

APPENDIX 4

UPDATE OF ESTIMATED MINE DECOMMISSIONING, RECLAMATION AND MONITORING COSTS

POLARIS MINE DECOMMISSIONING, RECLAMATION AND MONITORING COST ESTIMATE
4th QUARTER 2003 UPDATE

	BUDGET		DEC 31, 2003 CLAIMED TO DATE		FORECAST FINAL PROJECT COST		COST VARIANCES		COMMENTS
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	
DEMOLITION & RECLAMATION (BARE COSTS)									
MINE EQUIPMENT REMOVAL									
Hazardous Materials Removal	35,845		853		17,613		-18,232		
Mine Refrigeration Plant	145,525		14,281		30,671		-114,854		
Mobile & Mine Equipment	2,919		12,881		46,306		-43,387		
Remove Salvaged Mine Equipment	20,754		3,963		16,153		-4,601		
Misc Sub Contract Costs	45,957		23,297		23,297		-22,660		
	\$	\$ 251,000	\$	\$ 55,395	\$	\$ 134,040	\$	\$ (116,960)	Demolition costs are proving to be less expensive than budget in general for the project
MINE ACCESS SEALING									
Seal Mine Portals	60,000		464		92,384		32,384		
	\$	\$ 60,000	\$	\$ 464	\$	\$ 92,384	\$	\$ 32,384	
CONCENTRATOR BUILDING									
Miscellaneous Materials	22,092				-		-22,092		
Mill Equipment Clean-Up - Fuels	16,398						-16,398		
Mill Equipment Clean-Up	99,900		40,613		40,613		-59,287		
Hazardous Materials Removal	151,117		94,553		102,725		-48,392		
Barge Demolition	608,592		441,028		445,574		-163,018		
Misc Process Equipment Demolition & Removal	197,432		183,317		183,317		-14,115		
Misc Sub Contract Costs	88,469		83,992		88,444		-25		
	\$	\$ 1,184,000	\$	\$ 843,503	\$	\$ 880,673	\$	\$ (323,327)	Demolition has taken less manpower than expected. Effective demolition contractor.
CONCENTRATE STORAGE STRUCTURE & EQUIPMENT									
Concentrate Storage Equipment Clean-Up	26,117		1,905		1,905		-24,212		
Conveyors	67,600		8,421		8,421		-59,179		
Concentrate Storage Structure & Equipment	555,283		224,423		101,034		-454,249		
	\$	\$ 649,000	\$	\$ 234,749	\$	\$ 111,360	\$	\$ (537,640)	Demolition has taken less manpower than expected. Effective demolition contractor.
SHIP LOADER & CONVEYOR									
Conveyors	50,000		24,592		24,592		-25,408		
	\$	\$ 50,000	\$	\$ 24,592	\$	\$ 24,592	\$	\$ (25,408)	
DOCK & SHORELINE									
Dock & Shoreline Reclamation	869,000		288,597		1,013,301		144,301		
	\$	\$ 869,000	\$	\$ 288,597	\$	\$ 1,013,301	\$	\$ 144,301	Handling of contaminated soils is taking more time than expected due to productivity and increased quantities.
THICKENER & TAILINGS LINES									
Hazardous Materials Removal	22,577		16,452		16,452		-6,125		
Tailings Thickener	377,423		93,633		107,179		-270,244		
	\$	\$ 400,000	\$	\$ 110,085	\$	\$ 123,631	\$	\$ (276,369)	Demolition has taken less manpower than expected. Effective demolition contractor.
GARROW LAKE									
Garrow Lake Siphons & Lake Drawdown	120,391		195,965		195,965		75,574		
Dam/Spillway Modifications	95,467		175,411		348,820		253,353		
Escalation Allowance	3,142				-		-3,142		
	\$	\$ 219,000	\$	\$ 371,376	\$	\$ 544,785	\$	\$ 325,785	Design drawings have identified work not included in budget. Siphoning of the lake required more siphons and maintenance than forecast. Initial excavation of dam is more
CRF PLANT STRUCTURE & EQUIPMENT									
CRF Plant Equipment Clean-Up	7,002		1,040		1,040		-5,962		
CRF Plant Equipment Removal	17,533		9,406		9,406		-8,127		
CRF Plant Buildings Demolition	130,455		23,497		23,497		-106,958		
Misc Sub Contract Costs	11,010		46,766		48,990		37,980		
	\$	\$ 166,000	\$	\$ 80,709	\$	\$ 82,933	\$	\$ (83,067)	Demolition has taken less manpower than expected. Effective demolition contractor.
ACCOMMODATION COMPLEX STRUCTURE & EQUIPMENT									
Accommodation Complex Building Demolition	249,000		10,211		210,360		-38,640		
	\$	\$ 249,000	\$	\$ 10,211	\$	\$ 210,360	\$	\$ (38,640)	
FUEL STORAGE & HANDLING EQUIPMENT									
Miscellaneous Materials	3,681		2,531		2,531		-1,150		
Purge & Decommission Fuel Tanks	53,404		293,828		365,149		311,745		
Hazardous Materials Removal	50,645		235,782		277,701		227,056		
Fuel Pumping & Distribution Systems	87,270				156,390		68,120		
	\$	\$ 195,000	\$	\$ 532,141	\$	\$ 801,771	\$	\$ 606,771	Evacuation and cleaning of tanks has cost much more than expected to date. Work being done by a specialized contractor.
BUILDINGS & CONTAINERS									
Miscellaneous Materials	1,323				-		-1,323		
Misc Warehouse / Shipping Equipment	1,221		3,292		3,292		2,071		
Misc Buildings Demolition	250,456		35,398		251,956		1,500		
	\$	\$ 253,000	\$	\$ 38,690	\$	\$ 255,248	\$	\$ 2,248	
MISC CONTRACTOR LABOUR									
Unallocated Labour	133,000		61,059		61,059		-71,941		
	\$	\$ 133,000	\$	\$ 61,059	\$	\$ 61,059	\$	\$ (71,941)	Costs for this code are being experienced in other areas instead of here.
GENERAL SITE GRADING									
Hazardous Materials Removal	44,719		21,622		184,473		139,754		
General Site Grading & Reclamation	7,129		215,760		307,552		300,423		
Escalation Allowance	4,152				-		-4,152		
	\$	\$ 56,000	\$	\$ 237,382	\$	\$ 492,025	\$	\$ 436,025	Ongoing road maintenance is much greater than budgeted. No scope change

POLARIS MINE DECOMMISSIONING, RECLAMATION AND MONITORING COST ESTIMATE
4th QUARTER 2003 UPDATE

	BUDGET		DEC 31, 2003 CLAIMED TO DATE		FORECAST FINAL PROJECT COST		COST VARIANCES		COMMENTS
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	
LANDFILL RECLAMATION Landfill Reclamation	432,000	\$ 432,000	807,804	\$ 807,804	886,544	\$ 886,544	454,544	\$ 454,544	Scope of work has not changed. Underbudgeted unit costs here.
CONTAMINATED SOILS - CLEANUP Metals and Hydrocarbon Contaminated Soils Cleanup & Disposal Hydrocarbon Contaminated Soils (By Polaris) Metals Contaminated Soils (By Polaris) U/G Handling & Disposal Of Contaminated Soils	366,623 13,131 173,605 46,675	\$ 666,023 \$ 13,131 \$ 52,382 \$ 595,000	1,135,061 13,131 52,382 435,455	\$ 1,198,569 \$ 13,131 \$ 52,382 \$ 1,636,029	1,696,023 13,131 52,382 659,993	\$ 1,826,529	1,329,400 13,131 -121,223 611,318	\$ 1,826,529	Volumes of contaminated soils have substantially increased from budget
QUARRIES & MINE SURFACE RECLAMATION (EARTHWORK) Backfill & Re-Contouring	263,000	\$ 263,000	179,158	\$ 179,158	502,127	\$ 502,127	239,127	\$ 239,127	General site contouring is taking more labour than expected. Was a hard item to quantify for budget purposes as it is a subjective item (i.e. no quantities to base
MISC. DEMOLITION & CLEAN-UP Misc Unallocated Clean-Up / Demo	380,000	\$ 380,000	41,483	\$ 41,483	41,405	\$ 41,405	-338,595	\$ (338,595)	Demolition has been proceeding much better than planned.
EQUIPMENT PURCHASE/RENTAL Contractor Equipment Rental Contractor Misc Equipment Purchase Escalation Allowance	5,274,900 719,407 59,693	\$ 5,993,900	3,370,804 432,906	\$ 3,803,710	5,037,766 432,906	\$ 5,470,692	-237,114 -286,501 -59,693	\$ (583,308)	Obtained better unit rates for equipment rental than budgeted and have had to purchase less other equipment than anticipated (i.e. made better use of surplus mine equipment than planned)
MISC. SERVICES & SUPPLIES Misc Purchased Materials / Supplies Escalation Allowance	235,333 19,667	\$ 255,000	166,943	\$ 166,943	166,943	\$ 166,943	-68,390 -19,667	\$ (88,057)	Increased soils quantities are resulting in increase fuel usage
FUEL Fuel Supply Fuel Taxes (Heating & Power Generation) Fuel Taxes (Equipment) Escalation Allowance	3,294,536 68,677 487,343 157,444	\$ 3,949,999	4,216,186 68,677 412,415	\$ 4,697,278	4,216,186 99,727 677,493	\$ 4,993,406	921,650 31,050 210,150 -157,444	\$ 1,005,406	
MAINTENANCE OF EQUIPMENT & FACILITIES Mobile Equip Maintenance Building Maintenance Escalation Allowance	1,296,759 506,923 101,318	\$ 1,905,000	4,590,733 1,519,163	\$ 6,109,896	5,645,832 2,233,674	\$ 7,879,506	4,349,073 1,726,751 -101,318	\$ 5,974,506	Single biggest variance due to a combination of underestimating cost per hour of maintenance plus additional quantity of contaminated soils means equipment is used more and later into the fall which is hard on the equipment.
PRE - PURCHASED EQUIPMENT (BY COMINCO) Construction Equipment - Purchase (By Owner)	541,000	\$ 541,000	541,271	\$ 541,271	541,271	\$ 541,271	271	\$ 271	
CONTRACTOR'S FIELD SUPPORT & SUPPLIES TRANSPORTATION (SHIPPING) Packing & Preparation Shipping Costs Escalation Allowance	85,326 948,661 78,013	\$ 1,112,000	60,035 1,583,252	\$ 1,643,287	70,035 2,343,952	\$ 2,413,987	-15,291 1,395,291 -78,013	\$ 1,301,987	Transportation unit costs are higher than budgeted as well as increased quantities due to additional soils volumes (increased parts / supplies required to be shipped)
CONTRACTOR MOB. DEMOB & SUPERVISION Contractor Mob/Demo Contractor Supervisory/Admin Personnel Safety Services & Supplies Misc Temporary Services / Modifications Escalation Allowance	61,883 2,127,339 36,000 223,824 13,954	\$ 2,463,000	99,888 2,432,983 272,192 930,603	\$ 3,735,766	233,463 3,787,759 356,848 1,359,454	\$ 5,737,524	171,580 1,660,420 320,848 1,135,630 -13,954	\$ 3,274,524	Additional soils quantities require additional manpower and supervision. Contractor is also using more supervisors than would in the south for supervising crews.
MISC. SERVICES & SUPPLIES Communications & TV Escalation Allowance	374,000 31,000	\$ 405,000	105,302	\$ 105,302	196,235	\$ 196,235	-177,765 -31,000	\$ (208,765)	Anticipated higher communication costs than being experienced.
ACCOMMODATIONS Catering Escalation Allowance	1,487,166 122,834	\$ 1,610,000	1,468,033	\$ 1,468,033	2,154,395	\$ 2,154,395	687,229 -122,834	\$ 544,395	Increased manpower levels have increased catering/housekeeping costs.
TRAVEL & PERSONNEL Travel (Airlines & Expenses) Travel Premium - Revised Rotation Schedule Misc Personnel Transport Escalation Allowance	1,552,881 1,072,773 72,274 575,072	\$ 3,273,000	2,691,525 168,527	\$ 2,860,052	4,381,247 246,505	\$ 4,627,752	2,828,366 -1,072,773 174,231 -575,072	\$ 1,354,752	Unit costs for air travel has increase beyond normal escalation rates, poor weather has added to layover costs and increase crew levels has increased the number of passengers travelling.

4th QUARTER 2003 UPDATE

	BUDGET		DEC 31, 2003 CLAIMED TO DATE		FORECAST FINAL PROJECT COST		COST VARIANCES		COMMENTS
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	
CONTRACTOR INDIRECTS									
HO MOB & DEMOB SUPPORT									
Mob & Demob	1,912,000	\$	1,526,300	\$	1,912,376	\$	376	\$	376
CONTRACTOR MANAGEMENT SUPPORT									
Personnel	3,928,932		2,391,496		3,928,932		0		
Safety & First Aid Personnel to Provide Overlap	184,068	\$	111,792	\$	183,644	\$	-424	\$	(424)
OTHER CONTRACTOR INDIRECTS									
Contractor's General Indirects	4,952,000	\$	4,435,584	\$	5,121,490	\$	169,490	\$	169,490
ENGINEERING / PROJECT MANAGEMENT									Contractors offsite costs increasing due to increased work load on site.
ENVIRONMENTAL SITE ASSESSMENT									
Environmental Consultants - Site Assessment	275,787		300,113		318,777		42,990		
Site Assessment - Unallocated	207,874		105,263		191,524		-16,350		
Escalation Allowance	2,339	\$		\$	-	\$	-2,339	\$	24,301
CLOSURE PLAN									
Environmental Consultants - Closure Plan	415,772		372,272		372,272		-43,500		
Escalation Allowance	2,228	\$		\$	-	\$	-2,228	\$	(45,728)
ENGINEERING / SPECIAL CONSULTANTS									
Design Consultants - Dock / Loadout	1,316		1,413		1,413		97		
Design Consultants - Tailings / Garrow Lake	3,520		3,515		-5		-5		
Design Consultants - Dock / Loadout	79,684		65,354		79,994		310		
Design Consultants - Tailings / Garrow Lake	54,760		45,328		45,328		-9,452		
Stewwork & Demolition Procedures - Design Services	18,300		14,465		55,400		37,100		
Escalation Allowance	2,400	\$		\$	-	\$	-2,400	\$	25,650
PROJECT MANAGEMENT CONSULTANT (HO STAFF)									
Project Management - Salaries	411,069		866,433		1,093,738		682,669		
Project Management - Reimb Expenses	100,000		58,182		82,378		-17,622		
Escalation Allowance	31,931	\$		\$	-	\$	-31,931	\$	633,116
CONSTRUCTION MANAGEMENT (FIELD STAFF)									Complexities in dealing with contractor has increase work load of project manager.
Construction Management - Salaries	2,142,878		1,160,877		1,746,990		-395,888		
Escalation Allowance	179,122	\$		\$	-	\$	-179,122	\$	(575,010)
ENVIRONMENTAL TESTING AND SAMPLING									On site environmental personnel have helped reduce personnel requirements here.
Environmental Reclamation Supervision - Staff	337,123		330,866		668,060		330,937		
Escalation Allowance	29,550				-		-29,550		
Environmental Reclamation Supervision - Testing	330,000		103,895		239,060		-90,940		
Additional Sampling and Consultant Services (MMER)	0		165,670		396,192		396,192		
Escalation Allowance	26,327	\$		\$	-	\$	-26,327	\$	580,312
OWNER'S COSTS									Are using higher personnel levels due to increased solid quantities.
SALARIES & EXPENSES									
Teck Cominco HO Proj Mgmt (Staff Lab)	374,631		353,762		563,132		188,501		
Teck Cominco HO Proj Mgmt (Misc Material & Exp)	199,149		136,732		178,333		-20,816		
Escalation Allowance	34,220	\$		\$	-	\$	-34,220	\$	133,465
OVERHEAD / HO SUPPORT									Work loads for proejct personnel have been higher than expected.
Land Leases, Licenses	175,000		96,949		237,603		62,603		
Miscellaneous Permits	45,000		11,118		14,222		-30,778		
Insurance	445,900		91,332		174,310		-271,590		
Property Taxes	495,000		119,705		495,000		0		
Home Office General Admin (Labour & Exp)	722,384		16,150		30,000		-692,384		
Public Relations	74,292		58,718		74,292		0		
Legal	57,540		48,021		68,431		10,891		
Escalation Allowance	168,560				-		-168,560		
Misc Owner's Overhead	6,324	\$	13,882	\$	13,882	\$	7,558	\$	(1,082,260)
GENERAL ADMIN									Home office support has been less than anticipated. Offset somewhat by project management personnel
Closure Management - Polar's Personnel	54,000				-		-54,000		
Escalation Allowance	2,880				-		-2,880		
Closure Wrap Up	5,120	\$	34,327	\$	45,667	\$	40,547	\$	(16,333)

POLARIS MINE DECOMMISSIONING, RECLAMATION AND MONITORING COST ESTIMATE
4th QUARTER 2003 UPDATE

	BUDGET		DEC 31, 2003 CLAIMED TO DATE		FORECAST FINAL PROJECT COST		COST VARIANCES		COMMENTS
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	
POST RECLAMATION COSTS (2005 - 2011)									
SITE MONITORING AND HOLDING COSTS									
Annual Post Closure Environmental Monitoring (2005 to 2011)	510,000		-		510,000		0		
Final Sampling Program, Data Evaluation and Reporting in 2011	160,000		-		160,000		0		
Land Lease/Licence costs from 2005 to 2011	126,000		-		126,000		0		
Property Taxes - 2005 to 2011	70,000		-		70,000		0		
Escalation Allowance	135,000		-		135,000		0		
	\$	1,001,000	\$	-	\$	1,001,000	\$	-	
UNALLOCATED									
Uncoded Forecast Cost Adjustments (Net)	-	\$	(310)	\$	133,272	\$	133,272	\$	133,272
									These costs will be distributed as the job proceeds.
TOTAL DECOMMISSIONING / RECLAMATION & MONITORING COSTS	\$	47,500,000	\$	43,855,492	\$	62,311,705	\$	14,811,705	

APPENDIX 5

RECORD OF DEBRIS PLACED INTO LITTLE RED DOG QUARRY LANDFILL

PLACEMENT OF DEBRIS INTO LRD QUARRY LANDFILL

4th QUARTER, 2003

DRAWING OF WASTE PLACEMENT

Very little debris was placed into Little Red Dog Quarry Landfill (LRDQL) during the quarter. Demolition of the Concentrate Storage Shed and Barge were completed in the previous quarter. The attached drawing indicates the areas where debris was placed to the end of the year. The locations represent the final placement locations and not temporary staging areas. The drawing also includes locations of debris placed prior to the beginning of the quarter where the debris was placed at the same elevation in the quarry.

The drawing represents the Third Lift (L3) of debris in the quarry. This lift is being placed into Bench 6 of Little Red Dog Quarry Landfill ('LRDQL'). The drawing indicates Blue for the debris placed in the 4th Quarter. The red colour is the position at the end of the 3rd Quarter as previously submitted. Each area is dated, for example 'L3 – 2003 – 12' represents Lift 3, for the month of December, 2003.

While there was very little debris placed during the quarter efforts to reduce the sizes of previously placed hull sections resulted in debris being cut off and spread out over the remained of Lift 3.

RECORD OF WASTE SOURCE/VOLUME & TYPE

Following the placement drawings are records from each month showing the source of the debris, where it was hauled to, the quantity and the type of debris. As previously stated, little debris was land filled during the quarter.

VERIFICATION OF HYDROCARBON REMOVAL

There was no equipment that required hydrocarbon removal during the period.

PHOTOGRAPHIC RECORD

As specified in the Closure Plan, a photographic record of debris placement is being maintained. Attached to this appendix are pictures of typical debris being placed in LRDQL. As there was little debris placed into LRDQL during the quarter, fewer pictures were taken than in the previous two quarters. Lack of light prevented pictures from being taken in December.

BORROW

RAMP

Thermistor Pipe
w/ Waste Rock Column

HAUL ROAD INTO PIT

L3-2003-09

L3-2003-12

RAMP

Bench 7 @ 1011.0m

Bench 6 @ 1018.5m

Bench 5 @ 1026.0m

Bench 4 @ 1033.5m

Bench 3 @ 1041.0m

Bench 2 @ 1048.5m

Bench 1 @ 1056.0m

Bench A @ 1063.5m

55
WHLR02032

40
5545



POLARIS PROJECT

teck COMINCO

LRD Quarry – LIFT 03
Demolition Debris Placement

DRAWN BY: TSF SCALE: 1:1,000 DATE: DEC-2003 SHEET #:

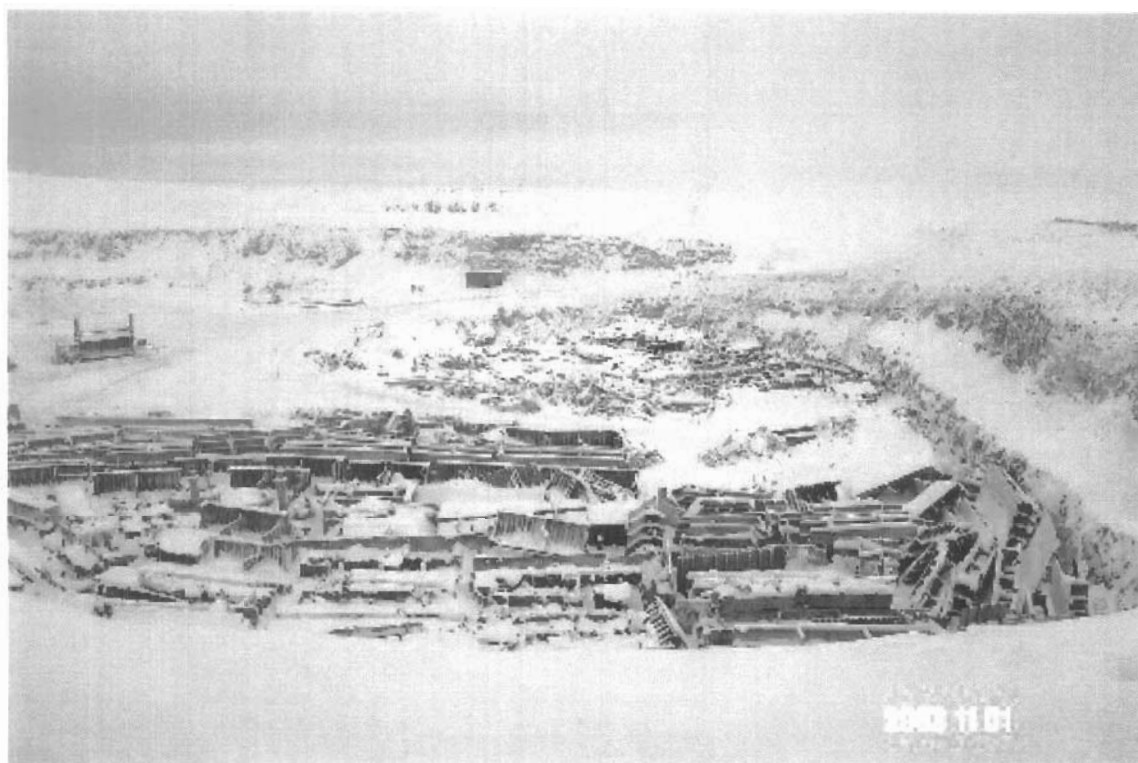
POLARIS MINE DEBRIS DISPOSAL IN LITTLE RED DOG QUARRY LANDFILL - 4th QUARTER 2003

Date	Origin Location	Disposal Location	Material	Quantity (m3)
1-Oct-03	Storage building	L.R.D.	Steel	12
8-Oct-03	Dock	L.R.D.	Steel	30
16-Oct-03	Shoreline	L.R.D.	Steel	15
17-Oct-03	North Portal	L.R.D.	Steel	10
19-Oct-03	Barge	L.R.D.	Steel	13
6-Nov-03	North Portal	L.R.D.	Wood / Wallboard	10
13-Nov-03	Storage building	L.R.D.	Steel	160
15-Nov-03	Burn Pit	L.R.D.	Wood / Wallboard	10











2000 01 02 02:25

APPENDIX 6

RECORD OF PLACEMENT OF METALS / HYDROCARBON CONTAMINATED SOILS UNDERGROUND IN THE MINE

POLARIS MINE

4TH QUARTER, 2003 CONTAMINATED SOILS VOLUMES UPDATE

Due to increasing quantities of contaminated soils being discovered as remedial activities progressed, late in the fall of 2003 TCL directed GLL to conduct additional assessment of remaining soils contamination. This was necessary to confirm project scheduling and to assess whether there was adequate storage capacity within the mine for disposal of the remaining contaminated soils to be remediated. A drilling program was undertaken to obtain this information. In addition, remedial excavations that were underway provided information on zones of contamination as well as confirming boundaries of contamination. GLL also reviewed other existing assessment data in conjunction with the new information collected to update their evaluation of contaminated soils volumes. This review resulted identification of increased quantities of contaminated soils and the submission of TCL's letter to the NWB and INAC (dated December 19, 2003) requesting authorization to store metals contaminated soils in LRDQL, and to store the increased quantities of hydrocarbon contamination into the underground mine workings.

In response to an earlier request to store increased quantities of hydrocarbon contaminated soils in the underground mine workings, approval was received from the NWB and INAC (dated December 23, 2003). The approval contained a requirement to update the following information to the end of the 3rd Quarter, 2003 in a table:

- The original volumes of contaminated materials identified in the DRP
- The quantities of soils disposed of to date.
- The predicted volume of soils yet to be disposed of.
- The volume of the mine workings filled with contaminated soils to date and,
- The usable volume of the mine remaining available.

The two attached tables (Table 1 and Table 2) provide the above requested information. The information was updated to the end of December 2003 to make the information more current.

Table 1 lists the original estimates of quantities of contaminated soils as presented in the Decommissioning and Reclamation Plan (DRP), the volumes excavated to-date, and the forecast volume of contaminated soils remaining to be remediated. The volumes of contaminated soils presented in the DRP were limited to areas where assessments had been completed to a degree that GLL felt they had sufficient information to estimate a quantity. There were a number of areas where contaminated soils were known to exist but assessments had not been completed (i.e. sufficiently to propose the quantities) at the time the DRP was issued. This information was contained in the DRP. In Table 1 these areas are noted as 'TBA'. All of the volumes listed in Table 1 are 'in-situ' volumes. The forecast volumes of contaminated soils remaining to be excavated are considered to be

'conservative' values and TCL expects that actual volumes will be less than the quantities presented. As TCL has had to request increases in the volumes authorized previously, TCL wanted to ensure that current forecasts represent the 'worst case' and that the likelihood of exceeding these volumes was remote.

Table 2 presents the forecast volumes of soils to be remediated in both 'in-situ' volumess and in 'loose' volumes. The volumes to be disposed of are best represented as 'loose' volumes when comparing them to the available volume remaining in the underground mine workings. It should also be noted that the total space available in the mine was reduced by 25% to reflect that full utilization of the space is not practical.

TABLE 1
POLARIS MINE - CONTAMINATED SOILS QUARTERLY FORECAST
AS OF DECEMBER 31, 2003

Contaminated Soil Locations	DRP Forecast Volumes To Be Excavated (m ³ in-situ volume)		³ Estimated Volumes Excavated To Date (m ³ in-situ volume)		Forecast Volumes Remaining To Be Excavated (m ³ in-situ volume)		⁴ Total Volumes Contaminated Soils (m ³ in-situ volume)	
	Hydrocarbons	Metals	Hydrocarbons	Metals	Hydrocarbons	Metals	Hydrocarbons	Metals
Acommodations Complex	500	-	-	-	2,400	-	2,400	-
Concentrat Storage Shed Area	Note 1	Note 1	-	24,314	-	17,000	-	41,314
East of Concentrate Shed	-	-	-	34,038	-	5,000	-	39,038
Foldaways and Lube Storage Pad	2,000	-	-	-	25,000	2,000	25,000	2,000
Snow Dumps	-	3,500	-	3,541	-	10,000	-	13,541
Firehall Area	2,000	-	1,485	-	5,000	5,000	6,485	5,000
⁵ Dock Cells	-	-	12,210	-	200	-	12,410	-
North Shore and Barge Area	20,000	85,000	28,314	30,827	45,000	5,000	73,314	35,827
CRF Plant Area	100	-	40	-	-	-	40	-
Exploration Stockpile Area		TBA	-	11,028	-	-	-	11,028
Fuel Bladder Storage Area	12,000	-	12,513	-	-	-	12,513	-
June 2002 Fuel Spill	Note 2	-	4,080	-	-	-	4,080	-
Old Crusher	-	TBA	-	1,079	-	-	-	1,079
North Portal Pb Ore Storage Area	-	TBA	-	11,352	-	-	-	11,352
Quonset Huts	TBA	-	-	-	-	-	-	-
Tails Thickener Area / Tailings Lines	TBA	3,000	-	2,183	-	-	-	2,183
Miscellaneous	-	-	628	110	-	-	628	110
TOTALS	36,600	91,500	59,270	118,472	77,600	44,000	136,870	162,472
TOTAL CONTAMINANTS		128,100		177,742		121,600		299,342

Notes:

Note 1 - DRP estimated metals contaminated soils in the Concentrate Storage Area and the Barge area together as one quantity.

Note 2 - this fuel spill occurred after the DRP was issued so there was not estimate for it.

Note 3 - the term 'Estimated' is used because until work is completed in an area, data is based on truck counts' which is based on truck drivers correctly reporting the number of loads and assumptions on average load capacities are required. Once work in an area has been completed, a detailed survey is conducted to accurately determine final volumes excavated.

Note 4 - Forecast volumes estimated are based on 'worst' case estimates rather than on a 'most' likely basis to be conservative for planning purposes.

Note 5 - Metals contaminated soils removed from the dock were recorded with soils from the 'North Shore and Barge Area' volumes.

Abbreviations:

DRP - Decommissioning and Reclamation Plan

TBA - Areas identified in the DRP as being contaminated but no estimate of volumes were made as investigations were not complete.

LRDQL - Little Red Dog Quarry Landfill

TABLE 2
POLARIS MINE - CONTAMINATED SOILS FORECAST AS OF DECEMBER 31, 2003

Date	Forecast Volume Remaining To Be Excavated (m ³ in-situ volume)		Forecast Volumes Remaining To Be Excavated ¹ (m ³ loose volume)		Temporary Stockpiles To Be Disposed (m ³ loose volume)	DISPOSAL VOLUMES (m ³ loose volume)			
						LRDQL		UNDERGROUND	
	Hydrocarbons	Metals	Hydrocarbons	Metals	Metals	USED	² REMAINING	USED	³ REMAINING
31-Dec-03	77,600	44,000	93,120	52,800	30,000	-	215,000	177,290	128,000

Notes:

- 1 - Used 20% swell factor from in-situ volume to loose volume
- 2 - Approximate space remaining to fill LRDQL to the top of Bench 5. If required additional volume is available in LRDQL
- 3 - Used 75% of void space available in mine to adjust for filling efficiencies