05
Calcium	Strong Acid Extractable	ug/g	3280	2680		1
Chromium	Strong Acid Extractable	ug/g	0.92	0.80		0.1
Cobalt	Strong Acid Extractable	ug/g	0.1	<0.1		0.1
Copper	Strong Acid Extractable	ug/g	3.18	2.62		0.1
Iron	Strong Acid Extractable	ug/g	92.1	61.1		0.2
Lead	Strong Acid Extractable	ug/g	2.7	2.2		0.5
Lithium	Strong Acid Extractable	ug/g	<0.5	<0.5		0.5
Magnesium	Strong Acid Extractable	ug/g	616	630		1
Manganese	Strong Acid Extractable	ug/g	53.4	48.9		0.05
Molybdenum	Strong Acid Extractable	ug/g	<1	<1		1
Nickel	Strong Acid Extractable	ug/g	1.23	1.31		0.1
Phosphorus	Strong Acid Extractable	ug/g	1830	1870		5
Potassium	Strong Acid Extractable	ug/g	9390	9440		30
Selenium	Strong Acid Extractable	ug/g	<4	<4		4
Silicon	Strong Acid Extractable	ug/g	76.0	180		5
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2		0.2
Sodium	Strong Acid Extractable	ug/g	10	15		5
Strontium	Strong Acid Extractable	ug/g	16.1	13.2		0.5
Sulphur	Strong Acid Extractable	ug/g	862	885		20
Thorium	Strong Acid Extractable	ug/g	<0.5	<0.5		0.5
Tin	Strong Acid Extractable	ug/g	<0.5	<0.5		0.5
Titanium	Strong Acid Extractable	ug/g	2.16	2.11		0.1
Uranium	Strong Acid Extractable	ug/g	<6	<6		6
Vanadium	Strong Acid Extractable	ug/g	0.20	0.30		0.1
Zinc	Strong Acid Extractable	ug/g	17.8	16.1		0.05
Zirconium	Strong Acid Extractable	ug/g	<0.5	<0.5		0.5
Physical and Aggregate Properties						
Moisture	Wet Weight	%	68.5	69.9		0.1

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			NWL Number	256787-13	256787-14		
			Sample Date				
			Sample Description	Site 5C Bluegrass	Site 5C Red Fescue		
			Matrix	Tissue	Tissue		
Analyte		**Units**		**Results**	**Results**	**Results**	**Detection Limit**
Physical and Aggregate Properties - Continued							
Moisture	Dry Weight	%		218	232		

Approved by: Bill Warning, B.Sc.
Lab Operations Manager

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Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Metals SemiTrace (Strong Acid Leachable) in solids	US EPA	Metals & Trace Elements by Ultrasonic Nebulization ICP-AES, 200.15	29-Sep-03	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

US EPA — US Environmental Protection Agency Test Methods

Comments:

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

teckcominco

Sä Dena Hes Mine

Land Reclamation and Revegetation Plan

Results Summary of

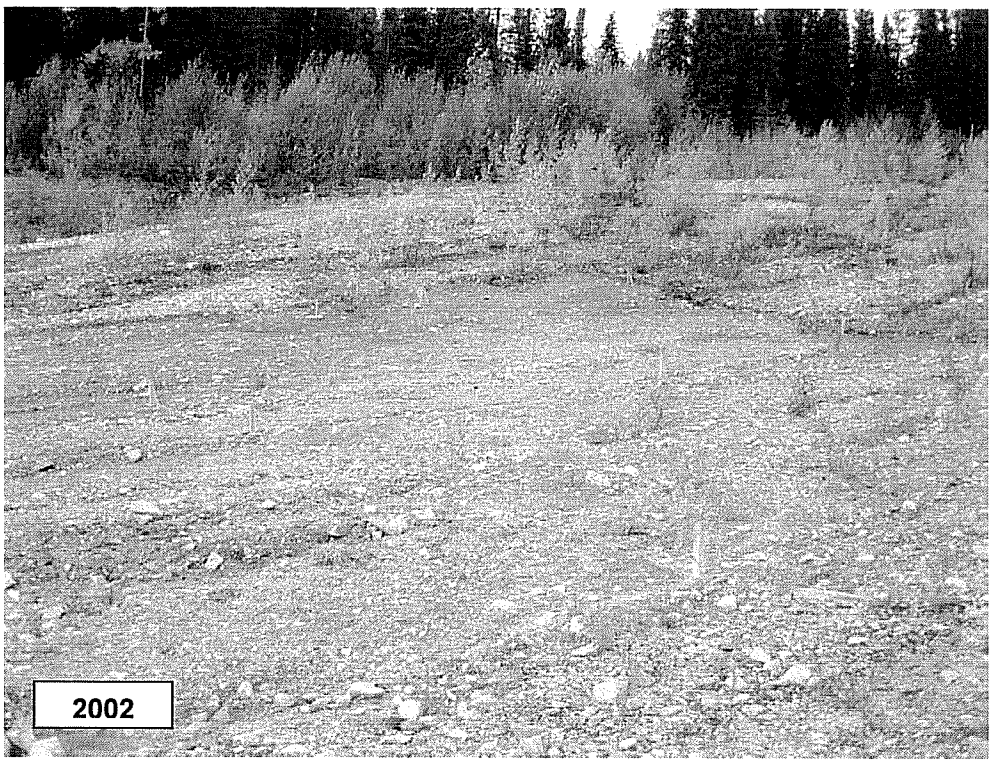
Phase II Revegetation Test Program - 2003

Appendix B

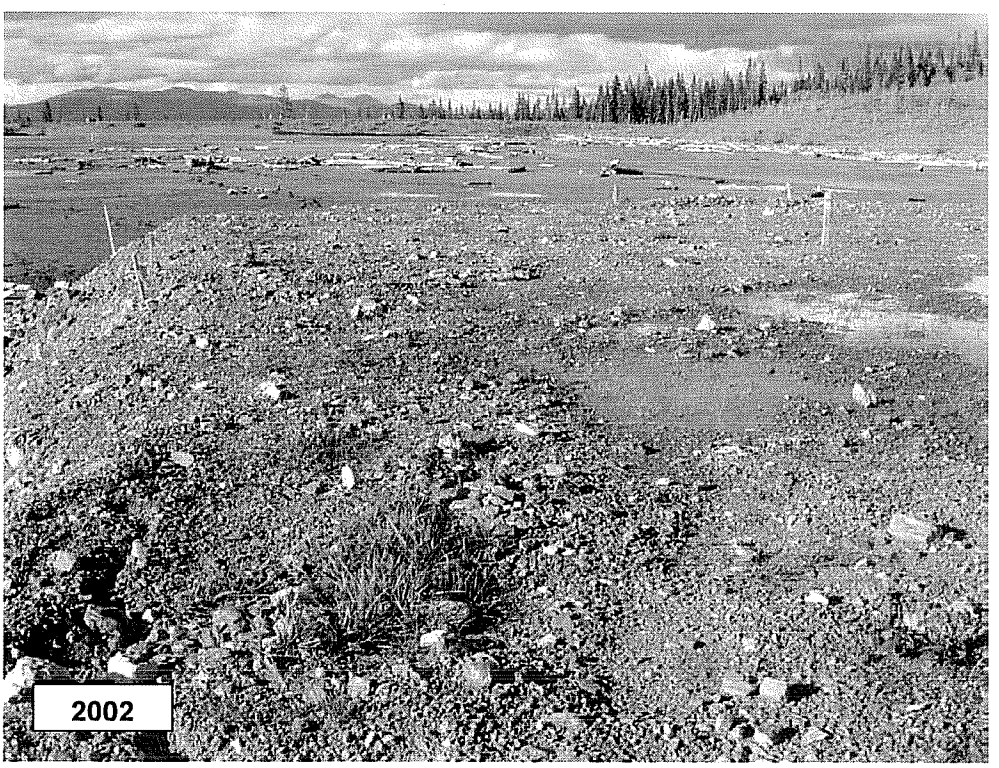
2003 Revegetation

Test Program Photos

Km 22 Main Access Road

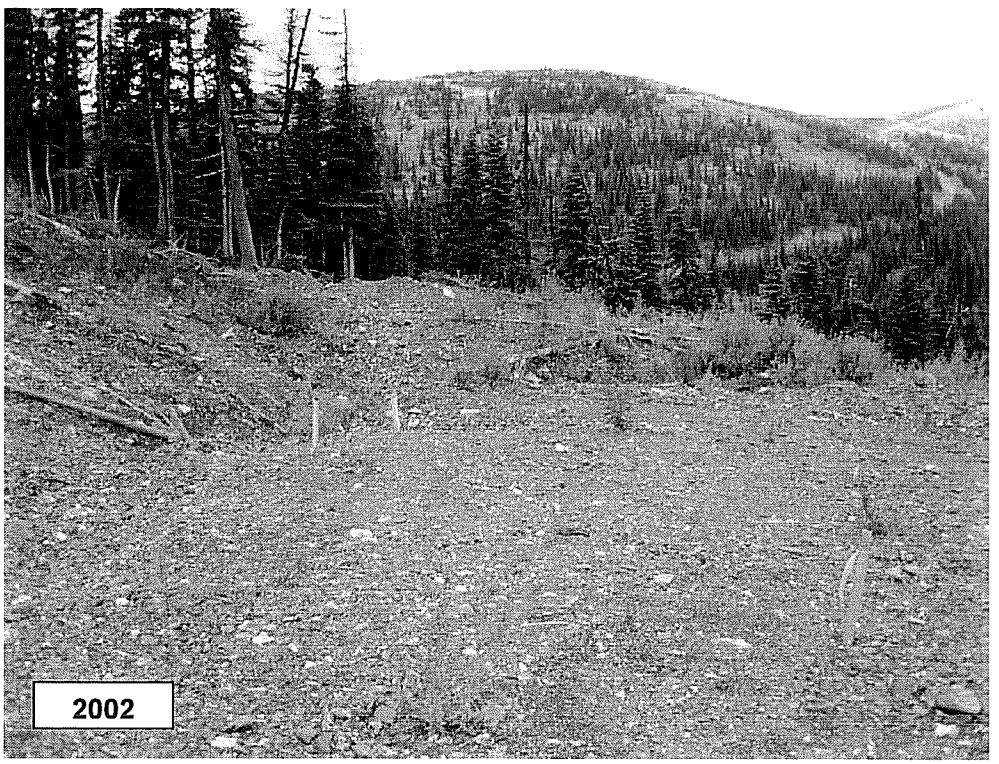


TMF with 500 mm rock and 300 mm soil

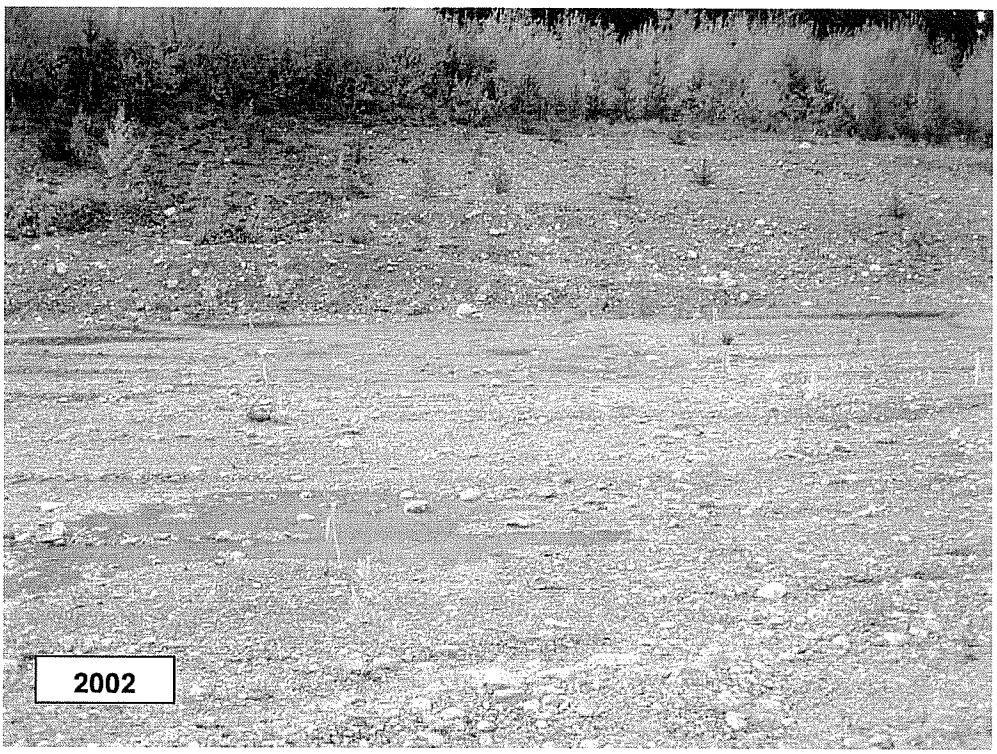


TMF with 300/200 mm soil

Jewel Box Haul Road



Site C - Landfill



APPENDIX B

LISTING OF

2003 WILDLIFE SIGHTINGS

AT THE MINE SITE

SA DENA HES MINE SITE - WILDLIFE SIGHTINGS - 2003

BLACK BEAR

12-May-03	1	Km 3 of mine road.
26-Jun-03	1	Km 0.5 of mine road.
18-Jul-03	1	Km 15 of mine road.
21-Jul-03	1	Main gate
30-Jul-03	1	Reclaim road
19-Aug-03	1	Main gate
20-Aug-03	1	Burnick Road
03-Sep-03	1	Main gate
06-Sep-03	1	Reclaim Pond. Aggressive
18-Sep-03	1	At the propane tank
19-Sep-03	2	Tailings area
20-Sep-03	1	At rear trailer door

MOOSE

03-Jan-03	1	Km 11 of mine road. No antlers
06-Jan-03	1	Km 10 of mine road. Had antlers
27-Jan-03	1	Junction
03-Feb-03	1	Km 3 of mine road.
21-Feb-03	1	Km 10 of mine road.
21-Jul-03	1	Km 11 of mine road.
05-Sep-03	2	Cows at tailings pond. One of the cows bigger than most bulls
08-Sep-03	2	Cow & Calf at tailings pond
10-Sep-03	3	Cows at tailings pond. One of the cows bigger than most bulls
13-Sep-03	2	Cow & Calf at tailings area
15-Sep-03	3	Cow & 2 Calves at tailings pond
15-Sep-03	2	Cow & Calf at reclaim pond
26-Sep-03	1	Km 20 of mine road. Bull Moose.
22-Dec-03	2	Km 19 of mine road.

WOLF

28-Feb-03	1	Km 5 of mine road