APPENDIX 10

RECORD OF DEBRIS PLACED INTO THE RECLAMATION LANDFILL

POLARIS MINE RECLAMATION LANDFILL RECORD OF DISPOSAL

Prepared by:

B. Donald, Teck Cominco Limited September 30, 2003



RECLAMATION LANDFILL

OVERVIEW OF DOCUMENT

The purpose of this report is to document the use of the Reclamation Landfill (aka Subsidence Landfill) at the Polaris Mine. This landfill was initiated in 1997 with two goals in mind:

- To initiate clean up of the mine site by disposing of obsolete equipment, and nonhazardous materials and supplies, and
- To make use of the fill being placed into the 'subsidence area' of the mine to provide a thick cover over the debris.

The Reclamation Landfill is located directly over some of the original underground stopes that were initially mined after the mine opened. The location of the Reclamation Landfill is indicated on the site plan provided in Appendix 1.

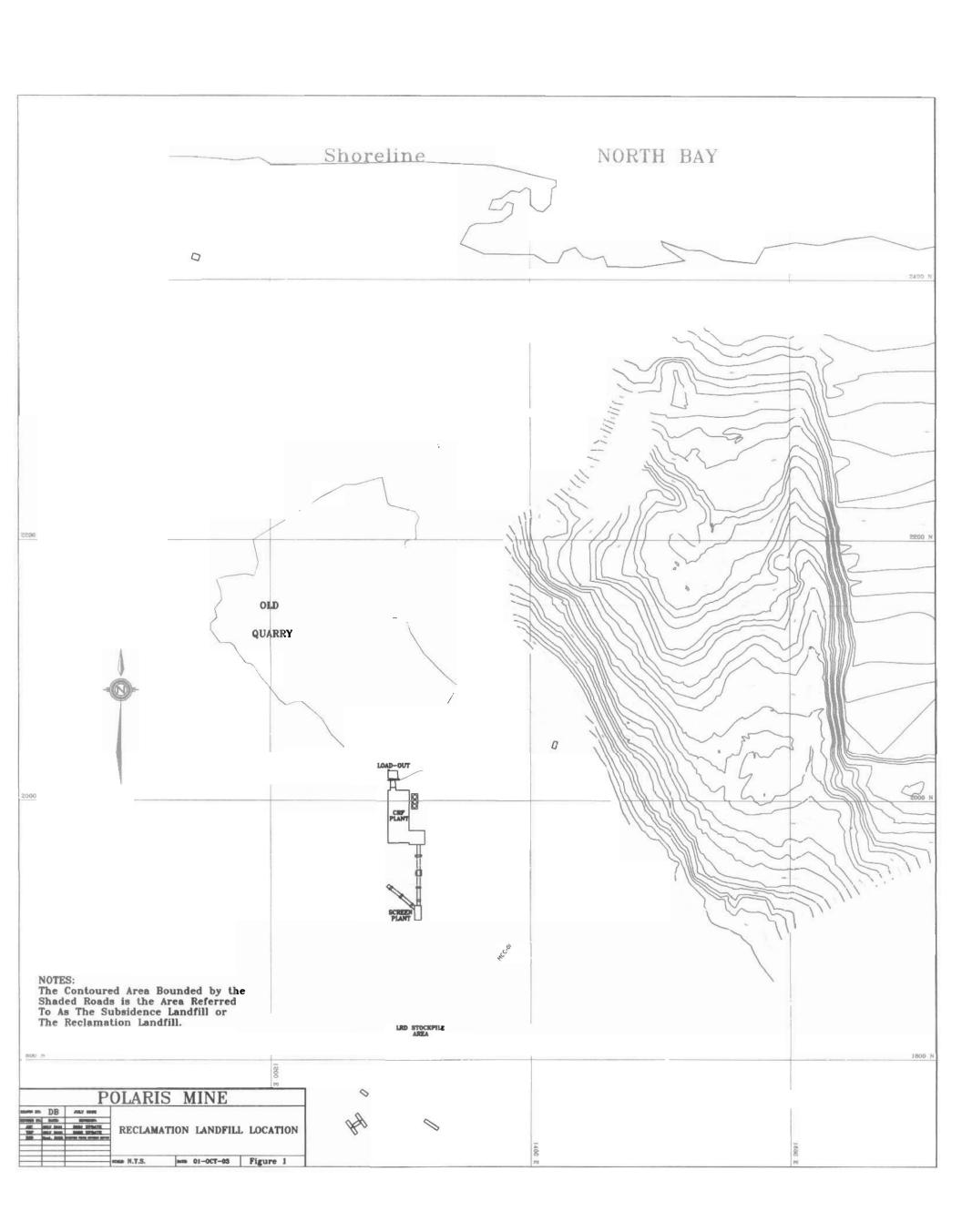
A number of areas around the site had obsolete equipment stored along with other types of obsolete materials and supplies. Cleanup of these areas once it was confirmed that the equipment/materials had no further useful life is consistent with responsible site management practices and with the concept of progressive reclamation. In 1997, an Operating Superintendent at the site was assigned the responsibility to manage the cleanup. When operating personnel could be spared from their regular operating duties, they were assigned the task of site cleanup. To ensure the Reclamation Landfill was only used for disposal of benign materials, procedures were established directing that no hazardous or special waste materials were deposited in the landfill, and that equipment designated for disposal was properly prepared first. The equipment was prepared by removing their batteries (to be shipped south for proper disposal) and all oils, greases and fuels were removed (refer to email from J. Knapp attached in Appendix 2). Once the equipment was ready for disposal, the mechanic completing work signed a form confirming that the equipment had been properly prepared. Copies of the completed forms (electronically scanned) are included in Appendix 3.

Photographs were taken on a regular basis through the process of placing materials in the Reclamation Landfill. These photographs are included in Appendix 3 and are grouped by month and/or year.

Initially after closure of the mine, it was believed that the information collected had been inadvertently lost during the demolition of the administration offices. However, it was later discovered that these records had been removed and placed into temporary storage and have now been retrieved. The records have been digitized and this document is the result to ensure there are electronic copies for safe keeping.

APPENDIX 1

LOCATION PLAN OF RECLAMATION LANDFILL



APPENDIX 2

NOTE FROM J. KNAPP, MANAGER POLARIS OPERATIONS REGARDING THE DISPOSAL OF MATERIAL IN THE RECLAMATION LANDFILL

SIMMS PAUL (P.) POL

From: KNAPP JOHN (J.B.) POL Sent: Friday, February 09, 2001 10:46 AM

To: 'edenholm@gartnerlee.com'
Cc: SIMMS PAUL (P.) POL

Subject: RE: Closure Plan

Hello Eric.

Sorry it has taken forever to respond but I have a multitude of excuses. Regardless, we don't have a documented procedure that will help very much.

We use a checklist for all disposed mobile equipment. The checklist records the equipment number and description (ie 692 Toyota) and then the following check:

Drain all oils/fluids/fuel

Remove All Filters

Remove all residual oil/grease

It is signed by the tradesman doing the work, and then endorsed by his supervisor. This record is then maintained in a binder which is also used to keep photographic documentation of materials that are placed in the sinkhole.

No hazardous materials are to be disposed of in any landfill

The Surface Supervisor is involved in the placement of material, as their crew is responsible for moving scrap to the sinkhole. The Operating Superintendent, who has overall responsibility for the Surface Crew and Mill Crew is involved in maintained the records and photographic log.

Let me know of any other questions and I'll try to be more timely. Best regards,

John

----Original Message-----

From: Eric Denholm [SMTP:edenholm@ssimicro.com]

Sent: Friday, January 19, 2001 10:08 AM

To: john.knapp@cominco.com

Subject: Closure Plan

Hi John:

We have been working on the changes to the landfill design as discussed at the meeting in Calgary. When we get a design thickness of the single layer cover that incorporates effects of pore water salinity, we will give you a call.

Regarding the reclamation landfill in the subsidence area, we have a question for you. I understand from Tony that you have a documented procedure for approving and inventorying all materials placed in this landfill. We suspect that this information may be necessary to back up the intended bulk fill (non-engineered) cover planned for this landfill.

Is this info. in a format that you could send to me so that we are up-to-date on your procedures should the question arise? We discussed making such info. an appendix to the landfill report.

I never gave you my card when we were in Calgary and some programs have trouble opening the attacehd card file ...

Eric Denholm Geological / Environmental Engineering P.O. Box 98 4909-50th Ave. Yellowknife, NT X1A 2N1 ph (867) 873-5808 fax (867) 873-4453 home (867) 669-7855 cell (867) 444-1256

Thanks,

Eric D. << File: Card for Eric Denholm >>

APPENDIX 3

MOBILE EQUIPMENT PREPARATION RECORDS

LIST OF ITEMS BURIED IN THE SINKHOLE

ROYARY BATH DRUM, GEARS AND GUARDS. ELECTRICAL CABLE TRAYS.

JUMBO BOOM.

SCALFING.

USED GRIZZLY.

WOODEN PALLETS.

WAREHOUSE SCALFING.

SEVERAL PUMP BOXES.

DUMP TRUCK BOXES.

SCOOP BUCKETS, CANOPY, and MAIN FRAME.

FLOTATION ROTORS.

STEEL PUMP CASINGS.

20 AND 40 FOOT CONTAINRES

STEEL PLATES DIFF SIZES, THICKNESS

VENT TUBING

SPLIT SETS

SULLAIR COMPRESSORS

COVERTS

JEEP PARTS

PIPE RACKES

OLD GANG PLANK

FLOTATION LAUNDER

TIRES DIFF SIZES, JEEP , LOADERS SCOOPS

RIMS, DIFFERENT SIZES

DIFFERENT SIZES CHAINS

ELECTRIAL MOTOR DIFFERENT SIZES

WOODEN CRATES

STABILIZER BARS

DIAMOND DRILL SLUDGE TANK

DOCK BOLLARD

DRUM TILTER

CONVEYOR PULLEYS

VEHICLES



Toyota #662 have had all liquion to be an example after being atriped of usable parts + sent to sink hole may soloca

Job Description imits and tolerance unless specified will be		Originator	Originator		Materials and specifications		
		Fractional + 1/64	Decimal + .005	Angular +½°	Specified Scale		
Machine finish required	As cast:	Rough	Medium	Fine	Other		

Hemarks:

Jate , 19

Name (please print)

211-1219 1

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description:_	10 yorta	Equipment	#: <u>6</u> 04
		Yes	No
Drain all oils/fluids/fuel			***
Remove all filters		-4	
Remove all residual oil/g	rease		
Tradesman Signature: _ Supervisor's Signature _	2 Pop 0		
Supervisor's Signature _	serge		_
		To	48
TO BE GIVEN TO JOHN K	NAPP FOR FILING		

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description:	Lyota	Equipmer	nt #: <u>///</u>
Drain all oils/fluids/fuel		Yes	No
Remove all filters			
Remove all residual oil/gre	ease	<u> </u>	-
Tradesman Signature:	2Rps		
Supervisor's Signature	Serge	/	
		T	K /98

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description:	Equipmen	t #:
	Yes	No
Drain all oils/fluids/fuel	1	
Remove all filters		
Remove all residual oil/grease	ww. 79	
Tradesman Signature: Supervisor's Signature		
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OBSOLETE EQUIPMENT TO BE BURIED

Paus Ma	ncarr	iet.
Equipment Description:	Equipment	t #:
	<u>Yes</u>	No
Drain all oils/fluids/fuel		***************************************
Remove all filters		
Remove all residual oil/grease		
Tradesman Signature:		
Supervisor's Signature Serge		

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Jun 29/08.

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: To 4 6+4	Equipment	#:749
	Yes	No
Drain all oils/fluids/fuel	V	
Remove all filters	V	
Remove all residual oil/grease	/	
Tradesman Signature: De nu-) Supervisor's Signature		
Supervisor a Signature		
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OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: +6 40+A	Equipment #:695
Dunia all'aila/fluida/flual	Yes No
Drain all oils/fluids/fuel Remove all filters	V
Remove all residual oil/grease	
Tradesman Signature: Jose Bosse	
Supervisor's Signature Surgo	
	July 490

John Knap

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: ToyoTA	Equipment	#: 738
	<u>Yes</u>	No
Drain all oils/fluids/fuel		
Remove all filters	<u> </u>	-
Remove all residual oil/grease		A
Tradesman Signature: , Hawking.		
Supervisor's SignatureSerge		

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- 15/2 /28

OUNT MARY

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Descriptions DUX SARBARM Equipment #: 153

	Yes	No
Drain all oils/fluids/fuel	/	war z
Remove all filters	/	
Remove all residual oil/grease	/	
Tradesman Signature:		7
	U	100 m/000

POLARIS RECLAMATION PROJECT OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: Paus / Fling	ger Equipme	nt #:
Drain all oils/fluids/fuel Remove all filters Remove all residual oil/grease	Yes	No
Tradesman Signature: Supervisor's Signature		
		Too and as
TO BE GIVEN TO JOHN KNAPP FOR FILING		1-

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: ST 8 A Rear Frame	Equipment #: 102
Drain all oils/fluids/fuel	Yes No
Remove all filters	
Remove all residual oil/grease	
Tradesman Signature:	
Supervisor's Signature	77

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Ital Amalas

OBSOLETE EQUIPMENT TO BE BURIED

John Knapp

Equipment Description: FORD F250	Equipment	#:]33
	<u>Yes</u>	No
Drain all oils/fluids/fuel	· ·	
Remove all filters		
Remove all residual oil/grease		
Tradesman Signature:	er er	
Supervisor's Signature	79	-

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Tree your 9/98

0

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: PJ 75	Equipment #: <u>66</u>	
Drain all oils/fluids/fuel Remove all filters Remove all residual oil/grease	Yes	<u>No</u>
Tradesman Signature: frage Course Supervisor's Signature	Img	t an

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100 m/98

POLARIS RECLAMATION PROJECT OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: TVYOTA 177-	75	Equipment	#: <u>*7<i>K</i>*/</u>
		Yes	No
Drain all oils/fluids/fuel		3/_	
Remove all filters			
Remove all residual oil/grease		~	
Tradesman Signature: And Constant Supervisor's Signature Serge 6/3/	1	(ma)	

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Post 6/99

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description: DRILL.	Equipment #: 160	
	Yes	No
Drain all oils/fluids/fuel		40.000
Remove all filters		-
Remove all residual oil/grease		
Tradesman Signature:	b.K	1
Supervisor's Signature	2	

OBSOLETE EQUIPMENT TO BE BURIED

Equipment Description:_	104074	Equipme	Equipment #: 650	
		Yes	No	
Drain all oils/fluids/fuel			-	
Remove all filters				
Remove all residual oil/gi	rease			
Tradesman Signature: _	139		regionalis como cuelo repr	
Supervisor's Signature _	Serge	-		

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Adrised by Ron nathbews that this will be doposed of July/Aug in 850-172 via Ramp

11517 Pay 1/97