



**Sä Dena Hes Mine
2006 Annual Report
Yukon Production Licence QML - 0004**



Prepared by
Bruce Donald
March 2007

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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 2006. 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 2006.

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
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3.0 FORECAST MINE LIFE

Expected mine life is approximately 4 years based on current resources. The Mineral Resources have not been updated recently and are as follows (Appendix A – Memorandum from Paul Bankes, Director Reserve Evaluations to Bruce Donald, Re: Sä Dena Hes Resources March 12, 2007):

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 2006.

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 since.

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

In January 2006 an updated Mine Reclamation Plan was submitted as required. As part of the plan review by Teck Cominco, reclamation costs were increased primarily due to inflation. It is anticipated that reclamation security will be increased in 2007 once new reclamation security legislation is in place.

The Ministry of Energy and Mines reviewed updated geochemical information presented in the report and requested additional information regarding the long term fate of zinc in the water discharging from the 1380 Portal. The concern is that when attenuation of the waste rock on the hillside below the portal is exhausted that zinc concentrations in the surface and ground waters would negatively impact water quality in Camp Creek. Stephen Day (SRK Consultants) a geochemist who has studied this discharge since 2000 addressed this concern in a letter report dated March 12, 2007 (attached in Appendix B). Using conservative assumptions, Mr. Day concluded that when the attenuation of the waste rock is exhausted, there will likely be a measurable increase in zinc levels in Camp Creek, but would remain within acceptable water quality standards in the long term.

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. On an annual basis since then, follow up

work has occurred and has been reported. In 2006, Access Consulting continued with progress monitoring and results from this program are included in Appendix C.

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 2006. Putrescible wastes from the caretaker were taken to the local municipal landfill on a regular basis.

7.3 Hydrocarbon Contaminated Soils

There are several areas near the mill site where spills of hydrocarbons either during mine operations or from subsequent storage of hydrocarbons have contaminated soils. In 2006, soil analysis indicated that the soils are "Special Waste" which has complicated planning for clean up. Plans for clean up will be finalized and implemented in 2007.

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 compiled and is attached in Appendix D.

9.0 PRODUCTION PLANS FOR 2007

Metal prices have increased substantially over the past year. While zinc prices have softened at least 25% from their high, they are still at historic levels. Supplies of zinc remain tight and news media reports are generally bullish on zinc prices over the next few years. In 2007 it is planned to undertake a detailed review of the property economics so that a decision on the future of the site can be made.

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

APPENDIX A

MEMORANDUM REGARDING SÄ DENA HES RESOURCES – DECEMBER 31ST, 2006

APPENDIX B

Sä DENA HES MINE – 1380 PORTAL

March 12, 2007

March 12, 2007
1CT008.014

Teck Cominco Limited
601 Knighton Road
Kimberley, B.C.
V1O 1C7

Attention: Bruce Donald

Dear Bruce

Sä Dena Hes Mine – 1380 Portal

Following the meeting with agency representatives at the Yukon Government offices on September 12, 2006, it was agreed to provide a brief synthesis of the conceptual model for discharge and attenuation of zinc from the 1380 Portal and evaluation of the potential effect of loss of attenuation capacity in the headwaters of Camp Creek.

Description of Flow and Chemistry Observations

The 1380 Portal accesses a very short adit into the Main Zone. Drainage from the portal was first sampled in June 1999 as part of preparation of the Closure Plan. The drainage was clear, colourless and non-acidic but was found to contain 41 mg/L zinc.

Teck Cominco inspected the adit in June 2003 to determine the source of drainage from the portal. Two sources of inflowing groundwater were found (Figure 1). Zinc concentrations were relatively low (1.36 and 0.22 mg/L). The water was then observed to contact mineralized wall rubble and zinc concentrations increased to 40 to 46 mg/L. Concentrations did not increase further as the water flowed toward the portal (Figure 1).

Drainage exiting the portal had consistent chemistry when monitored every other day in June and July 2000. Zinc concentrations varied between 40 and 50 mg/L, and the water was near pH neutral and dominated by sulphate, calcium and zinc.

Following heavy rain in June 2003, flow from the portal was observed to flow in two directions (Figure 1). The major flow entered the waste rock dump on the slopes above the creek and flowed through the waste rock not far from the surface before entering the creek. The same condition had been observed in the previous year. This water was sampled in July 2002 and found to have similar total dissolved solids to the portal drainage but had slightly lower sulphate, much lower zinc (10 mg/L compared to 49 mg/L at the portal) but higher calcium and alkalinity. The water pH was also higher (7.8 compared to 7.2).

1CT008.014_1380_Overview.20070312.doc



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The smaller component of flow from the portal followed the road down toward a former settling pond and then into the gully (Figure 1). Teck Cominco's monitoring of waters in the gully in June 2003 showed that dissolved zinc concentrations in the gully decreased from 34.7 mg/L to 11.1 mg/L before the flow disappeared (Figure 1). No significant increase in flow in the gully was observed to account for the decrease in zinc concentrations.

Water chemistry resembling the flow in the gully is not seen at any locations downstream despite monitoring by SRK of several springs feeding the headwaters of Camp Creek in July 2002. These locations are all several hundred metres from the locations where flow in the gully disappears. The main spring feeding Camp Creek was dominated by calcium and alkalinity (Figure 1). Zinc concentrations were 0.013 mg/L and sulphate 26 mg/L. No aspects of the spring water chemistry allowed it to be linked to the flow in the gully. Flow and chemistry measurements in Camp Creek during the bi-daily monitoring in June and July 2000 showed that the zinc load in Camp Creek was much lower than in the 1380 Portal drainage. However, sulphate loads in Camp Creek were consistently higher than in the portal drainage.

Conceptual Model

Zinc in the portal drainage originates from leaching of sphalerite in decomposing mineralized rock inside the adit. Oxidation of sphalerite (ZnS) produces zinc sulphate which is readily dissolved. Thermodynamic calculations showed that the drainage water was at maximum solubility for zinc carbonate. This explained Teck Cominco's observation that the zinc concentration in the drainage along the floor of the adit did not increase despite contact with mineralized rock along the flow path.

The decrease in zinc concentrations in the waste rock pile and along the gully may in part be explained by dilution but flows did not increase sufficiently to account for the decrease in zinc concentration from about 40 mg/L to near 10 mg/L. Thermodynamic calculations again showed that the waters were near maximum solubility for zinc carbonate despite the decrease in zinc concentrations. This could be explained by reaction of the drainage waters with dissolving marble causing the observed increase in pH and precipitation of zinc as zinc carbonate. This demonstrated that natural attenuation of zinc occurs by contact with the marble waste rock and talus in the gully.

There are two reasonable explanations for the increase in sulphate load in Camp Creek but deficit of zinc load in Camp Creek. Either the flow in the gully does not report to Camp Creek and the zinc and sulphate load in Camp Creek are from some other source, or the flow in the gully reports to Camp Creek but zinc is removed from the gully flow before it joins Camp Creek. The explanation for lack of zinc in this case would also need to account for the presence of sulphate load greater than found emanating from the portal. The monitoring data do not allow the two explanations to be evaluated.

SRK evaluated the second explanation experimentally by applying portal drainage to crushed marble comparable to the talus and natural rock placed in a laboratory column. The results clearly showed that sulphate was unaffected by passage through the column but zinc was removed becoming undetectable (<0.001 mg/L). The column was dismantled and rock near the top of the column was cemented by a zinc-bearing mineral which confirmed that the zinc was removed by precipitation. Zinc removal was far more effective than could be confirmed by thermodynamic calculations. While this did not prove that this removal mechanism occurs in the field, it confirmed that the natural soils at the site are capable of very efficiently removing zinc from the portal drainage. Removal of zinc could occur by two attenuation mechanisms. The first involves reaction with dissolving marble waste rock near the portal to produce zinc carbonate and resulted in concentrations near 10 mg/L. The second mechanism occurs in the soils further down slope and results in concentrations near 0.001 mg/L. Based on the results of the experiment, SRK calculated that the flow path length (600 m) between the gully and Camp Creek contained sufficient attenuation capacity to explain the lack of zinc load in Camp Creek in the time since the portal was opened.

The column experiment suggested that the rock had a finite attenuation capacity to remove zinc to low levels and it was predicted that this attenuation capacity could eventually be exhausted. Therefore, agency representatives have requested an evaluation of the effect of loss of attenuation capacity in the soils on water quality in Camp Creek. The results of a simple dilution calculation are provided in Table 1. The effect of loss of attenuation capacity is shown by the columns labelled "Breakthrough", which is simulated by assuming that the dominant load in the gully comes from the 1380 Portal and that the breakthrough concentration would be 10 mg/L. This concentration was selected (rather than the 40 to 50 mg/L observed at the portal) because the first zinc removal step occurs by reaction between dissolving limestone and the portal drainage which would be expected to persist and not be affected by formation of precipitates as occurs in the soil.

Table 1 shows that at location MH4 in Camp Creek predicted zinc concentrations are about 0.1 mg/L due to the roughly 100 times dilution in the Camp Creek. Further downstream at MH11 below the effect of South Dam seepage and Jewel Box Hill, predicted zinc concentrations are 0.04 to 0.06 mg/L. At MH13 in South False Canyon Creek, predicted concentrations are 0.01 to 0.02 mg/L. In reality, other chemical and biological factors will result in lower zinc concentrations than predicted by dilution effects alone.

The Metal Mining Effluent Regulations (MMER) do not currently apply to the Sa Dena Hes mine as it was not operating at the time that the MMER came into effect. However, if the mine re-starts production, the MMERs would then apply. The MMER would require that the mine meet the Schedule 4 authorized limit for metals concentrations at the Final Discharge Point. Teck Cominco assert (B. Donald, personal communication), based on MMER definitions, a logical location for this compliance point would be at MH11. The Schedule 4 authorized limit for zinc is 0.5 mg/L, the same as the current Water Licence standard. At MH4 the predicted zinc concentrations would be well below the 0.5 mg/L MMER standard, and at MH11, they would almost meet CCME guidelines (0.03 mg/L).

Conclusions

The conceptual model currently consists of the following components:

- Zinc sourced from dissolution of sphalerite oxidation products.
- Partial attenuation of zinc in the waste rock and gully below the 1380 Portal by interaction with dissolving marble-rich waste rock and soils.
- Strong attenuation of zinc in soils downstream of where the gully flow disappears.
- Minimal dilution of zinc concentrations by dilute surface waters.
- Unknown fate of gully drainage.

Using the conceptual model, and assuming that flow from the gully does report to Camp Creek, it was predicted that in the event of total loss of zinc attenuation capacity of the soils, zinc concentrations in Camp Creek would remain well below MMER standards and by MH11 (the logical "Final Discharge Point") could almost meet the CCME criterion.

Please contact the undersigned if you have any questions.

Yours truly,

SRK Consulting (Canada) Inc.



Stephen Day, P.Geo.
Principal Geochemist

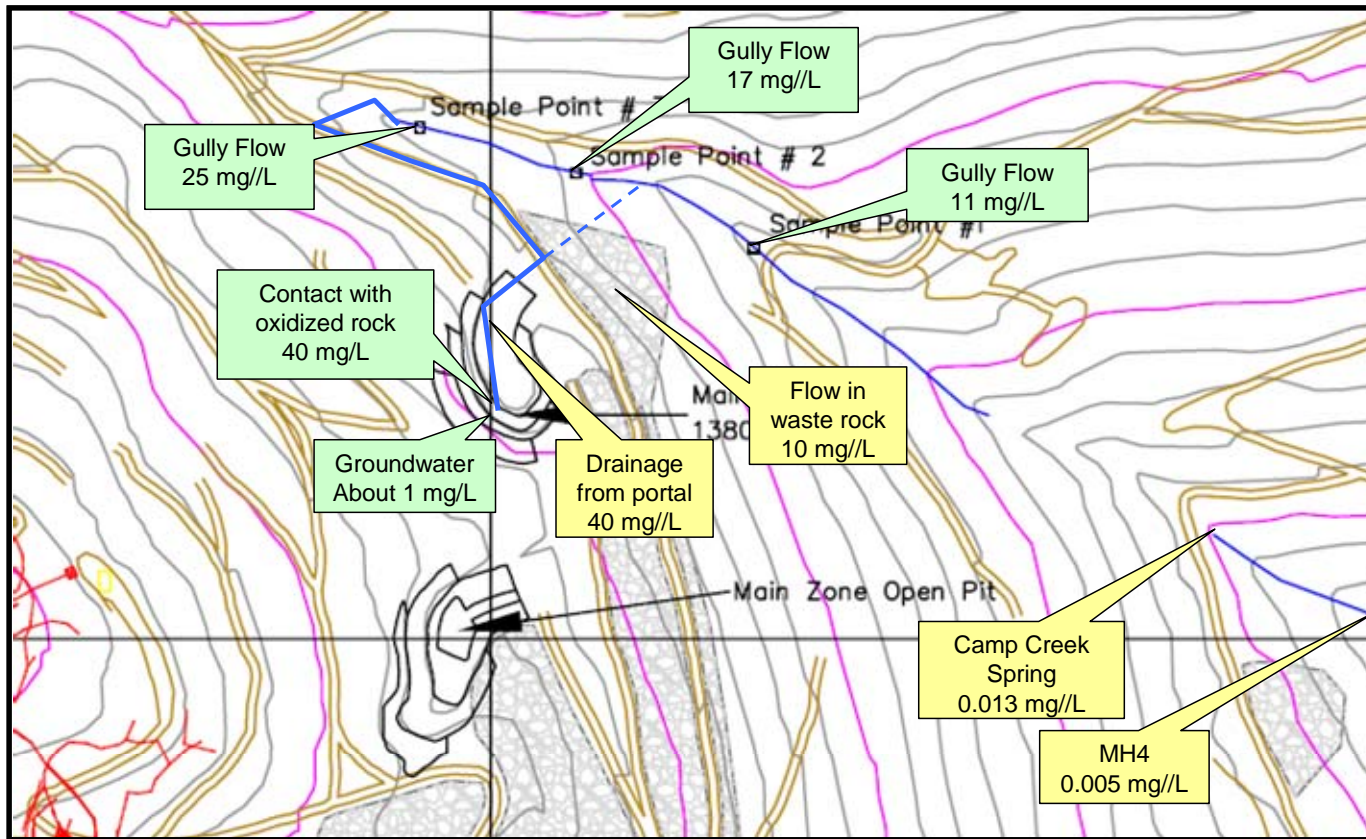


Figure 1: Compilation of Dissolved Zinc Concentrations as Determined by SRK (1999, 2000, 2002) (Yellow boxes) and Teck Cominco (2003) (Green boxes). Approximate flow paths between the portal and gully are shown.

Table 1: Calculated Effect on Camp Creek Water Quality Due to Loss of Attenuation Capacity in the Soils Below 1380 Portal

Month	1380 Portal		MH4			MH11			MH13		
	Flow	Zinc	Flow	Zinc		Flow	Zinc		Flow	Zinc	
		Breakthrough		Current	Breakthrough		Current	Breakthrough		Current	Breakthrough
	m ³ /mo	mg/L	m ³ /mo	mg/L	mg/L	m ³ /mo	mg/L	mg/L	m ³ /mo	mg/L	mg/L
June	2592	10	248570	0.007	0.1	667269	0.02	0.06	2093002	0.005	0.02
August	625	10	71502	0.006	0.1	203186	0.01	0.04	651751	0.005	0.01
October	446	10	51151	0.008	0.1	168422	0.01	0.04	568190	0.005	0.01

APPENDIX C

RESULTS SUMMARY OF PHASE II REVEGETATION TEST PROGRAM - 2006



**SÄ DENA HES MINE
LAND RECLAMATION AND REVEGETATION PLAN**

***SUMMARY OF
Phase II Revegetation Test Program - 2006***

Prepared for:

Teck Cominco Ltd.
#600-200 Burrard Street
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January 2007

Prepared by:



A Registered Tradename for Access Mining Consultants Ltd.
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1.0 INTRODUCTION

1.1 BACKGROUND

In February 2000, Cominco submitted a Detailed Decommissioning & Reclamation Plan (the "DDRP") for the Să 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 eventual closure. 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;
- Determine the success rates of revegetation at test plots on different areas of the mine site, in particular the tailings management facility; and
- Determine the metal uptake of vegetation at the mine site (seeded and naturally occurring species).

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 at various mine site locations in order to determine the optimum applications of seed and fertilizer: 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 PROGRAM

2.1 2001 PROGRAM

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

- Establish test plots at various mine site locations in order to determine the optimum applications of seed and fertilizer, 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 initiated 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 recommends 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.

A report prepared by Access Consulting Group in March 2004 (AMCL 2004) describes the methods and results of the 2003 monitoring program and recommends action for the 2004 season.

2.4 2004 PROGRAM

The specific objectives for the 2004 season were to:

- Examine the test plots for vegetative growth;
- Analyze seeded vegetation for the uptake of metals;
- Evaluate the results of the Phase II Program over the period from 2001 to 2004 and develop conclusions regarding the relative successes of the various revegetation protocols;
- Provide recommendations for future action.

A report prepared by Access Consulting Group in January 2005 (AMCL 2005) describes the methods and results of the 2004 monitoring program and recommends action for the 2005 season.

2.5 2005 PROGRAM

The specific objectives for the 2005 season were to:

- Examine the test plots for vegetative growth;
- Analyze seeded vegetation for the uptake of metals;

- Evaluate the results of the Phase II Program over the period from 2001 to 2005 and develop conclusions regarding the relative successes of the various revegetation protocols;
- Establish new test plots at the mine site in order to determine which seeding season (spring or fall) results in the higher rate of seed germination,
- Provide recommendations for future action.

A report prepared by Access Consulting Group in January 2006 (AMCL 2006) describes the methods and results of the 2005 monitoring program and recommends action for the 2006 season.

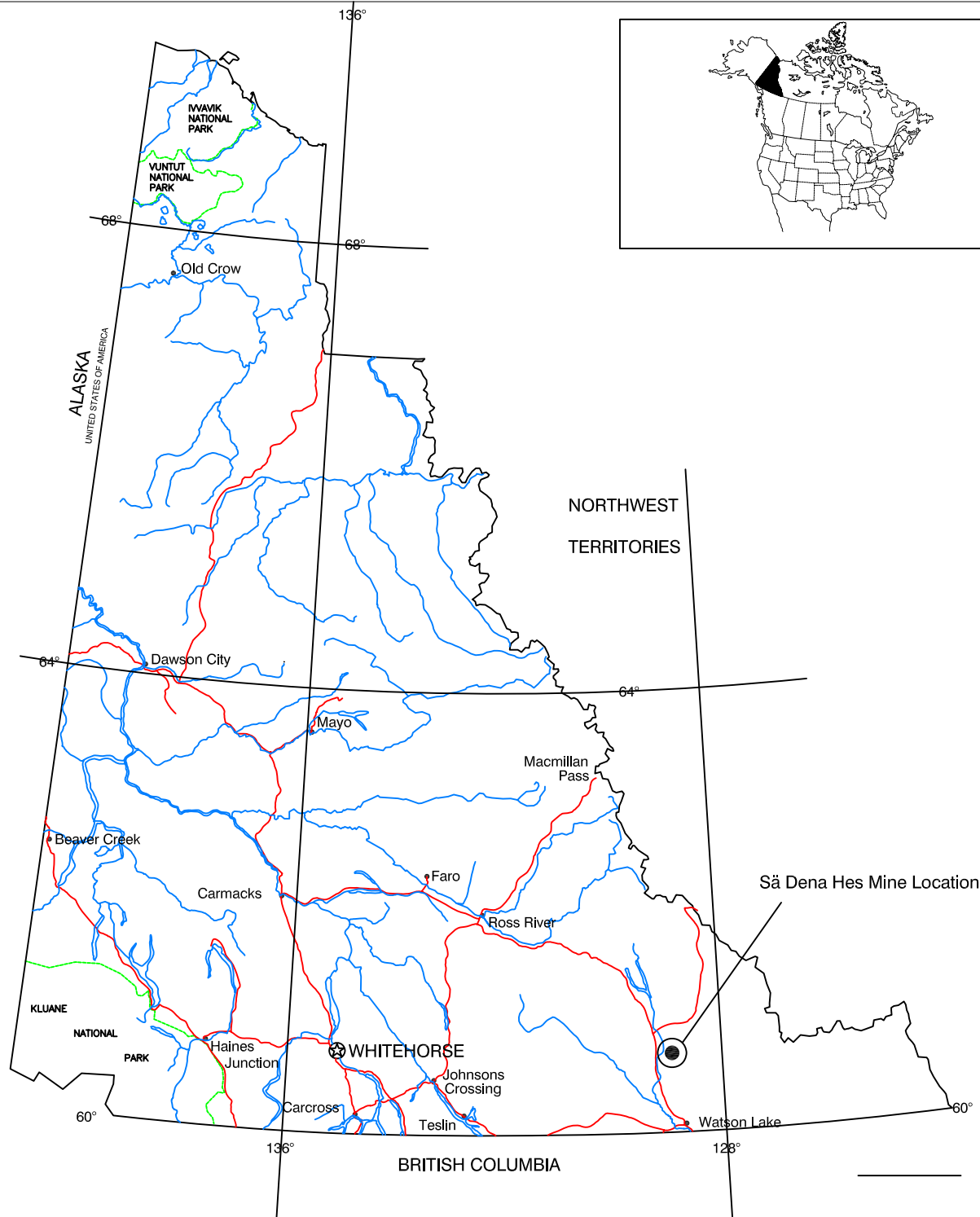
2.6 2006 PROGRAM

The specific objectives for the 2006 season were to:

- Examine the original test plots for vegetative growth;
- Examine the test plots established in 2005 in order to determine which seeding season (spring or fall) results in the higher rate of seed germination,
- Analyze seeded vegetation for the uptake of metals;
- Evaluate the results of the Phase II Program over the period from 2001 to 2006 and develop conclusions regarding the relative successes of the various revegetation treatments;
- Provide recommendations for future action.

The following sections provide a description of the 2006 project methods and a summary of the results.

Yukon Territory



Sā Dena Hes Mine Location



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

- *Populated Settlements*
- ★ *Territorial Capital*

Teck Cominco Ltd. Sā Dena Hes Mine
Land Reclamation & Revegetation Plan:
2005 Revegetation Test Program

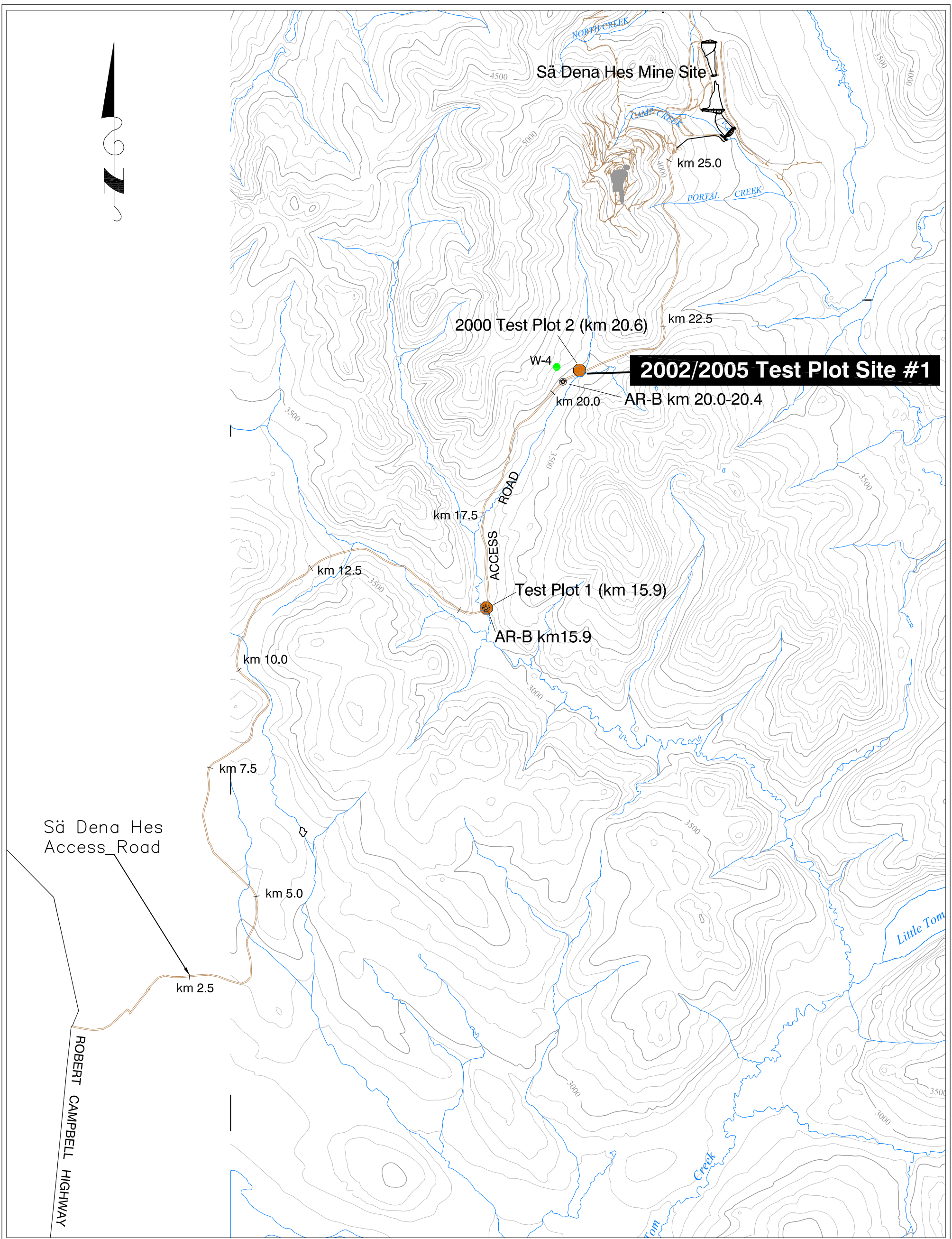
General Location Map (Map of Yukon)

teckcominco

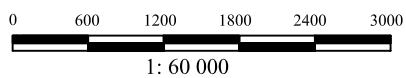


DRAWN BY: JEA	MODIFIED BY: HD	CHECKED BY: SK
DATE: 10/17/2000	DATE: Jan. 2007	SCALE 1:6 000 000

Figure 1








CONTOUR INTERVAL 100 FEET



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



Legend:

-  Soil sample location
-  Access Road
-  Watercourse
-  Test plot area
-  Willow Sample Location



**Teck Cominco Ltd. Sä Dena Hes Mine
 Land Reclamation & Revegetation Plan:
 2005 Revegetation Test Program**

Figure 2: Test Plot Locations - Mine Access Road





Drawn By: JEA	Revised By: HD	Checked By: SK
Date: 10/17/2000	Date: Jan. 2007	

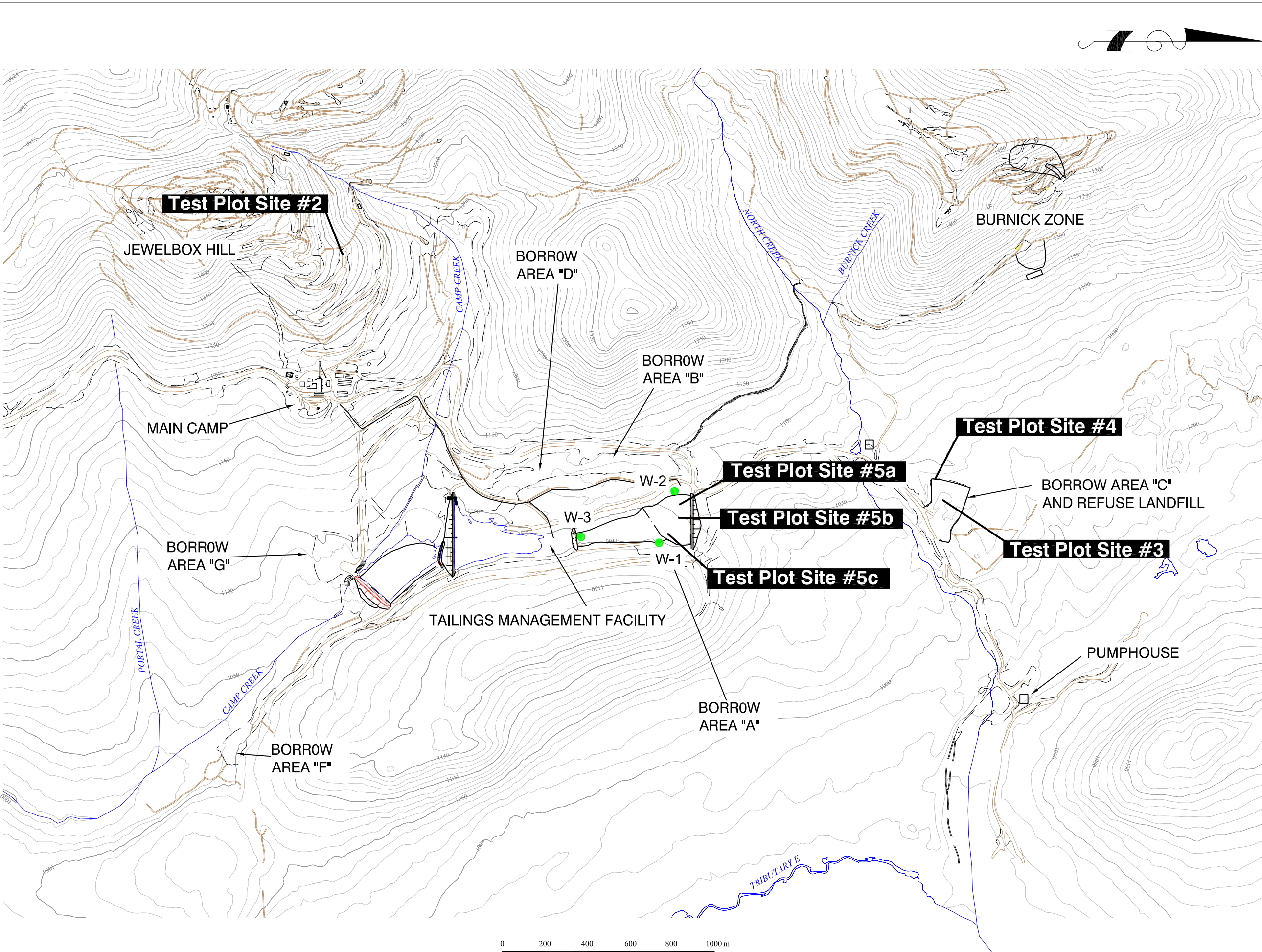
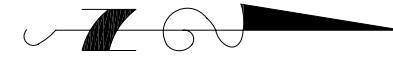
File: D:\Project\AIP\Projects\Cominco\dwg\Reveg\RevisedJan07\Fig2_TestPlotLoc_road.dwg

Teck Cominco Ltd.
 Sä Dena Hes Mine
 Land Reclamation &
 Revegetation Plan:
 2005 Revegetation Test
 Program



Legend:

-  Watercourse
-  Road within cleared area
-  Topography
-  Willow Sample Location



NOTE
 CONTOUR INTERVAL=10m
 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	Date: 10/17/2000
Revised By: HD	Date: Jan. 2007
Checked By: SK	



3.0 2006 PROJECT METHODS

3.1 SEED TEST PLOT MONITORING

The revegetation test plots were surveyed on September 1, 2006. An additional inspection of the revegetation sites was made with a TeckCominco representative on September 13, 2006. At the time of the September 1 survey, the ground was still unfrozen and with no snow cover. At each site, the total vegetative cover was estimated and an assessment of the success of each seeded species was made. Conditions around each plot were noted and observations recorded on such items as migration of seeded species off-plot, signs of animal activity, and natural revegetation success in the area. The results are presented in Section 4.1.

3.2 SHRUB TEST PLOT MONITORING

The two shrub test plots established in the fall of 2000 were surveyed. The number of surviving willow species was counted and observations on vegetation condition were documented. The results are shown in Section 4.3.

3.3 VEGETATION AND SOIL SAMPLING FOR METAL CONCENTRATIONS

Samples of plant tissue were collected from two locations for metal analysis. These included an off-site location (Site 1- km 22 main access road) and an on-site tailings location (Site 5A -TMF with 200 mm soil base). At each site, tissue samples from each species were composited from the four test plots. Approximately 20 grams of each plant species (stem and leaves) were collected. Samples were taken from the following species:

Km 22 Main Access Road

Violet Wheatgrass
Tufted Hairgrass
Ticklegrass
Alpine bluegrass
Sheep Fescue
Alfalfa

TMF with 200 mm Soil

Violet Wheatgrass
Tufted Wheatgrass
Ticklegrass
Alpine Bluegrass
Rocky Mountain Fescue
Alfalfa

Soil samples were also collected from each of the four test plots at the two sites. Samples of willow leaves were also collected at four new sites (see Figures 2 and 3) as a first step at providing QA on the metal uptake observations at the seeded plots:

- Site W-1** at edge of TMF near Test Plots Site 5C
- Site W-2** at edge of TMF near Test Plots Site 5A
- Site W-3** at edge of TMF near middle dam
- Site W-4** Main Access Road near Test Plots Site 1

Vegetation and soil samples were collected with latex gloves and stored in laboratory-supplied plastic sample bags. Vegetation samples were washed with de-ionized water at the collection site. All samples were shipped to Norwest Labs in Surrey, BC for metals analysis. The analytical results are discussed in Section 4.3.

4.0 2006 MONITORING RESULTS

Following are the results of the 2006 monitoring program.

4.1 OBSERVATIONS OF SEED TEST PLOTS ESTABLISHED IN 2001

The 2006 observations of the revegetation test plots (seeded in 2001 and reseeded in 2003) are summarized in the following tables. For the applied seed mixes and fertilizer formulations, see 2001 and 2003 Summary Reports (AMCL 2002 and 2004).

Table 1 Km 22 Main Access Road (Site 1)

	Plot #1	Plot #2	Plot # 3	Plot # 4
Species	2001: 24 kg/ha seed & 120 kg/ha fertilizer (24-24-24)	2001:24 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	2001: 12 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	Control (no seed or fertilizer)
	2003: 25 kg/ha seed & 120 kg/ha fertilizer (18-18-18)	2003: 50 kg/ha seed & 180 kg/ha fertilizer (18-18-18)	2003: 75 kg/ha seed & 240 kg/ha fertilize (18-18-18)	
	Estimated total cover 40%	Estimated total cover 60%	Estimated total cover 60%	Estimated total cover 10%
Violet Wheatgrass (<i>Agropyron violaceum</i>)	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 25 cm high • all plants in seed 	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 25 cm high • all plants in seed 	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 25 cm high • most plants in seed 	
Tufted Hairgrass <i>Deschampsia caespitosa</i>	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 60 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 60 cm high • all plants in seed 	<ul style="list-style-type: none"> • no evidence no evidence of Tufted Hairgrass on plot 	
Ticklegrass <i>Agrostis scabra</i>	<ul style="list-style-type: none"> • no evidence of Ticklegrass on plot 	<ul style="list-style-type: none"> • no evidence of Ticklegrass on plot 	<ul style="list-style-type: none"> • no evidence of Ticklegrass on plot 	
Sheep Fescue <i>Festuca ovina</i>	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 20 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 20 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 15 cm high • all plants in seed 	
Alpine Bluegrass <i>Poa alpina</i>	<ul style="list-style-type: none"> • good distribution over plot • approximately 20 cm high • few plants in seed 	<ul style="list-style-type: none"> • good distribution over plot • approximately 20 cm high • few plants in seed 	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 15 cm high • few plants in seed 	
Alfalfa <i>Medicago sativa</i>	<ul style="list-style-type: none"> • very sparse distribution over plot • approximately 30 cm high • no plants in flower 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 30 cm high • a few plants in flower 	<ul style="list-style-type: none"> • moderate but patchy distribution over plot • approximately 30 cm high • a few plants in flower 	
Comments	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • Several small Bear Root plants observed (first evidence since seeded in 2001) 	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • no evidence of legumes seeded in 2001 	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • no evidence of legumes seeded in 2001 	
Volunteer species on and between test plots include <ul style="list-style-type: none"> • White Spruce (<i>Picea glauca</i>), • Trembling Aspen (<i>Populus tremuloides</i>), • Willows (<i>Salix</i> spp.), • Arctic Lupine (<i>Lupinus arcticus</i>), • Fireweed (<i>Epilobium angustifolium</i>) and • Timothy (<i>Phleum pratense</i>). 		Volunteer species on control plot include: <ul style="list-style-type: none"> • White Spruce (<i>Picea glauca</i>), • Trembling Aspen (<i>Populus tremuloides</i>), • Willows (<i>Salix</i> spp.), • Fireweed (<i>Epilobium angustifolium</i>), • Foxtail Barley (<i>Hordeum jubatum</i>), and • Wood Rush (<i>Luzula parviflora</i>). Growth on the control plot also includes small amounts of Sheep Fescue and Alpine Bluegrass. These grasses are presumably the result of windblown seed from the other plots.		

Table 2 Jewel Box Haul Road (Site 2)

	Plot #1	Plot #2	Plot # 3	Plot # 4
Species	2001: 24 kg/ha seed & 120 kg/ha fertilizer (24-24-24)	2001:24 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	2001: 12 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	Control (no seed or fertilizer)
	2003: 25 kg/ha seed & 120 kg/ha fertilizer (18-18-18)	2003: 50 kg/ha seed & 180 kg/ha fertilizer (18-18-18)	2003: 75 kg/ha seed & 240 kg/ha fertilize (18-18-18)	
	Estimated total cover 20% (not including previous years' litter)	Estimated total cover 60%	Estimated total cover 70%	
Violet Wheatgrass (<i>Agropyron violaceum</i>)	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 25 cm high • all plants in seed 	<ul style="list-style-type: none"> • good distribution over plot with thick patches • approximately 25 cm high • all plants in seed 	<ul style="list-style-type: none"> • heavy cover on one side of plot with little on the other • approximately 25 cm high • most plants in seed 	
Tufted Hairgrass <i>Deschampsia caespitosa</i>	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 60 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 60 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 60 cm high • all plants in seed 	
Ticklegrass <i>Agrostis scabra</i>	<ul style="list-style-type: none"> • sparse distribution over plot (heaviest along plot edges) • approximately 15 cm high • most plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 15 cm high • most plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot (mostly on plot edges) • approximately 15 cm high • most plants in seed 	
Sheep Fescue <i>Festuca ovina</i>	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 20 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 20 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 20 cm high • all plants in seed 	
Alpine Bluegrass <i>Poa alpina</i>	<ul style="list-style-type: none"> • good distribution over plot • approximately 20 cm high • most plants in seed 	<ul style="list-style-type: none"> • good distribution over plot • approximately 20 cm high • most plants in seed 	<ul style="list-style-type: none"> • good distribution over plot • approximately 20 cm high • most plants in seed 	
Alfalfa <i>Medicago sativa</i>	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 30 cm high • some plants in flower 	<ul style="list-style-type: none"> • good distribution over plot • approximately 30 cm high • some plants in flower 	<ul style="list-style-type: none"> • good distribution over plot • approximately 30 cm high • some plants in flower 	
Comments	<ul style="list-style-type: none"> • large amount of litter from previous years' growth (mostly Violet Wheatgrass) • no evidence of legumes seeded in 2001 	<ul style="list-style-type: none"> • large amount of litter from previous years' growth (mostly Violet Wheatgrass) • several Bear Root plants observed (seeded in 2001) • no evidence of other legumes seeded in 2001 	<ul style="list-style-type: none"> • large amount of litter from previous years' growth (mostly Violet Wheatgrass) • several Bear Root plants observed (seeded in 2001) • no evidence of other legumes seeded in 2001 	
Volunteer species on and between test plots include: <ul style="list-style-type: none"> • Alpine Fir (<i>Abies lasiocarpa</i>) • Willows (<i>Salix</i> spp.) • Fireweed (<i>Epilobium angustifolium</i>) • Spike Trisetum (<i>Trisetum spicatum</i>) and • Red Fescue (<i>Festuca rubra</i>). 			Volunteer species on control plot include: <ul style="list-style-type: none"> • Alpine Fir (<i>Abies lasiocarpa</i>) • Willow (<i>Salix</i> spp.) • Broad-leaved Willowherb (<i>Epilobium latifolium</i>) • Arctic Dock (<i>Rumex arcticus</i>) • Mountain Sorel (<i>Oxyria dignya</i>) • Spike Trisetum (<i>Trisetum spicatum</i>). Growth on the control plot also includes small amounts of Ticklegrass and Bear Root. These seeded species are presumably the result of windblown seed from the other plots.	

Table 3 Landfill (Site 3)

	Plot #1	Plot #2	Plot # 3	Plot # 4
Species	2001: 24 kg/ha seed & 120 kg/ha fertilizer (24-24-24)	2001:24 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	2001: 12 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	Control (no seed or fertilizer)
	2003: 25 kg/ha seed & 120 kg/ha fertilizer (18-18-18)	2003: 50 kg/ha seed & 180 kg/ha fertilizer (18-18-18)	2003: 75 kg/ha seed & 240 kg/ha fertilize (18-18-18)	
	Estimated total cover 50% (not including previous years' litter)	Estimated total cover 50% (not including previous years' litter)	Estimated total cover 70%	Estimated total cover 5%
Violet Wheatgrass <i>(Agropyron violaceum)</i>	<ul style="list-style-type: none"> sparse distribution over plot (much less than last year) approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot (less than last year) approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 20 cm high all plants in seed 	
Tufted Hairgrass <i>Deschampsia caespitosa</i>	<ul style="list-style-type: none"> moderate distribution over plot approximately 60 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 60 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 60 cm high all plants in seed 	
Ticklegrass <i>Agrostis scabra</i>	<ul style="list-style-type: none"> very sparse distribution over plot approximately 15 cm high most plants in seed 	<ul style="list-style-type: none"> very sparse distribution over plot approximately 15 cm high most plants in seed 	<ul style="list-style-type: none"> no evidence of Ticklegrass on plot 	
Sheep Fescue <i>Festuca ovina</i>	<ul style="list-style-type: none"> good distribution over plot approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> good distribution over plot approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> good distribution over plot approximately 20 cm high all plants in seed 	
Alpine Bluegrass <i>Poa alpina</i>	<ul style="list-style-type: none"> no evidence of Alpine Bluegrass on plot 	<ul style="list-style-type: none"> very sparse distribution over plot approximately 20 cm high most plants in seed 	<ul style="list-style-type: none"> very sparse distribution over plot approximately 20 cm high most plants in seed 	
Alfalfa <i>Medicago sativa</i>	<ul style="list-style-type: none"> moderate distribution over plot approximately 30 cm high some plants in flower 	<ul style="list-style-type: none"> moderate distribution over plot approximately 30 cm high some plants in flower 	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high most plants in flower 	
Comments	<ul style="list-style-type: none"> very large amount of litter from previous years' growth no evidence of legumes seeded in 2001 	<ul style="list-style-type: none"> large amount of litter from previous years' growth one Bear Root plant observed (seeded in 2001) no evidence of other legumes seeded in 2001 	<ul style="list-style-type: none"> moderate amount of litter from previous years' growth no evidence of legumes seeded in 2001 	
Volunteer species on and between test plots include: <ul style="list-style-type: none"> White Spruce (<i>Picea glauca</i>), Alpine Fir (<i>Abies lasiocarpa</i>), Balsam Poplar (<i>Populus balsamifera</i>), willows (<i>Salix</i> spp.), White Clover (<i>Trifolium repens</i>), Fireweed (<i>Epilobium angustifolium</i>) and Timothy (<i>Phleum pratense</i>). 		Volunteer species on control plot include <ul style="list-style-type: none"> White Spruce (<i>Picea glauca</i>), Balsam Poplar (<i>Populus balsamifera</i>) and willows (<i>Salix</i> spp.). Growth on the control plot also includes small amounts of Violet Wheatgrass, Ticklegrass, and Sheep Fescue, Alpine Bluegrass and Alfalfa. These species are presumably the result of windblown seed from the other plots.		

Table 4 TMF with 200 mm Soil (Site 5A)

	Plot #1	Plot #2	Plot # 3	Plot # 4
Species	2001: 24 kg/ha seed & 120 kg/ha fertilizer (24-24-24) 2003: 25 kg/ha seed & 120 kg/ha fertilizer (18-18-18)	2001:24 kg/ha seed & 60 kg/ha fertilizer (24-24-24) 2003: 50 kg/ha seed & 180 kg/ha fertilizer (18-18-18)	2001: 12 kg/ha seed & 60 kg/ha fertilizer (24-24-24) 2003: 75 kg/ha seed & 240 kg/ha fertilize (18-18-18)	Control (no seed or fertilizer)
	Estimated total cover 60%	Estimated total cover 80%	Estimated total cover 50%	Estimated total cover <5%
Violet Wheatgrass (<i>Agropyron violaceum</i>)	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 25 cm high • all plants in seed 	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 25 cm high • all plants in seed 	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 25 cm high • all plants in seed 	
Tufted Hairgrass <i>Deschampsia caespitosa</i>	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 60 cm high • all plants in seed 	<ul style="list-style-type: none"> • sparse distribution over plot • approximately 60 cm high • all plants in seed 	<ul style="list-style-type: none"> • very sparse distribution over plot • approximately 60 cm high • all plants in seed 	
Ticklegrass <i>Agrostis scabra</i>	<ul style="list-style-type: none"> • no evidence of Ticklegrass on plot 	<ul style="list-style-type: none"> • no evidence of Ticklegrass on plot 	<ul style="list-style-type: none"> • sparse distribution over plot (mostly around edges of plot) • approximately 15 cm high • most plants in seed 	
Rocky Mountain Fescue (<i>Festuca saximontana</i>)	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 20 cm high • all plants in seed 	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 20 cm high • all plants in seed 	<ul style="list-style-type: none"> • moderate distribution over plot • approximately 20 cm high • all plants in seed 	
Alpine Bluegrass <i>Poa alpina</i>	<ul style="list-style-type: none"> • no evidence of Alpine Bluegrass on plot 	<ul style="list-style-type: none"> • no evidence of Alpine Bluegrass on plot 	<ul style="list-style-type: none"> • very sparse distribution over plot (only on edges of plot) • approximately 10 cm high • few plants in seed 	
Alfalfa <i>Medicago sativa</i>	<ul style="list-style-type: none"> • good distribution over plot • approximately 30 cm high • some plants in flower 	<ul style="list-style-type: none"> • good distribution over plot • approximately 30 cm high • most plants in flower 	<ul style="list-style-type: none"> • good distribution over plot • approximately 30 cm high • some plants in flower 	
Comments	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • One Showy Locoweed plant observed (first evidence since seeded in 2001) 	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • no evidence of legumes seeded in 2001 	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • no evidence of legumes seeded in 2001 	
Volunteer species on and between test plots include: <ul style="list-style-type: none"> • Fleabane (<i>Erigeron</i> sp.), • Elegant Hawk's-beard (<i>Crepis elegans</i>) and • Timothy (<i>Phleum pretense</i>). 			Growth on the control plot includes small amounts of <ul style="list-style-type: none"> • Violet Wheatgrass, • Rocky Mountain Fescue and • Alfalfa. These species are presumably the result of windblown seed from the other plots.	

Table 5 TMF with 300 mm Soil (Site 5B)

	Plot #1	Plot #2	Plot # 3	Plot # 4
	2001: 24 kg/ha seed & 120 kg/ha fertilizer (24-24-24) 2003: 25 kg/ha seed & 120 kg/ha fertilizer (18-18-18)	2001: 24 kg/ha seed & 60 kg/ha fertilizer (24-24-24) 2003: 50 kg/ha seed & 180 kg/ha fertilizer (18-18-18)	2001: 12 kg/ha seed & 60 kg/ha fertilizer (24-24-24) 2003: 75 kg/ha seed & 240 kg/ha fertilizer (18-18-18)	Control (no seed or fertilizer)
Species	Estimated total cover 30%	Estimated total cover 50%	Estimated total cover 40%	Estimated total cover <5%
Violet Wheatgrass (<i>Agropyron violaceum</i>)	<ul style="list-style-type: none"> good distribution over plot approximately 25 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 25 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 25 cm high all plants in seed 	
Tufted Hairgrass <i>Deschampsia caespitosa</i>	<ul style="list-style-type: none"> sparse distribution over plot approximately 60 cm high all plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 60 cm high all plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 60 cm high all plants in seed 	
Ticklegrass <i>Agrostis scabra</i>	<ul style="list-style-type: none"> sparse distribution over plot approximately 15 cm high most plants in seed 	<ul style="list-style-type: none"> very sparse distribution over plot approximately 15 cm high most plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 15 cm high most plants in seed 	
Rocky Mountain Fescue (<i>Festuca saximontana</i>)	<ul style="list-style-type: none"> moderate distribution over plot approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 20 cm high all plants in seed 	
Alpine Bluegrass <i>Poa alpina</i>	<ul style="list-style-type: none"> very sparse distribution over plot approximately 10 cm high low, tufted growth with few plants in seed 	<ul style="list-style-type: none"> no evidence of Alpine Bluegrass on plot 	<ul style="list-style-type: none"> no evidence of Alpine Bluegrass on plot 	
Alfalfa <i>Medicago sativa</i>	<ul style="list-style-type: none"> sparse, patchy distribution over plot approximately 30 cm high some plants in flower 	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high most plants in flower 	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high some plants in flower 	
Comments	<ul style="list-style-type: none"> moderate amount of litter from previous years' growth One Bear Root plant observed (first evidence since seeded in 2001) 	<ul style="list-style-type: none"> moderate amount of litter from previous years' growth no evidence of legumes seeded in 2001 	<ul style="list-style-type: none"> moderate amount of litter from previous years' growth no evidence of legumes seeded in 2001 	
Volunteer species on and between test plots include <ul style="list-style-type: none"> Timothy (<i>Phleum pretense</i>). 		Growth on the control plot includes small amounts of <ul style="list-style-type: none"> Violet Wheatgrass and Ticklegrass. These grasses are presumably the result of windblown seed from the other plots.		

Table 6 TMF with 500 mm Rock and 300 mm Soil (Site 5C)

	Plot #1	Plot #2	Plot # 3	Plot # 4
Species	2001: 24 kg/ha seed & 120 kg/ha fertilizer (24-24-24)	2001: 24 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	2001: 12 kg/ha seed & 60 kg/ha fertilizer (24-24-24)	Control (no seed or fertilizer)
	2003: 25 kg/ha seed & 120 kg/ha fertilizer (18-18-18)	2003: 50 kg/ha seed & 180 kg/ha fertilizer (18-18-18)	2003: 75 kg/ha seed & 240 kg/ha fertilizer (18-18-18)	
	Estimated total cover 95%	Estimated total cover 95%	Estimated total cover 100%	Estimated total cover 10%
Violet Wheatgrass (<i>Agropyron violaceum</i>)	<ul style="list-style-type: none"> good distribution over plot approximately 25 cm high all plants in seed 	<ul style="list-style-type: none"> good distribution over plot approximately 25 cm high all plants in seed 	<ul style="list-style-type: none"> good distribution over plot approximately 25 cm high all plants in seed 	
Tufted Hairgrass <i>Deschampsia caespitosa</i>	<ul style="list-style-type: none"> moderate distribution over plot approximately 60 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 60 cm high all plants in seed 	<ul style="list-style-type: none"> moderate distribution over plot approximately 60 cm high all plants in seed 	
Ticklegrass <i>Agrostis scabra</i>	<ul style="list-style-type: none"> no evidence of Ticklegrass on plot 	<ul style="list-style-type: none"> very sparse distribution over plot approximately 15 cm high most plants in seed 	<ul style="list-style-type: none"> no evidence of Ticklegrass on plot 	
Rocky Mountain Fescue (<i>Festuca saximontana</i>)	<ul style="list-style-type: none"> sparse distribution over plot approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 20 cm high all plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 20 cm high all plants in seed 	
Red Fescue <i>Festuca rubra</i>	<ul style="list-style-type: none"> good distribution over plot approximately 15 cm high very few plants in seed 	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high very few plants in seed 	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high very few plants in seed 	
Alpine Bluegrass (<i>Poa alpina</i>)	<ul style="list-style-type: none"> very sparse distribution over plot (only on edges of plot) approximately 10 cm high low, tufted growth with no plants in seed 	<ul style="list-style-type: none"> very sparse distribution over plot (only on edges of plot) approximately 10 cm high low, tufted growth with no plants in seed 	<ul style="list-style-type: none"> no evidence of Alpine Bluegrass on plot 	
Kentucky Bluegrass <i>Poa pratensis</i>	<ul style="list-style-type: none"> sparse distribution over plot approximately 25cm high very few plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 25 cm high very few plants in seed 	<ul style="list-style-type: none"> sparse distribution over plot approximately 25 cm high very few plants in seed 	
Alfalfa <i>Medicago sativa</i>	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high some plants in flower 	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high some plants in flower 	<ul style="list-style-type: none"> good distribution over plot approximately 30 cm high some plants in flower 	

<p>Comments</p>	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • Red Fescue is forming a dense ground cover but producing little seed • no evidence of legumes seeded in 2001 	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • Red Fescue is forming a dense ground cover but producing seed • no evidence of legumes seeded in 2001 	<ul style="list-style-type: none"> • moderate amount of litter from previous years' growth • Red Fescue is forming a dense ground cover but producing seed • no evidence of legumes seeded in 2001 	
<p>A good growth of Violet Wheatgrass, Tufted Hairgrass and Alfalfa is forming between the plots. Volunteer species include</p> <ul style="list-style-type: none"> • Foxtail Barley (<i>Hordeum jubatum</i>) and • Bluejoint Reedgrass (<i>Calamagrostis canadensis</i>). 		<p>Growth on the control plot includes small amounts of</p> <ul style="list-style-type: none"> • Violet Wheatgrass, • Ticklegrass, • Alpine Bluegrass, • Red Fescue and • Alfalfa. <p>These grasses are presumably the result of windblown seed from the other plots. Volunteer species include Fleabane (<i>Erigeron</i> sp.).</p>		

From an examination of the 2006 monitoring results, the following assessment of the seeded species can be made:

Violet Wheatgrass (northern native grass seeded at all sites in 2001 and 2003)

This species has been the most successful of all the seeded native grasses. It is fairly well distributed over most of the test plots and most plants were in seed at the time of 2006 monitoring. At some sites, the dense layer of Violet Wheatgrass litter from previous years is interfering with the current season's growth.

Tufted Hairgrass (northern native grass seeded at all sites in 2001)

Although this species was not seeded in 2003 (seed not available at time of seeding), it has persisted at all sites from its initial seeding in 2001. Tufted Hairgrass plants appear to be well developed and are producing seed.

Ticklegrass (northern native grass seeded at all sites in 2001 and 2003)

Ticklegrass has a sparse cover over the test plots (non-existent on several plots). It is not competing well with the other grasses, and is not likely suited to this area. Also, because it has very small seeds that are easily wind-blown, Ticklegrass is found growing in patches away from the seeded plots. At most sites, plants are well developed and producing seed.

Alpine Bluegrass (northern native grass seeded at Sites 2 and 3 in 2001 and at all sites in 2003)

This distribution of this bluegrass species ranges from very sparse to good. Its best showing is at Site 2 (Jewel Box haul road site) where it is one of the dominant species. The plants here are mostly all in seed. On the TMF Sites, Alpine Bluegrass plants are poorly developed with a low, tufted growth form and with very few producing seed.

Glaucous Bluegrass (northern native grass seeded at Sites 1, 5A, 5B and 5C in 2001)

Glaucous Bluegrass was not identified at any of the test plots in 2006, although this species can easily be confused with Alpine Bluegrass if not in flower or seed.

Kentucky Bluegrass (non-native grass seeded at Site 5C in 2003)

Kentucky Bluegrass is sparsely distributed over the plots at Site 5C (the only site where it was seeded). Plants are poorly developed with few in seed.

Sheep Fescue (northern native grass seeded at Sites 1, 2 and 3 in 2001)

This distribution of this species ranges from sparse to good on the lower elevation sites. There was no evidence of Sheep Fescue at the Jewel Box Haul Road Site (Site 2) in 2006. All plants observed in 2006 were in seed.

Rocky Mountain Fescue (northern native grass seeded at Sites 5A, 5B and 5C in 2001)

Rocky Mountain Fescue has a sparse to moderate distribution over the three TMF sites where it was seeded in 2001. Like Sheep Fescue, it is not a major component of the vegetative cover – to be expected as this was only seeded at 11% of the seed mixture. All plants observed in 2006 were in seed.

Red Fescue (non-native grass seeded at Site 5C in 2003)

Red Fescue is well distributed over the plots at Site 5C (the only site where it was seeded). It has a dense growth on all plots, but these plants are poorly developed with few in seed (like Kentucky Bluegrass, this agronomic species is sod-forming and has the potential to choke out less competitive grass species).

Showy Locoweed (northern native legume seeded at all sites in 2001)

One Showy Locoweed plant was observed on TMF Plot 5A in 2006 (this is the first time it has been observed since it was seeded in 2001).

Bear Root (northern native legume seeded at all sites in 2001)

In 2006, Bear Root plants were observed growing at the Main Access Road (Site 1), Jewel Box Haul Road (Site 2), Landfill (Site 3) and the TMF with 200 mm soil (Site 5A). This is the second year this legume species has been observed since it was seeded in 2001.

Alfalfa (non-native legume seeded at all sites in 2003)

The distribution of this legume ranges from very sparse to good. It has a non-uniform (patchy) cover on the test plots. Some plants were in flower at all sites.

Based on the findings from the test plot surveys (2002 to 2006), following are the preliminary revegetation grass seed mix recommendations (note that these recommendations are based on growing success to date, not on metal uptake data, which is still inconclusive):

Main Access Road

Violet Wheatgrass	<i>(Agropyron violaceum)</i>
Alpine Bluegrass	<i>(Poa alpina)</i>
Sheep Fescue	<i>(Festuca ovina)</i>
Tufted Hairgrass	<i>(Deschampsia caespitosa)</i>

Service and Haul Roads

Violet Wheatgrass	<i>(Agropyron violaceum)</i>
Alpine Bluegrass	<i>Poa alpina)</i>
Tufted Hairgrass	<i>Deschampsia caespitosa)</i>

TMF

Violet Wheatgrass	(<i>Agropyron violaceum</i>)
Tufted Hairgrass	(<i>Deschampsia caespitosa</i>)
Rocky Mountain Fescue	(<i>Festuca saximontana</i>)
Kentucky Bluegrass	(<i>Poa alpina</i>)
Red Fescue	(<i>Festuca rubra</i>)

Camp and Mill Area, Refuse Site, and Borrow Pits

Violet Wheatgrass	(<i>Agropyron violaceum</i>)
Alpine Bluegrass	(<i>Poa alpina</i>)
Sheep Fescue	(<i>Festuca ovina</i>)
Tufted Hairgrass	(<i>Deschampsia caespitosa</i>)

These grass species are northern native species, with the exception of Kentucky Bluegrass and Red Fescue. These two non-native, turf-forming species may be required to help stabilize the mobile fine soils on the TMF.

4.2 OBSERVATIONS OF SEED TEST PLOTS ESTABLISHED IN 2005

In order to determine the optimum season for seeding, additional seed test plots were established in the spring and fall of 2005 at the Main Access Road (Site1), the Jewel Box Haul Road (Site 2) and the Landfill (Site 3). For seed and fertilizer mixes, see report prepared by Access Consulting Group in January 2006 (AMCL 2006).

At the Main Access Road site, both the spring and fall test plots showed a sparse vegetative growth (the spring plot about 20% cover and the fall plot about 15% cover) at the time of the September 2006 monitoring. On the spring test plot, Tufted Hairgrass, Ticklegrass and Alpine Bluegrass were observed. Only Alpine Bluegrass was in seed. On the fall test plot, only Alpine Bluegrass and Violet Wheatgrass were observed. Only Violet Wheatgrass was in seed.

At the Jewel Box Haul Road site, both the spring and fall test plots showed a sparse vegetative growth (the spring plot about 20% cover and the fall plot about 10% cover) at the time of the September 2006 monitoring. On the spring test plot, Ticklegrass, Alpine Bluegrass and Violet Wheatgrass were observed along with the legume Showy Locoweed. Ticklegrass and Violet Wheatgrass were in seed. On the fall test plot, only Alpine Bluegrass, Tufted Hairgrass and Violet Wheatgrass were observed. Violet Wheatgrass and Tufted Hairgrass were in seed.

At the Landfill site, both the spring and fall test plots showed a sparse vegetative growth (the spring plot about 20% cover and the fall plot about 10% cover) at the time of the September 2006 monitoring. On the spring test plot, all seeded grass species (Violet Wheatgrass, Tufted Hairgrass, Ticklegrass, Alpine Bluegrass and Rocky Mountain Fescue) were observed along with the legumes Arctic Lupine and Showy Locoweed. Only Bear Root was not observed. The grasses were all in seed, but the legumes had not flowered. On the fall test plot, only Alpine Bluegrass and Rocky Mountain Fescue were observed. These grasses were in seed.

From these observations of the new spring and fall test plots, no conclusions can yet be made regarding the optimum season for seeding.

Conclusions

Based on the 2006 monitoring results, the following provisional conclusions can be made about the seed test plots:

- Violet Wheatgrass, Tufted Hairgrass and Alpine Bluegrass are the most successful of the northern native grass species seeded at the test plots. The success of Alpine Bluegrass is most notable at the Site 2 (Jewel Box haul road near treeline). Alpine Bluegrass, however, is not doing well at the TMF sites.
- Sheep Fescue (Rocky Mountain Fescue on the TMF plots) is persistent on the lower elevation sites but is not growing well at the treeline site (Jewel Box haul road).
- Ticklegrass is surviving at most sites. Because Ticklegrass cannot compete well with other grasses, it is not a major component of the vegetative cover despite being a major component of the mix.
- Glaucous Bluegrass (a northern native species seeded in 2001) was not successful.
- The slow-germinating northern native legume species seeded at the test plots in 2001 are starting to appear. Showy Locoweed was observed for the first time in 2006 (TMF Site 5A). Bear Root plants were observed for the first time in 2005, and in 2006 was seen at four of the six sites.
- The non-native legume, Alfalfa (seeded in the spring of 2003) is growing on all plots, has a patchy, non-uniform cover on most plots.
- The two non-native agronomic grass species (Red Fescue and Kentucky Bluegrass), seeded at the TMF Site 5C in 2003, are growing on all plots, with the Red Fescue the most prevalent of the two. These aggressive, rhizomatous, turf-forming species may inhibit the growth of the less competitive native species, but their soil-binding properties may be an asset for revegetating more difficult areas of the TMF.
- The two TMF sites with soil covers (a 200 mm cap at Site 5A and a 300 mm cap at Site 5B) have similar plant species compositions and densities. The cap thickness, so far, has no noticeable effect on plant growth.
- The marginal success of the TMF plot revegetation is most likely attributable to plant tissue dehydration as a result of constant exposure to the wind.

- It is still too early to determine the optimum seeding season (spring or fall) from observations at the test plots established in 2005.

4.3 SHRUB TEST PLOT OBSERVATIONS

Following are 2006 observations of the two shrub test plots located at Km 16 and at Km 22 of the main access road (these willow stem cuttings were staked in September 2000):

Site	Number of Cuttings Established in 2000	Number of Plants Surviving in 2006
Access Road Km 16	40	19
Access Road Km 22	40	16

At the Km 22 site, the surviving transplanted willow cuttings are not thriving. Staked willow stem cuttings at the Km 16 site appear much healthier and have grown into large shrubs.

4.4 PLANT TISSUE AND SOILS METALS ANALYSIS

The 2006 soil metal analysis results show that some soil metal concentrations are noticeably higher at Site 1 (Km 22 Main Access Road), including antimony, arsenic, cadmium, mercury, molybdenum, nickel, selenium and zinc, while other soil metal levels are higher at Site 5A (TMF site with 200 mm soil cap), including aluminum, beryllium, chromium, cobalt, iron, lead and titanium.

An examination of the 2006 plant tissue analysis results for the aforementioned metals show that elevations in some of the plant tissue metal concentrations correspond to elevations in soil metal levels. The metals/plant species that show this correlation are indicated in the following Table 7, showing that these results are not necessarily consistent with observations in 2004 and 2005. The table shows which tissue metal levels increase in correlation to the increase in soil metal levels. In some cases the higher soil (and tissue) metal levels are at Site 1 while in other cases they are higher at Site 5A (as noted above).

Table 7 Correlations between elevated soil metal concentrations and plant tissue metal concentrations by metal parameter and plant species from 2004 – 2006.

Metal	Alpine Bluegrass			Alfalfa			Ticklegrass			Violet Wheatgrass			Tufted Hairgrass			Sheep/Rocky Mtn Fescue		
	2004	2005	2006	2004	2005	2006	2004	2005	2006	2004	2005	2006	2004	2005	2006	2004	2005	2006
Aluminium			*						*						*			*
Barium	*			*	*		*			*	*		*	*		*	*	
Beryllium	*																	
Cadmium	*			*						*						*		
Chromium			*															
Cobalt	*	*		*	*			*	*					*			*	*
Iron			*			*			*									*
Lead	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*

This data provides an indication of an uptake of some metals by each of the surviving seeded plant species. In the 2006 data set and in previous years also, there is an increase in lead concentrations in all plant species, except Ticklegrass, at Site 5A (TMF Plots) compared to Site 1 (Main Access Road Plots) as seen in the following table:

Table 8 Lead Concentrations (ug/g) at Site 1 (Km 20 Main Access Road) and Site 5A (TMF with 200 mm Soil) for 2000, and 2004 - 2006.

Soil	Site 1				Site 5A			
	2000*	2004**	2005**	2006**	2000*	2004**	2005**	2006**
Soil	8.6	12.79	12.87	12.10	20.0	40.10	58.93	34.55
Alpine Bluegrass	-	<1	0.79	0.56	-	<2	8.21	9.32
Alfalfa	-	<1	<0.2	<0.2	-	1.3	1.90	2.30
Ticklegrass	-	<1	<0.2	3.10	-	8.0	16.6	1.90
Violet Wheatgrass	-	<1	<0.2	0.50	-	1.7	1.80	0.82
Tufted Hairgrass	-	<1	<0.2	0.30	-	1.5	7.17	3.20
Sheep/Rocky Mtn Fescue	-	<1	<0.2	0.40	-	7.9	1.60	1.90

* single composite soil sample

**average of four soil samples, composite sample for plants

The rise in soil lead concentrations seen at Site 5A between plot establishment in 2000 and 2005 did not continue in 2006, based on the samples collected. Given observations of tailings mobilization and deposition by wind in the area of this testplot, it is still suspected that

windblown tailings may be contaminating the soil of this testplot. This in turn may be leading to actual metal uptake, as sample washing should have eliminated previously suspected foliar contaminant deposition. The sampling of local natural vegetation (willows) outlined below, is the first step at attempting to determine if aeolian (windblown) tailings deposition is impacting the metal uptake mechanisms and/or analysis at the tailings testplots. Further investigation is required however to determine the source of the metals and whether or not metal uptake is occurring through the testplot soils from the underlying tailings.

It should also be noted that the observed metal uptake trends have not been subjected to statistical analysis for significance and are based on only three data sets (2004 to 2006). To provide further confidence in these observations, more annual data sets are required and a program should be designed to more thoroughly examine plant metals uptake on and near the TMF.

In addition, any toxicity thresholds, potential pathways and implications to foraging wildlife have not been determined as of yet, so these metal uptake findings should be considered preliminary in nature, in advance of further toxicity investigations.

As described in Section 3.3, samples of willow leaves were collected at four sites:

Site W-1	at edge of TMF near Test Plots Site 5C
Site W-2	at edge of TMF near Test Plots Site 5A
Site W-3	at edge of TMF near middle dam
Site W-4	Main Access Road near Test Plots Site 1

Willow leaf tissue collection sites W-1 and W-2 are located at the wind-blown north end of the TMF, while collection Site W-3 is located near the middle dam to the southeast. Off-site willow leaf tissue was collected at site W-4 on the Main Access Road. Figures 2 and 3 show the willow sample collection sites.

Notable is the higher lead concentrations 29.2 ug/g and 36.9 ug/g at Sites W-1 and W-2 respectively, compared to lead concentrations of 5.07 ug/g and 0.61 ug/g at Sites W-3 and W-4,

respectively. This may indicate the lead-uptake potential of willows, as the tissue samples were washed both in the field and in the lab before ICP analysis.

Also of note is the high iron concentration in the willows sampled at Site W-3 (32,900 ug/g) compared to the iron concentrations at Sites W-1, W-2 and W-4 (251 ug/g, 296 ug/g and 33 ug/g respectively).

The results of the 2006 laboratory analysis for metal concentrations in soil and plant tissue are shown in Appendix A.

5.0 RECOMMENDATIONS

- Further monitoring of the original seed test plots (established in 2001 and reseeded in 2003) would be useful. Only through continued annual monitoring can the determination of appropriate revegetation seed formulations (particularly for the TMF) be achieved.
- Monitoring of the three new seed test plots (established in June 2005) should be monitored again in late summer 2007.
- Vegetation sampling for metal uptake analysis should continue. This should include both seeded and naturally occurring vegetation. Overall, the elements of this program should be revisited and refined further, and a formal study plan developed to determine the potential for metals uptake in plants near the TMF.
- Consultation with contaminant specialists and a literature review regarding northern plant tissue metal levels and toxicity to foraging wildlife is recommended. This should assist in developing a study design for plant metals uptake over the TMF.
- Experimentation with ground scarification and the application of fertilizer to naturally revegetating disturbed areas should be initiated.
- The seeds of alders (*Alnus crispa*) should be collected and applied to disturbed sites. Alders are nitrogen-fixing shrubs that occur naturally on site.

References

- Access Mining Consultants Ltd. 2006. *Results Summary of Sä Dena Hes Mine Phase II Revegetation Test Program - 2005*. Prepared for TeckCominco Ltd.
- Access Mining Consultants Ltd. 2005. *Results Summary of Sä Dena Hes Mine Phase II Revegetation Test Program - 2004*. Prepared for TeckCominco Ltd.
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- 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.



Sä Dena Hes Mine

Land Reclamation and Revegetation Plan

Results Summary of

Phase II Revegetation Test Program - 2006

Appendix A

Laboratory Results of

Plants Tissue and Soils Metal Analysis



**NORWEST
LABS**

LOT# 490998

Control Number

Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To:	Copy of Report To:		Copy of invoice:
Company:	Access Consulting Group	QA/QC Report <input checked="" type="checkbox"/>	Company:	Mail invoice to this address for approval <input type="checkbox"/>	
Address:	#3 Calcite Business Centre-151 Industrial Road Whitehorse, YT Y1A 2V3		Address:		
Attention:	Scott Keeseey	Report Result:	Attention:	Report Result:	
Phone:	867-668-6364	Fax <input type="checkbox"/>	Phone:	Fax <input type="checkbox"/>	
Fax:	867-667-6680	Mail <input type="checkbox"/>	Fax:	Mail <input type="checkbox"/>	
Cell:		Courier <input type="checkbox"/>	Cell:	Courier <input type="checkbox"/>	
Email:	scott@accessconsulting.ca	Email <input checked="" type="checkbox"/>	Email:	Email <input type="checkbox"/>	

Information to be included on Report and Invoice	Project ID:	COM-01	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated <input type="checkbox"/> or <input type="checkbox"/> Date required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print)			
	Project Name:	Sudena He's Reveg		Sampled by:	S. Keeseey	Date:	Sept. 1/2006
	Project Location:			Company:	ACG	Signature:	
	Legal Location:			Relinquished by:	S. Keeseey	Company:	ACG
	PO#:			Date:	Sept 5/06	Waybill number:	
Proj. Acct. Code:				Received by:			
Agreement ID:				Company:			
				Processed by:	H:30 PM		
				Norwest Labs	Date		

RECEIVED
SEP 06 2006
4:30 PM

Special Instructions/Comments

Soil Metals Analysis by ICP-MS

Sample Identification	Location	Depth	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (check off relevant samples below)														
							Total Metals (65)	Nutrients (10)	pH, Conductivity	PS1											
1 Site 1-1	1-1	-	Sept 1/06	Soil	Grab	1	✓	✓	✓	✓											
2 Site 1-2	1-2	-	"	"	"	1	✓	✓	✓	✓											
3 Site 1-3	1-3	-	"	"	"	1	✓	✓	✓	✓											
4 Site 1-4	1-4	-	"	"	"	1	✓	✓	✓	✓											
5 Site SA-1	SA-1	-	"	"	"	1	✓	✓	✓	✓	✓										
6 Site SA-2	SA-2	-	"	"	"	1	✓	✓	✓	✓											
7 Site SA-3	SA-3	-	"	"	"	1	✓	✓	✓	✓											
8 Site SA-4	SA-4	-	"	"	"	1	✓	✓	✓	✓											
9		-																			
10		-																			
11		-																			
12		-																			
13		-																			
14		-																			



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.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Scott Keeseey
Sampled By: Scott Keeseey
Company: ACG

Project ID: COM-01
Name: SaDena Hes Revege
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490998
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 18, 2006
Report Number: 900849

Contact	Company	Address												
Scott Keeseey Web x Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca												
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>A 1</td> <td>Email - Single Report</td> <td>PDF</td> </tr> <tr> <td>A 1</td> <td>Email - Single Report</td> <td>Standard List</td> </tr> </tbody> </table>			Copies	Delivery Strategy	Format	1	Post		A 1	Email - Single Report	PDF	A 1	Email - Single Report	Standard List
Copies	Delivery Strategy	Format												
1	Post													
A 1	Email - Single Report	PDF												
A 1	Email - Single Report	Standard List												

NOTE: **P** indicates a preliminary report is required
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Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients

Lot Notes:

Sample Notes:

Batch Notes:

Method Notes:

Method Result Notes:

Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
900849 Env2QC 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.

9/18/06 900849 18-Sep-2006



Sample Custody

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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Scott Keeseey
Sampled By: Scott Keeseey
Company: ACG

Project
ID: COM-01
Name: SaDena Hes Reveg
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490998
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 18, 2006
Report Number: 900849

Sample Disposal Date: Oct 18, 2006

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 18, 2006.



Analytical Report

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Page: 1 of 12

Analyte	Units	Results	Results	Results	Detection Limit
Available Nutrients					
Nitrate - N	Available	mg/kg	<1	<1	1
Phosphorus	Available	mg/kg	23	15	5
Potassium	Available	mg/kg	40	50	10
Sulfate-S	Available	mg/kg	5	4	1
Ammonium - N	Available-dry basis	mg/kg	<0.3	<0.3	0.4
Metals Strong Acid Digestion					
Aluminum	Strong Acid Extractable	ug/g	2720	2700	4560
Antimony	Strong Acid Extractable	ug/g	6.3	6.1	6.1
Arsenic	Strong Acid Extractable	ug/g	26.4	28.0	26.6
Barium	Strong Acid Extractable	ug/g	95.7	122	150
Beryllium	Strong Acid Extractable	ug/g	0.37	0.34	0.46
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5
Cadmium	Strong Acid Extractable	ug/g	2.1	2.2	1.8
Calcium	Strong Acid Extractable	ug/g	27400	20900	10600
Chromium	Strong Acid Extractable	ug/g	4.78	6.66	8.94
Cobalt	Strong Acid Extractable	ug/g	4.2	4.5	5.54
Copper	Strong Acid Extractable	ug/g	30.5	33.5	27.5
Iron	Strong Acid Extractable	ug/g	13200	13300	16600
Lead	Strong Acid Extractable	ug/g	11.5	11.2	13.2
Lithium	Strong Acid Extractable	ug/g	3.0	3.1	5.2
Magnesium	Strong Acid Extractable	ug/g	11700	7610	5620
Manganese	Strong Acid Extractable	ug/g	179	196	222
Mercury	Strong Acid Extractable	ug/g	0.080	0.083	0.084
Molybdenum	Strong Acid Extractable	ug/g	7.44	8.28	9.37
Nickel	Strong Acid Extractable	ug/g	50.1	52.8	57.3
Phosphorus	Strong Acid Extractable	ug/g	872	643	925
Potassium	Strong Acid Extractable	ug/g	605	612	606
Selenium	Strong Acid Extractable	ug/g	1.3	0.8	1.1
Silicon	Strong Acid Extractable	ug/g	426	366	412
Silver	Strong Acid Extractable	ug/g	0.5	0.4	0.3
Sodium	Strong Acid Extractable	ug/g	16	18	24
Strontium	Strong Acid Extractable	ug/g	39.7	30.8	18.4
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3
Tin	Strong Acid Extractable	ug/g	0.5	0.6	0.3
Titanium	Strong Acid Extractable	ug/g	26.8	23.9	28.4



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NWL Lot ID: 490998
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 Date Received: Sep 06, 2006
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 Report Number: 900849

	NWL Number	490998-1	490998-2	490998-3	
	Sample Date	Sep 01, 2006	Sep 01, 2006	Sep 01, 2006	
	Sample Description	Site 1-1	Site 1-2	Site 1-3	
	Matrix	Soil	Soil	Soil	

Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion - Continued						
Vanadium	Strong Acid Extractable	ug/g	30.7	26.9	33.8	0.1
Zinc	Strong Acid Extractable	ug/g	227	229	243	0.1
Zirconium	Strong Acid Extractable	ug/g	5.47	9.43	6.83	0.05
Salinity						
Electrical Conductivity	Saturated Paste	dS/m at 25 C	0.30	0.22	0.21	0.01
Soil Acidity						
pH	1:2 Soil:Water	pH	7.8	8.2	7.8	0.5

	NWL Number	490998-1	490998-5	
	Sample Date	Sep 01, 2006	Sep 01, 2006	
	Sample Description	Site 1-1	Site 5A-1	
	Matrix	Soil	Soil	

Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Texture			Loamy Sand	Sandy Loam		
Sand	Soil Texture	% by weight	76.8	58.4		
Silt	Soil Texture	% by weight	17.6	29.6		
Clay	Soil Texture	% by weight	5.6	12.0		



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LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490998
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 18, 2006
Report Number: 900849

Analyte	Units	NWL Number	490998-4	490998-5	490998-6	Detection Limit
		Sample Date	Sep 01, 2006	Sep 01, 2006	Sep 01, 2006	
		Sample Description	Site 1-4	Site 5A-1	Site 5A-2	
		Matrix	Soil	Soil	Soil	
Available Nutrients						
Nitrate - N	Available	mg/kg	<1	<1	<1	1
Phosphorus	Available	mg/kg	11	<5	<5	5
Potassium	Available	mg/kg	30	40	20	10
Sulfate-S	Available	mg/kg	4	7	4	1
Ammonium - N	Available-dry basis	mg/kg	0.6	0.5	0.3	0.3
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	4740	19700	18600	1
Antimony	Strong Acid Extractable	ug/g	6.4	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	24.8	10.8	11.4	0.2
Barium	Strong Acid Extractable	ug/g	161	105	97.7	0.03
Beryllium	Strong Acid Extractable	ug/g	0.44	0.68	0.64	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	1.8	0.4	0.52	0.05
Calcium	Strong Acid Extractable	ug/g	13600	35500	41200	2
Chromium	Strong Acid Extractable	ug/g	9.16	21.1	22.8	0.04
Cobalt	Strong Acid Extractable	ug/g	6.29	12.2	11.4	0.05
Copper	Strong Acid Extractable	ug/g	28.8	28.7	28.6	0.05
Iron	Strong Acid Extractable	ug/g	16100	33300	31400	1
Lead	Strong Acid Extractable	ug/g	12.5	35.0	37.3	0.3
Lithium	Strong Acid Extractable	ug/g	6.0	49.9	48.0	0.1
Magnesium	Strong Acid Extractable	ug/g	7300	13000	12600	1
Manganese	Strong Acid Extractable	ug/g	248	418	376	0.3
Mercury	Strong Acid Extractable	ug/g	0.101	0.022	0.020	0.003
Molybdenum	Strong Acid Extractable	ug/g	8.69	1.2	1.6	0.05
Nickel	Strong Acid Extractable	ug/g	57.7	33.2	33.4	0.1
Phosphorus	Strong Acid Extractable	ug/g	862	738	795	0.5
Potassium	Strong Acid Extractable	ug/g	644	759	726	5
Selenium	Strong Acid Extractable	ug/g	0.9	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	529	677	675	1
Silver	Strong Acid Extractable	ug/g	0.3	<0.2	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	27	53	55	1
Strontium	Strong Acid Extractable	ug/g	21.0	127	143	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	0.3	0.3	0.7	0.2
Titanium	Strong Acid Extractable	ug/g	37.5	104	137	0.05



Analytical Report

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.
 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Scott Keeseey
 Sampled By: Scott Keeseey
 Company: ACG

Project ID: COM-01
Name: SaDena Hes Reveg
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490998
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 18, 2006
Report Number: 900849

Analyte	Units	Results		Detection Limit
		Site 5A-3 Soil	Site 5A-4 Soil	
Available Nutrients				
Nitrate - N	Available	mg/kg	<1	1
Phosphorus	Available	mg/kg	<5	5
Potassium	Available	mg/kg	40	10
Sulfate-S	Available	mg/kg	7	170
Ammonium - N	Available-dry basis	mg/kg	0.4	0.3
Metals Strong Acid Digestion				
Aluminum	Strong Acid Extractable	ug/g	18300	19100
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5
Arsenic	Strong Acid Extractable	ug/g	10.8	10.8
Barium	Strong Acid Extractable	ug/g	86.9	90.9
Beryllium	Strong Acid Extractable	ug/g	0.62	0.63
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5
Cadmium	Strong Acid Extractable	ug/g	0.5	0.4
Calcium	Strong Acid Extractable	ug/g	46800	47800
Chromium	Strong Acid Extractable	ug/g	19.9	21.6
Cobalt	Strong Acid Extractable	ug/g	12.1	12.1
Copper	Strong Acid Extractable	ug/g	28.3	30.7
Iron	Strong Acid Extractable	ug/g	32100	32900
Lead	Strong Acid Extractable	ug/g	32.2	33.7
Lithium	Strong Acid Extractable	ug/g	48.7	50.4
Magnesium	Strong Acid Extractable	ug/g	12800	12800
Manganese	Strong Acid Extractable	ug/g	434	360
Mercury	Strong Acid Extractable	ug/g	0.024	0.019
Molybdenum	Strong Acid Extractable	ug/g	1.2	1.4
Nickel	Strong Acid Extractable	ug/g	32.2	33.6
Phosphorus	Strong Acid Extractable	ug/g	769	756
Potassium	Strong Acid Extractable	ug/g	667	700
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3
Silicon	Strong Acid Extractable	ug/g	556	631
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2
Sodium	Strong Acid Extractable	ug/g	48	58
Strontium	Strong Acid Extractable	ug/g	160	166
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3
Tin	Strong Acid Extractable	ug/g	0.3	0.6
Titanium	Strong Acid Extractable	ug/g	112	129



Analytical Report

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.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Scott Keeseey
Sampled By: Scott Keeseey
Company: ACG

Project ID: COM-01
Name: SaDena Hes Reveg
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490998
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 18, 2006
Report Number: 900849

NWL Number	490998-7	490998-8
Sample Date	Sep 01, 2006	Sep 01, 2006
Sample Description	Site 5A-3	Site 5A-4
Matrix	Soil	Soil

Analyte	Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion - Continued					
Vanadium	Strong Acid Extractable ug/g	25.0	25.7		0.1
Zinc	Strong Acid Extractable ug/g	130	133		0.1
Zirconium	Strong Acid Extractable ug/g	7.41	8.75		0.05
Salinity					
Electrical Conductivity	Saturated Paste dS/m at 25 C	0.35	2.11		0.01
Soil Acidity					
pH	1:2 Soil:Water pH	8.2	7.8		0.5

Approved by:

Walter Brandl
Operations Manager - Surrey



Report Transmission Cover Page

Norwest Labs
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 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Scott Keeseey
 Sampled By: S. Keeseey
 Company: ACG

Project ID: COM - 01
Name: SaDena Hes Reveg.
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490883
Control Number:
Date Received: Sep 07, 2006
Date Reported: Sep 14, 2006
Report Number: 900648

Contact	Company	Address												
Scott Keeseey Web x Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca												
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>A</td> <td>1 Email - Single Report</td> <td>PDF</td> </tr> <tr> <td>A</td> <td>1 Email - Single Report</td> <td>Standard List</td> </tr> </tbody> </table>		Copies	Delivery Strategy	Format	1	Post		A	1 Email - Single Report	PDF	A	1 Email - Single Report	Standard List	
Copies	Delivery Strategy	Format												
1	Post													
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xxxTravis xxxRitchie Web x Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: travis@accessconsulting.ca												
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Copies	Delivery Strategy	Format												

NOTE: **P** indicates a preliminary report is required
 NOTE: **A** indicates report is delivered using automated delivery

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

- Agreement Notes
- Lot Notes
- Sample Notes:

Notes to Clients

- Lot Notes:
- Sample Notes:
- Batch Notes:
- Method Notes:
- Method Result Notes:

Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
900648 Env2QC 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.



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.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Scott Keesey
Sampled By: S. Keesey
Company: ACG

Project
ID: COM - 01
Name: SaDena Hes Reveg.
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490883
Control Number:
Date Received: Sep 07, 2006
Date Reported: Sep 14, 2006
Report Number: 900648

Sample Disposal Date: Oct 14, 2006

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 14, 2006.



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
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 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Scott Keesey
 Sampled By: S. Keesey
 Company: ACG

Project ID: COM - 01
Name: SaDena Hes Reveg.
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490883
Control Number:
Date Received: Sep 07, 2006
Date Reported: Sep 14, 2006
Report Number: 900648

Analyte	Units	NWL Number	490883-1	490883-2	490883-3	Detection Limit
		Sample Date	Sep 01, 2006	Sep 01, 2006	Sep 01, 2006	
		Sample Description	Violet Wheatgrass - 1	Ticklegrass - 1	Tufted Hairgrass - 1	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	28	98	41	1
Antimony	Total (dry weight)	ug/g	<0.5	<1	<0.5	0.5
Arsenic	Total (dry weight)	ug/g	<0.2	<0.4	<0.2	0.2
Barium	Total (dry weight)	ug/g	35.5	24.0	25.2	0.03
Beryllium	Total (dry weight)	ug/g	<0.01	<0.03	<0.01	0.01
Bismuth	Total (dry weight)	ug/g	<0.5	<1	<0.5	0.5
Cadmium	Total (dry weight)	ug/g	0.1	<0.1	<0.05	0.05
Calcium	Total (dry weight)	ug/g	1620	2630	1200	2
Chromium	Total (dry weight)	ug/g	6.63	2.95	2.78	0.04
Cobalt	Total (dry weight)	ug/g	0.05	<0.1	<0.05	0.05
Copper	Total (dry weight)	ug/g	1.7	3.4	3.0	0.05
Iron	Total (dry weight)	ug/g	48	92	63.4	1
Lead	Total (dry weight)	ug/g	0.5	3.1	0.3	0.3
Lithium	Total (dry weight)	ug/g	0.1	0.5	0.2	0.1
Magnesium	Total (dry weight)	ug/g	721	676	698	1
Manganese	Total (dry weight)	ug/g	29.7	39.9	27.9	0.3
Molybdenum	Total (dry weight)	ug/g	0.85	3.4	2.8	0.05
Nickel	Total (dry weight)	ug/g	3.7	2.5	3.0	0.1
Phosphorus	Total (dry weight)	ug/g	1110	1120	1820	1
Potassium	Total (dry weight)	ug/g	6540	4430	8830	5
Selenium	Total (dry weight)	ug/g	<0.2	0.5	<0.2	0.3
Silver	Total (dry weight)	ug/g	<0.1	<0.3	<0.1	0.2
Sodium	Total (dry weight)	ug/g	5	14	9.3	1
Strontium	Total (dry weight)	ug/g	2.74	9.47	1.92	0.02
Titanium	Total (dry weight)	ug/g	0.3	1.4	2.5	0.05
Vanadium	Total (dry weight)	ug/g	<0.1	<0.3	0.2	0.1
Zinc	Total (dry weight)	ug/g	12.6	27.3	13.8	0.1
Zirconium	Total (dry weight)	ug/g	<0.05	0.1	<0.05	0.05



Analytical Report

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 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Scott Keeseey
 Sampled By: S. Keeseey
 Company: ACG

Project ID: COM - 01
Name: SaDena Hes Reveg.
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490883
Control Number:
Date Received: Sep 07, 2006
Date Reported: Sep 14, 2006
Report Number: 900648

Analyte	Units	NWL Number	490883-4	490883-5	490883-6	Detection Limit
		Sample Date	Sep 01, 2006	Sep 01, 2006	Sep 01, 2006	
		Sample Description Matrix	Alpine bluegrass - 1 Tissue	Fescue - 1 Tissue	Alfalfa - 1 Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	36	23	64.6	1
Antimony	Total (dry weight)	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Total (dry weight)	ug/g	<0.2	<0.2	<0.2	0.2
Barium	Total (dry weight)	ug/g	42.5	14.8	167	0.03
Beryllium	Total (dry weight)	ug/g	<0.01	<0.01	0.02	0.01
Bismuth	Total (dry weight)	ug/g	<0.5	<0.50	<0.5	0.5
Cadmium	Total (dry weight)	ug/g	<0.05	0.06	0.4	0.05
Calcium	Total (dry weight)	ug/g	1840	1190	43900	2
Chromium	Total (dry weight)	ug/g	0.749	2.63	0.32	0.04
Cobalt	Total (dry weight)	ug/g	<0.05	<0.05	0.1	0.05
Copper	Total (dry weight)	ug/g	3.0	3.4	4.9	0.05
Iron	Total (dry weight)	ug/g	37	33	54.1	1
Lead	Total (dry weight)	ug/g	0.56	0.4	<0.2	0.3
Lithium	Total (dry weight)	ug/g	0.3	0.2	3.1	0.1
Magnesium	Total (dry weight)	ug/g	842	778	3620	1
Manganese	Total (dry weight)	ug/g	31.0	38.7	37.0	0.3
Molybdenum	Total (dry weight)	ug/g	3.3	4.5	2.5	0.05
Nickel	Total (dry weight)	ug/g	2.7	2.5	3.2	0.1
Phosphorus	Total (dry weight)	ug/g	1830	980	1290	1
Potassium	Total (dry weight)	ug/g	3410	4400	8140	5
Selenium	Total (dry weight)	ug/g	<0.2	<0.2	0.52	0.3
Silver	Total (dry weight)	ug/g	<0.1	<0.1	<0.1	0.2
Sodium	Total (dry weight)	ug/g	14	6.9	16	1
Strontium	Total (dry weight)	ug/g	3.67	1.87	77.0	0.02
Titanium	Total (dry weight)	ug/g	0.4	0.4	0.3	0.05
Vanadium	Total (dry weight)	ug/g	<0.1	<0.1	<0.1	0.1
Zinc	Total (dry weight)	ug/g	17.2	18.8	28.3	0.1
Zirconium	Total (dry weight)	ug/g	<0.05	<0.05	<0.05	0.05



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Project ID: COM - 01
Name: SaDena Hes Reveg.
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Acct. Code:

NWL Lot ID: 490883
Control Number:
Date Received: Sep 07, 2006
Date Reported: Sep 14, 2006
Report Number: 900648

Analyte	Units	NWL Number	490883-7	490883-8	490883-9	Detection Limit
		Sample Date	Sep 01, 2006	Sep 01, 2006	Sep 01, 2006	
		Sample Description	Violet wheatgrass - 5A	Ticklegrass - 5A	Tufted Hairgrass - 5A	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	34	391	70.0	1
Antimony	Total (dry weight)	ug/g	<0.5	<1	<0.5	0.5
Arsenic	Total (dry weight)	ug/g	<0.2	<0.4	0.2	0.2
Barium	Total (dry weight)	ug/g	14.1	11.1	22.4	0.03
Beryllium	Total (dry weight)	ug/g	<0.01	<0.03	<0.02	0.01
Bismuth	Total (dry weight)	ug/g	<0.5	<1	<0.5	0.5
Cadmium	Total (dry weight)	ug/g	<0.05	<0.1	<0.05	0.05
Calcium	Total (dry weight)	ug/g	2860	3680	3780	2
Chromium	Total (dry weight)	ug/g	5.79	1.90	3.69	0.04
Cobalt	Total (dry weight)	ug/g	0.05	0.1	0.05	0.05
Copper	Total (dry weight)	ug/g	2.4	3.8	2.6	0.05
Iron	Total (dry weight)	ug/g	54.8	276	85.4	1
Lead	Total (dry weight)	ug/g	0.82	1.9	3.2	0.3
Lithium	Total (dry weight)	ug/g	0.1	0.6	0.2	0.1
Magnesium	Total (dry weight)	ug/g	794	758	494	1
Manganese	Total (dry weight)	ug/g	21.0	34.6	44.6	0.3
Molybdenum	Total (dry weight)	ug/g	1.0	1.5	0.62	0.05
Nickel	Total (dry weight)	ug/g	3.4	1.8	2.7	0.1
Phosphorus	Total (dry weight)	ug/g	1650	965	1800	1
Potassium	Total (dry weight)	ug/g	7010	4740	8250	5
Selenium	Total (dry weight)	ug/g	<0.2	0.5	<0.2	0.3
Silver	Total (dry weight)	ug/g	<0.1	<0.3	<0.2	0.2
Sodium	Total (dry weight)	ug/g	7.6	34	11	1
Strontium	Total (dry weight)	ug/g	8.96	12.2	14.3	0.02
Titanium	Total (dry weight)	ug/g	0.4	5.3	1.0	0.05
Vanadium	Total (dry weight)	ug/g	<0.1	0.8	<0.2	0.1
Zinc	Total (dry weight)	ug/g	17.6	23.2	20.7	0.1
Zirconium	Total (dry weight)	ug/g	<0.05	0.3	0.05	0.05



Analytical Report

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P.O.:
Acct. Code:

NWL Lot ID: 490883
Control Number:
Date Received: Sep 07, 2006
Date Reported: Sep 14, 2006
Report Number: 900648

Analyte	Units	490883-10		490883-11		490883-12	
		Sample Date	Sample Description	Sample Date	Sample Description	Sample Date	Sample Description
		Sep 01, 2006	Alpine Bluegrass - 5A	Sep 01, 2006	Fescue - 5A	Sep 01, 2006	Alfalfa - 5A
		Matrix	Tissue	Matrix	Tissue	Matrix	Tissue
		Results	Results	Results	Results	Detection Limit	
Metals Total							
Aluminum	Total (dry weight)	ug/g	77.2	46	39	1	
Antimony	Total (dry weight)	ug/g	<0.5	<0.5	<0.5	0.5	
Arsenic	Total (dry weight)	ug/g	<0.2	<0.2	<0.2	0.2	
Barium	Total (dry weight)	ug/g	48.8	23.3	18.8	0.03	
Beryllium	Total (dry weight)	ug/g	<0.01	0.01	<0.01	0.01	
Bismuth	Total (dry weight)	ug/g	<0.5	<0.5	<0.5	0.5	
Cadmium	Total (dry weight)	ug/g	0.2	0.06	0.52	0.05	
Calcium	Total (dry weight)	ug/g	2250	4110	40600	2	
Chromium	Total (dry weight)	ug/g	1.34	4.75	0.48	0.04	
Cobalt	Total (dry weight)	ug/g	0.05	0.2	0.1	0.05	
Copper	Total (dry weight)	ug/g	3.0	2.9	5.35	0.05	
Iron	Total (dry weight)	ug/g	106	66.6	95.0	1	
Lead	Total (dry weight)	ug/g	9.32	1.9	2.3	0.3	
Lithium	Total (dry weight)	ug/g	0.2	0.2	<0.099	0.1	
Magnesium	Total (dry weight)	ug/g	505	384	1520	1	
Manganese	Total (dry weight)	ug/g	39.6	36.6	40.7	0.3	
Molybdenum	Total (dry weight)	ug/g	5.04	0.88	2.4	0.05	
Nickel	Total (dry weight)	ug/g	2.0	3.2	1.5	0.1	
Phosphorus	Total (dry weight)	ug/g	1120	1130	1420	1	
Potassium	Total (dry weight)	ug/g	4290	5320	9850	5	
Selenium	Total (dry weight)	ug/g	0.3	<0.2	0.4	0.3	
Silver	Total (dry weight)	ug/g	<0.1	1.2	0.2	0.2	
Sodium	Total (dry weight)	ug/g	8.3	10	14	1	
Strontium	Total (dry weight)	ug/g	10.7	18.5	89.9	0.02	
Titanium	Total (dry weight)	ug/g	1.6	0.63	0.63	0.05	
Vanadium	Total (dry weight)	ug/g	0.3	0.2	<0.1	0.1	
Zinc	Total (dry weight)	ug/g	37.1	29.6	90.9	0.1	
Zirconium	Total (dry weight)	ug/g	<0.05	<0.05	0.05	0.05	

Approved by:

Marie England
 Consulting Scientist

490871



**NORWEST
LABS**

Environmental Sample Information Sheet

Control Number

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To: <input type="checkbox"/>	Copy of Report To:		Copy of invoice: <input type="checkbox"/>
Company:	Access Consulting Group	QA/QC Report <input checked="" type="checkbox"/>	Company:	Mail invoice to this address for approval <input type="checkbox"/>	
Address:	#3 Calcite Business Centre-151 Industrial Road Whitehorse, YT Y1A 2V3		Address:		
Attention:	Scott Keeseey	Report Result:	Attention:	Report Result:	
Phone:	867-668-6364	Fax <input type="checkbox"/>	Phone:	Fax <input type="checkbox"/>	
Fax:	867-667-6680	Mail <input type="checkbox"/>	Fax:	Mail <input type="checkbox"/>	
Cell:		Courier <input type="checkbox"/>	Cell:	Courier <input type="checkbox"/>	
Email:	scott@accessconsulting.ca	Email <input checked="" type="checkbox"/>	Email:	Email <input type="checkbox"/>	

Information to be included on Report and Invoice	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples.	Sample Custody (Please Print)
	Upon filling out this section, client accepts that surcharges will be attached to this analysis	Sampled by: S. Keeseey Date: Sept 1
	Required on: all analyses or as indicated <input type="checkbox"/> or <input type="checkbox"/>	Company: ACG Signature: _____
	Date required: _____	Relinquished by: S. Keeseey
	Signature: _____	Company: ACG Date: Sept 5
	Norwest Authorization: _____	Waybill number: RECEIVED
Project ID: COM-01		Received by: _____
Project Name: SARINA HES		Company: _____
Project Location: _____		Processed by: 4:30 PM
Legal Location: _____		Norwest Labs Date: _____
PO#: _____		
Proj. Acct. Code: _____		
Agreement ID: _____		

Special Instructions/Comments

Tissue Metal Analysis
by ICP-MS

Sample Identification	Location	Depth	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (check off relevant samples below)												
							1	2	3	4	5	6	7	8	9	10	11	12	13
1 Willow W-1	W-1	-	Sept 1	Plant tissue	Grab	1	✓												
2 Willow W-2	W-2	-	"	"	"	1	✓												
3 Willow W-3	W-3	-	"	"	"	1	✓												
4 Willow W-4	W-4	-	"	"	"	1	✓												
5		-																	
6		-																	
7		-																	
8		-																	
9		-																	
10		-																	
11		-																	
12		-																	
13		-																	
14		-																	



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.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Scott Keeseey
Sampled By: S. Keeseey
Company: ACG

Project ID: COM - 01
Name: SaPenA Hes
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490871
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 14, 2006
Report Number: 900570

Contact	Company	Address												
Scott Keeseey Web x Email Notification <table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>A 1</td> <td>Email - Single Report</td> <td>PDF</td> </tr> <tr> <td>A 1</td> <td>Email - Single Report</td> <td>Standard List</td> </tr> </tbody> </table>	Copies	Delivery Strategy	Format	1	Post		A 1	Email - Single Report	PDF	A 1	Email - Single Report	Standard List	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca
Copies	Delivery Strategy	Format												
1	Post													
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xxxTravis xxxRitchie Web x Email Notification <table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Copies	Delivery Strategy	Format				Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: travis@accessconsulting.ca						
Copies	Delivery Strategy	Format												

NOTE: **P** indicates a preliminary report is required
NOTE: **A** indicates report is delivered using automated delivery

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients
Lot Notes:
Sample Notes:
Batch Notes:
Method Notes:
Method Result Notes:

Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
900570 Env2QC 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.

9/14/06 900570 14-Sep-2006



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.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Scott Keeseey
Sampled By: S. Keeseey
Company: ACG

Project
ID: COM - 01
Name: SaPena Hes
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490871
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 14, 2006
Report Number: 900570

Sample Disposal Date: Oct 14, 2006

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 14, 2006.



Analytical Report

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.
 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Scott Keesey
 Sampled By: S. Keesey
 Company: ACG

Project ID: COM - 01
Name: SaPena Hes
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490871
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 14, 2006
Report Number: 900570

Analyte	Units	490871-1		490871-2		490871-3	
		Sample Date	Sample Description	Sample Date	Sample Description	Sample Date	Sample Description
		Sep 01, 2006	Willow - W1	Sep 01, 2006	Willow - W2	Sep 01, 2006	Willow - W3
			Matrix		Matrix		Matrix
			Tissue		Tissue		Tissue
		Results	Results	Results	Detection Limit		
Metals Total							
Aluminum	Total (dry weight)	ug/g	114	90.7	225	1	
Antimony	Total (dry weight)	ug/g	<0.5	<0.5	<0.50	0.5	
Arsenic	Total (dry weight)	ug/g	<0.2	0.2	1.0	0.2	
Barium	Total (dry weight)	ug/g	7.34	11.0	13.8	0.03	
Beryllium	Total (dry weight)	ug/g	<0.01	<0.01	<0.01	0.01	
Bismuth	Total (dry weight)	ug/g	<0.5	<0.5	<0.50	0.5	
Cadmium	Total (dry weight)	ug/g	64.6	50.6	13.6	0.05	
Calcium	Total (dry weight)	ug/g	18700	21700	19400	2	
Chromium	Total (dry weight)	ug/g	0.37	0.583	6.01	0.04	
Cobalt	Total (dry weight)	ug/g	0.56	0.63	2.2	0.05	
Copper	Total (dry weight)	ug/g	5.28	5.76	12.5	0.05	
Iron	Total (dry weight)	ug/g	251	296	32900	1	
Lead	Total (dry weight)	ug/g	29.2	36.9	5.07	0.3	
Lithium	Total (dry weight)	ug/g	<0.1	<0.1	<0.1	0.1	
Magnesium	Total (dry weight)	ug/g	1900	1190	2560	1	
Manganese	Total (dry weight)	ug/g	234	386	384	0.3	
Molybdenum	Total (dry weight)	ug/g	0.84	0.93	1.4	0.05	
Nickel	Total (dry weight)	ug/g	1.4	2.0	7.13	0.1	
Phosphorus	Total (dry weight)	ug/g	1820	2740	1630	1	
Potassium	Total (dry weight)	ug/g	12900	14500	12100	5	
Selenium	Total (dry weight)	ug/g	0.4	<0.2	1.3	0.3	
Silver	Total (dry weight)	ug/g	<0.1	0.2	<0.1	0.2	
Sodium	Total (dry weight)	ug/g	12	13	37	1	
Strontium	Total (dry weight)	ug/g	29.2	49.2	62.9	0.02	
Titanium	Total (dry weight)	ug/g	2.8	2.2	1.8	0.05	
Vanadium	Total (dry weight)	ug/g	0.2	0.3	1.4	0.1	
Zinc	Total (dry weight)	ug/g	1180	1070	759	0.1	
Zirconium	Total (dry weight)	ug/g	<0.05	0.06	0.09	0.05	



Analytical Report

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Bill to: Access Mining Consultants Ltd.
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Attn: Scott Keesey
Sampled By: S. Keesey
Company: ACG

Project
ID: COM - 01
Name: SaPena Hes
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 490871
Control Number:
Date Received: Sep 06, 2006
Date Reported: Sep 14, 2006
Report Number: 900570

NWL Number 490871-4
Sample Date Sep 01, 2006
Sample Description Willow - W4
Matrix Tissue

Analyte		Units	Results	Results	Detection Limit
Metals Total					
Aluminum	Total (dry weight)	ug/g	33		1
Antimony	Total (dry weight)	ug/g	<0.5		0.5
Arsenic	Total (dry weight)	ug/g	<0.2		0.2
Barium	Total (dry weight)	ug/g	68.2		0.03
Beryllium	Total (dry weight)	ug/g	<0.01		0.01
Bismuth	Total (dry weight)	ug/g	<0.5		0.5
Cadmium	Total (dry weight)	ug/g	15.3		0.05
Calcium	Total (dry weight)	ug/g	26100		2
Chromium	Total (dry weight)	ug/g	0.29		0.04
Cobalt	Total (dry weight)	ug/g	0.78		0.05
Copper	Total (dry weight)	ug/g	4.4		0.05
Iron	Total (dry weight)	ug/g	33		1
Lead	Total (dry weight)	ug/g	0.61		0.3
Lithium	Total (dry weight)	ug/g	<0.10		0.1
Magnesium	Total (dry weight)	ug/g	4500		1
Manganese	Total (dry weight)	ug/g	217		0.3
Molybdenum	Total (dry weight)	ug/g	1.7		0.05
Nickel	Total (dry weight)	ug/g	4.7		0.1
Phosphorus	Total (dry weight)	ug/g	3220		1
Potassium	Total (dry weight)	ug/g	7860		5
Selenium	Total (dry weight)	ug/g	<0.2		0.3
Silver	Total (dry weight)	ug/g	<0.1		0.2
Sodium	Total (dry weight)	ug/g	8.3		1
Strontium	Total (dry weight)	ug/g	34.4		0.02
Titanium	Total (dry weight)	ug/g	0.5		0.05
Vanadium	Total (dry weight)	ug/g	<0.1		0.1
Zinc	Total (dry weight)	ug/g	174		0.1
Zirconium	Total (dry weight)	ug/g	<0.05		0.05

Approved by:

Marie England
Consulting Scientist



Sä Dena Hes Mine

Land Reclamation and Revegetation Plan

Results Summary of

Phase II Revegetation Test Program - 2006

Appendix B

2006 Revegetation

Test Program Photos



Site 1 Test Plots - Km 22 Main Access Road



Site 2 Test Plots - Jewel Box Haul Road



Site 3 Test Plots - Landfill



Site 5A Test Plots -TMF with 200 mm Soil



Site 5B Test Plots -TMF with 300 mm Soil



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



Sä Dena Hes Mine

Land Reclamation and Revegetation Plan

Results Summary of

Phase II Revegetation Test Program - 2006

Appendix C

Seed and Fertilizer Mixes

2005 Additional Seeding

Excerpt from:

Access Mining Consultants Ltd. 2006. *Results Summary of Sä Dena Hes Mine Phase II Revegetation Test Program - 2005.* Prepared for TeckCominco Ltd.

New test plots were established at the Sa Dena Hes Mine on June 17-18 and September 19-20, 2005. This component of the revegetation test program was initiated to determine whether spring or fall seeding would result in a higher rate of seed germination. New plots were established at two existing on-site test locations (landfill site and Jewel Box haul road site) and one off-site test location (km 20 main access road). At each location the two new 5m X 5m test plots (one spring and one fall) were laid out adjacent to the existing plots.

Northern indigenous grass and legume seeds were purchased in Whitehorse from Arctic Alpine Seed Ltd. The same mix of seed and fertilizer was applied during the spring and fall seedings.

The following mix of northern native grass seeds were applied to each test plot:

Species	Common Name	Percent by Weight
<i>Agropyron violaceum</i>	Violet Wheatgrass	60%
<i>Deschampsia caespitosa</i>	Tufted Hairgrass	5%
<i>Agrostis scabra</i>	Ticklegrass	5%
<i>Festuca saximontana</i>	Rocky Mountain Fescue	20%
<i>Poa alpina</i>	Alpine Bluegrass	10%

The grass seed mix was broadcast by hand at a seeding rate of 50 kg/ha.

The following mix of northern legume seeds were applied to each test plot:

Species	Common Name	Percent by Weight
<i>Hedysarum alpinum</i>	Bear Root	32 %
<i>Hedysarum mackenzii</i>	Mackenzie's Hedysarum	27%
<i>Oxytropis campestris</i>	Yellow Locoweed	10%
<i>Oxytropis splendens</i>	Showy Locoweed	12%
<i>Lupinus arcticus</i>	Arctic Lupine	19%

Appendix C - Summary of Sä Dena Hes Mine Phase II Revegetation Test Program - 2006

The hard seed coats of the lupine and locoweeds were scarified by stirring the seeds with sand in a bucket. The legume seed mix was broadcast by hand at a seeding rate of 12.5 kg/ha.

Fertilizer (20-20-20) was applied to each test plot at a rate of 120 kg/ha. The seed and fertilizer were hand-raked into the soil surface.

The weather was dry at the time of spring seeding, although there was obvious residual soil moisture from recent rains. At the time of the fall seeding the ground was moist but not yet frozen.

APPENDIX D

LISTING OF

2006 WILDLIFE SIGHTINGS

AT THE MINE SITE