

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

Prepared for the
Alberta Department of the Environment

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Volume III – Yearly Cost Summaries

Prepared Jointly by

Techman Ltd.

and

Rheinbraun – Consulting GmbH

OIL SAND RECLAMATION
A STUDY INTEGRATING MINING,
TAILINGS DISPOSAL AND RECLAMATION
VOLUME III - YEARLY COST SUMMARIES

Prepared for:

ALBERTA DEPARTMENT OF THE ENVIRONMENT

Prepared Jointly by:

TECHMAN LTD.

&

RHEINBRAUN - CONSULTING GmbH

JULY, 1979

VOLUME III - YEARLY COST SUMMARIES

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VOLUME III - YEARLY COST SUMMARIES

INTRODUCTION

Volume III of the report contains yearly cost summaries for the 12 mine plans analyzed in the study.

The activities in each mine are grouped into 6 cost centres, which are further divided into cost sub-centres. The division into sub-centres is required to allow as accurate costing as possible and is not intended to break the costs into sub-centres of similar value. For a detailed description of the sub-centres refer to Chapter 6 of Volume I.

It is of utmost importance that the descriptions of the cost sub-centres be carefully studied before a cost comparison to existing operations is attempted, as various costs may be allocated several different ways. For example, in many schemes in this study, costs of muskeg rehandling and hauling to reclamation sites for use in prepared soil manufacture may appear low at first glance, but one must remember that a considerable amount of muskeg is hauled to the reclamation site as part of muskeg removal from the mine. This direct haul from muskeg prestripping face to the reclamation site was opted for whenever possible, and since the muskeg had to be removed from the mine in any case, it was included as part of the mining costs, rather than reclamation costs. It would be difficult and unnecessarily complicated to assign part of the haul to mining and part to reclamation; therefore the whole hauling cycle of directly deposited muskeg was left in Cost Centre 2 - Removal of Organic Materials and Soils, where all muskeg removal from mine and plant site is costed.

The operating and capital costs for 35 years are shown, including five years of preproduction activities and five years of deactivation. The mine starts supplying oil sands to the extraction plant in the beginning of Year 1. The print-out shows 10 lines for each sub-centre. The first 5 lines summarize operating cost: Quantity 1, Quantity 2, Unit Price 1, Additional Cost and Operating Cost.

Quantity 1: The first variable used to determine operating cost (for example, the area of forest and bush clearing or volume of overburden excavated, etc.) It also shows the units in which the yearly figures are expressed (BCM = bank cubic metres; CUM = cubic metres; LCM = loose cubic metres).

Quantity 2: The second variable is used to determine operating cost. It is applicable only to cost sub-centres involving transport of materials, where Quantity 2 is hauling distance and Quantity 1 is volume of materials transported.

Unit Price 1: This is the operating unit cost by which Quantity 1 (or product of Quantity 1 and Quantity 2) is multiplied to arrive at the basic operating cost.

Additional Cost: Yearly operating cost, which is independent of Quantity 1 and 2. It is added to the basic operating cost calculated above.

Operating Cost: The sum of the basic operating cost and the additional cost.

The next 4 lines summarize capital cost: Quantity 3, Unit Price 2, Additional Cost and Capital Cost.

Quantity 3: The variable used to determine capital cost (for example the length of yearly conveyor extensions).

Unit Price 2: The unit capital cost by which Quantity 3 is multiplied to arrive at the basic capital cost.

Additional Cost: Yearly capital cost, which is independent of Quantity 3. It is added to the basic capital cost calculated from Quantity 3 and Unit Price 2.

Capital Cost: The sum of the basic capital cost and the additional capital cost.

The tenth line shows the Subtotal, which is the sum of operating and capital costs for each cost sub-centre. After Year 30 the total is given for each of the quantities, average unit prices, and total costs. Following each cost centre is a summary of annual operating capital costs as well as the cost centre total. At the end of each print-out there is an overall yearly summary for each cost centre followed by a present value cost analysis. The present value cost analysis gives the sum of yearly operating and capital costs discounted at a rate of 10% each year between the date of occurrence and the beginning of the project.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

7.0

120,000 BPCD

Dragline Mine

Minimum Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00
OPERATING COST \$*1,000	0.	0.	0.	1097.	1097.	1097.	1097.	1097.	1097.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	10894.00	10895.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	10894.	10895.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	10894.	10895.	1097.	1097.	1097.	1097.	1097.	1097.

1.2 BUILDINGS

NO. OF PERSONS PERSONS	0.	0.	0.	117.00	177.00	234.00	234.00	234.00	234.00
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON	0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	117.	177.	234.	234.	234.	234.
NO. OF PERSONS PERSONS	0.	0.	117.00	0.	117.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON	0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	1755.	0.	1755.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	1755.	117.	1932.	234.	234.	234.	234.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	0.	0.	0.	1214.	1274.	1331.	1331.	1331.	1331.
TOTAL CAPITAL COST \$*1,000	0.	10894.	12650.	0.	1755.	0.	0.	0.	0.
TOTAL COST \$*1,000	0.	10894.	12650.	1214.	3029.	1331.	1331.	1331.	1331.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00
OPERATING COST \$*1,000		1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00
OPERATING COST \$*1,000		1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	234.	234.	234.	234.	234.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1097.00	1097.00	329.00	0.	0.	0.	0.	0.	28851.00
OPERATING COST \$*1,000		1097.	1097.	329.	0.	0.	0.	0.	0.	28851.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21789.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21789.
SUBTOTAL	\$*1,000	1097.	1097.	329.	0.	0.	0.	0.	0.	50640.
1.2 BUILDINGS										
NO. OF PERSONS	PERSONS	234.00	234.00	234.00	41.00	41.00	41.00	41.00	41.00	6349.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	41.	41.	41.	41.	41.	6349.
NO. OF PERSONS	PERSONS	0.	0.	0.	0.	0.	0.	0.	0.	234.00
UNIT PRICE 2	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3510.
SUBTOTAL	\$*1,000	234.	234.	234.	41.	41.	41.	41.	41.	9859.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	1331.	1331.	563.	41.	41.	41.	41.	41.	35200.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	25299.
TOTAL COST	\$*1,000	1331.	1331.	563.	41.	41.	41.	41.	41.	60499.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING											
AREA	HECTARES		870.36	155.78	441.92	86.43	181.55	81.22	84.63	85.30	105.30
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		1103.	197.	560.	109.	230.	103.	107.	108.	133.
AREA	HECTARES		870.36	155.78	441.92	86.43	181.55	81.22	84.63	85.30	105.30
UNIT PRICE 2	\$/HECTARE		196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		171.	31.	87.	17.	36.	16.	17.	17.	21.
SUBTOTAL	\$/1000		1274.	228.	647.	127.	266.	119.	124.	125.	154.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		247.10	53.20	64.60	33.50	22.50	18.30	8.50	7.20	11.30
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		457.	98.	120.	62.	42.	34.	16.	13.	21.
DITCH VOLUME	1000 BCM		247.10	53.20	64.60	33.50	22.50	18.30	8.50	7.20	11.30
UNIT PRICE 2	\$/1000 BCM		300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		74.	16.	19.	10.	7.	5.	3.	2.	3.
SUBTOTAL	\$/1000		531.	114.	139.	72.	48.	39.	18.	15.	24.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		1343.	1310.	1268.	911.	1145.	595.	416.	324.	126.
VOLUME	1000 BCM		1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
UNIT PRICE 2	\$/1000 BCM		207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		327.	319.	308.	221.	278.	145.	101.	79.	31.
SUBTOTAL	\$/1000		1670.	1629.	1577.	1132.	1424.	740.	518.	403.	157.

	YEAR	-2	-4	-3	-2	-1	1	2	3	4
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
HAUL DISTANCE	KM	1.50	1.40	1.90	2.00	3.20	3.20	3.50	3.60	2.70
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	613.	540.	710.	537.	1079.	561.	429.	344.	100.
VOLUME*DISTANCE	1000 BCM*KM	2414.00	2154.00	2829.00	2140.00	4340.00	2236.00	1711.00	1370.00	399.90
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	118.	105.	138.	104.	211.	109.	83.	67.	19.
SUBTOTAL	\$/1,000	731.	645.	848.	641.	1291.	670.	513.	410.	120.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	756.	738.	714.	513.	645.	335.	234.	182.	71.
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	55.	53.	52.	37.	47.	24.	17.	13.	5.
SUBTOTAL	\$/1,000	811.	791.	766.	550.	691.	359.	251.	196.	76.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	4.30	7.50	2.50	5.00	6.60	1.10	4.50	0.80	3.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	145.	254.	85.	169.	223.	37.	152.	27.	115.
LENGTH	KM	4.30	7.50	2.50	5.00	6.60	1.10	4.50	0.80	3.40
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	30.	52.	17.	35.	46.	8.	31.	6.	24.
SUBTOTAL	\$/1,000	175.	306.	102.	204.	269.	45.	183.	33.	139.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	4418.	3137.	3456.	2301.	3364.	1665.	1355.	999.	567.
TOTAL CAPITAL COST	\$/1,000	774.	575.	621.	424.	624.	307.	252.	183.	103.
TOTAL COST	\$/1,000	5192.	3713.	4078.	2726.	3989.	1972.	1607.	1182.	670.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

2.1 CLEARING

AREA	HECTARES	198.17	239.61	124.87	123.26	150.11	186.00	50.75	53.08	157.92
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	251.	304.	158.	156.	190.	236.	64.	67.	200.
AREA	HECTARES	198.17	239.61	124.87	123.26	150.11	186.00	50.75	53.08	157.92
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	39.	47.	25.	24.	30.	37.	10.	10.	31.
SUBTOTAL	\$*1,000	290.	351.	183.	180.	220.	272.	74.	78.	231.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	19.50	59.20	62.40	46.90	44.60	79.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	36.	110.	115.	87.	83.	146.	0.	0.	0.
DITCH VOLUME	1000 BCM	19.50	59.20	62.40	46.90	44.60	79.00	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	6.	18.	19.	14.	13.	24.	0.	0.	0.
SUBTOTAL	\$*1,000	42.	127.	134.	101.	96.	170.	0.	0.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	77.	120.	208.	663.	1067.	831.	792.	1401.	0.
VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	19.	29.	51.	161.	260.	202.	193.	341.	0.
SUBTOTAL	\$*1,000	95.	149.	258.	824.	1327.	1033.	984.	1741.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 RWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
HAUL DISTANCE	KM	1.20	1.20	1.00	1.40	1.20	1.00	2.10	5.00	0.
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	27.	42.	61.	274.	377.	245.	490.	2063.	0.
VOLUME*DISTANCE	1000 BCM*KM	108.00	168.80	244.20	1091.00	1505.00	976.00	1953.00	8225.00	0.
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5.	8.	12.	53.	73.	48.	95.	401.	0.
SUBTOTAL	\$/1,000	32.	51.	73.	327.	451.	292.	585.	2463.	0.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	43.	67.	117.	373.	601.	468.	446.	789.	0.
VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	5.	8.	27.	43.	34.	32.	57.	0.
SUBTOTAL	\$/1,000	46.	72.	126.	400.	644.	502.	478.	846.	0.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	0.70	1.20	1.60	2.30	4.00	3.20	2.60	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	24.	41.	54.	78.	135.	108.	88.	0.	0.
LENGTH	KM	0.70	1.20	1.60	2.30	4.00	3.20	2.60	0.	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5.	8.	11.	16.	28.	22.	18.	0.	0.
SUBTOTAL	\$/1,000	29.	49.	65.	94.	163.	130.	106.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	458.	683.	714.	1631.	2454.	2034.	1880.	4319.	200.
TOTAL CAPITAL COST	\$/1,000	77.	115.	125.	296.	447.	366.	348.	808.	31.
TOTAL COST	\$/1,000	534.	799.	839.	1927.	2901.	2399.	2227.	5128.	231.

YEAR 14 15 16 17 18 19 20 21 22

2.1 CLEARING

AREA	HECTARES	117.00	115.34	64.28	42.31	33.47	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.84	1266.82	1266.82	1266.82	1266.82	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	148.	146.	81.	54.	42.	0.	0.	0.	0.
AREA	HECTARES	117.00	115.34	64.28	42.31	33.47	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	23.	23.	13.	8.	7.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	171.	169.	94.	62.	49.	0.	0.	0.	0.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	0.	0.	20.30	47.60	47.00	25.10	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	1850.00	1850.00	1850.00	1850.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	38.	88.	87.	46.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	20.30	47.60	47.00	25.10	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	300.00	300.00	300.00	300.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	6.	14.	14.	8.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	44.	102.	101.	54.	0.	0.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	851.40	851.40	851.40	851.40	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	304.	651.	631.	417.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	207.00	207.00	207.00	207.00	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	74.	158.	153.	101.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	378.	809.	784.	519.	0.

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	1.20	2.10	3.00	2.60	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	250.80	250.80	250.80	250.80	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	108.	403.	558.	320.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	429.00	1605.00	2223.00	1274.00	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	48.70	48.70	48.70	48.70	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	21.	78.	108.	62.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	128.	481.	666.	382.	0.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	479.40	479.40	479.40	479.40	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	171.	367.	355.	235.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	34.60	34.60	34.60	34.60	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	12.	26.	26.	17.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	184.	393.	381.	252.	0.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	2.50	4.40	5.30	0.80	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	85.	149.	179.	27.	0.
LENGTH	KM	0.	0.	0.	0.	2.50	4.40	5.30	0.80	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	17.	30.	37.	6.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	102.	179.	216.	33.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	148.	146.	119.	142.	797.	1615.	1723.	999.	0.
TOTAL CAPITAL COST	\$/1000	23.	23.	19.	23.	145.	301.	324.	186.	0.
TOTAL COST	\$/1000	171.	169.	138.	164.	943.	1916.	2047.	1185.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	3748.72
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	4749.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	3748.72
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	738.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	5487.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	917.80
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1698.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	917.80
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	275.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1973.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	17149.30
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	14601.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	17149.30
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	3550.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	18151.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
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 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	17149.30
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	2.30
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	9880.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	39395.90
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	1919.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	11798.
2.5 MUSKEG PLACEMENT											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	17149.30
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	8221.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	17149.30
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	593.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	8815.
2.6 MUSKEG ROAD CONSTRUCTION											
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	64.30
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	2175.
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	64.30
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	445.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	2620.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	41324.
TOTAL CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	7520.
TOTAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	48844.

	YEAR	-2	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	2515.	2515.	2515.	2515.	2515.	2515.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	6708.00	6708.00	6708.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	6708.	6708.	6708.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6708.	6708.	6708.	2515.	2515.	2515.	2515.	2515.	2515.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	36833.00	43050.00	49617.00	50556.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	7421.	8673.	9996.	10185.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	57236.00	57236.00	57236.00	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	57236.	57236.	57236.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	57236.	57236.	57236.	7421.	8673.	9996.	10185.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	49088.00	24220.00	60516.00	60606.00
DISTANCE	M	0.	0.	0.	5100.00	6070.00	23280.00	24800.00	26310.00	28500.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	853.	1015.	13511.	15898.	18824.	20422.
CONV. INCREASE	M	0.	0.	0.	5100.00	970.00	17210.00	1520.00	1510.00	2190.00
UNIT PRICE 2	\$/M	0.	0.	0.	3961.03	3961.03	3961.03	3586.43	3586.43	3586.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	20201.	3842.	68169.	5451.	5416.	7854.
SUBTOTAL	\$/1,000	0.	0.	0.	21054.	4858.	81680.	21349.	24240.	28276.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	17718.00	16181.00	17168.00	18835.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	103.48	103.48	103.48	103.48	103.48	103.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1464.	1464.	1833.	1674.	1777.	1949.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5510.00	5510.00	5510.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5510.	5510.	5510.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	5510.	5510.	5510.	1464.	1464.	1833.	1674.	1777.	1949.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00
OPERATING COST	\$/1,000	0.	0.	0.	6114.	6114.	6114.	6114.	6114.	6114.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	11714.00	0.	0.	0.	0.	5723.00
CAPITAL COST	\$/1,000	0.	0.	0.	11714.	0.	0.	0.	0.	5723.
SUBTOTAL	\$/1,000	0.	0.	0.	17828.	6114.	6114.	6114.	6114.	11837.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	10946.	11108.	31394.	34874.	39226.	41185.
TOTAL CAPITAL COST	\$/1,000	12218.	12218.	69454.	89151.	61078.	68169.	5451.	5416.	13577.
TOTAL COST	\$/1,000	12218.	12218.	69454.	100097.	72187.	99563.	40325.	44641.	54762.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	52709.00	53591.00	51948.00	49041.00	45862.00	46311.00	43622.00	39810.00	51478.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10619.	10797.	10466.	9880.	9240.	9330.	8788.	8020.	10371.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10619.	10797.	10466.	9880.	9240.	9330.	8788.	8020.	10371.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	60395.00	59192.00	58479.00	58991.00	57142.00	56428.00	22270.00	52281.00	61462.00
DISTANCE	M	29750.00	23920.00	24200.00	24530.00	21470.00	26100.00	29370.00	33470.00	35210.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	21243.	16740.	16732.	17108.	14505.	17413.	18150.	20688.	25586.
CONV. INCREASE	M	1250.00	0.	0.	0.	0.	0.	0.	3720.00	1740.00
UNIT PRICE 2	\$/M	3586.43	0.	0.	0.	0.	0.	0.	4735.90	4735.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4483.	0.	0.	0.	0.	0.	0.	17618.	8240.
SUBTOTAL	\$/1,000	25726.	16740.	16732.	17108.	14505.	17413.	18150.	38306.	33826.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	21512.00	21469.00	18611.00	16389.00	16669.00	18990.00	16024.00	15901.00	21555.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2226.	2222.	1926.	1696.	1725.	1965.	1658.	1645.	2231.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2226.	2222.	1926.	1696.	1725.	1965.	1658.	1645.	2231.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00
OPERATING COST	\$/1,000	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	723.00	0.	0.	5723.00	0.	0.	0.	723.00
CAPITAL COST	\$/1,000	0.	723.	0.	0.	5723.	0.	0.	0.	723.
SUBTOTAL	\$/1,000	6114.	6837.	6114.	6114.	11837.	6114.	6114.	6114.	6837.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	42717.	38387.	37752.	37313.	34098.	37336.	37225.	38983.	46816.
TOTAL CAPITAL COST	\$/1,000	4483.	723.	0.	0.	5723.	0.	0.	17618.	8963.
TOTAL COST	\$/1,000	47200.	39110.	37752.	37313.	39821.	37336.	37225.	56600.	55780.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	12750.00	7250.00	7250.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2266.	1288.	1288.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2266.	1288.	1288.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	52958.00	48535.00	52959.00	57300.00	47892.00	39722.00	45086.00	53549.00	53525.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10669.	9778.	10669.	11544.	9649.	8003.	9083.	10788.	10783.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10669.	9778.	10669.	11544.	9649.	8003.	9083.	10788.	10783.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	58794.00	58256.00	62828.00	67548.00	57702.00	50684.00	54627.00	56680.00	57647.00
DISTANCE	M	21470.00	23710.00	27390.00	32570.00	29260.00	28120.00	30270.00	35930.00	38840.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14924.	16331.	20346.	26011.	19961.	16851.	19550.	24078.	26472.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	720.00	2910.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	4735.90	4735.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	3410.	13781.
SUBTOTAL	\$/1,000	14924.	16331.	20346.	26011.	19961.	16851.	19550.	27488.	40253.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	18475.00	17308.00	17454.00	17108.00	17250.00	16377.00	15928.00	9980.00	8221.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1912.	1791.	1806.	1770.	1785.	1695.	1648.	1033.	851.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1912.	1791.	1806.	1770.	1785.	1695.	1648.	1033.	851.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00
OPERATING COST	\$/1,000	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	7241.00	0.	0.	0.	0.	5723.00	723.00	0.	0.
CAPITAL COST	\$/1,000	7241.	0.	0.	0.	0.	5723.	723.	0.	0.
SUBTOTAL	\$/1,000	13355.	6114.	6114.	6114.	6114.	11837.	6837.	6114.	6114.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	36134.	36528.	41450.	47954.	40024.	35177.	38661.	43301.	45508.
TOTAL CAPITAL COST	\$/1,000	7241.	0.	0.	0.	0.	5723.	723.	3410.	13781.
TOTAL COST	\$/1,000	43375.	36528.	41450.	47954.	40024.	40900.	39384.	46711.	59290.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, PEJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		7250.00	2188.00	0.	0.	0.	0.	0.	0.	333838.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		177.72	177.72	0.	0.	0.	0.	0.	0.	177.72
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		1288.	389.	0.	0.	0.	0.	0.	0.	59330.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	20124.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	20124.
SUBTOTAL	\$/1,000		1288.	389.	0.	0.	0.	0.	0.	0.	79454.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		47367.00	42092.00	6652.00	0.	0.	0.	0.	0.	1162065.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		201.46	201.46	201.46	0.	0.	0.	0.	0.	201.46
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		9543.	8480.	1340.	0.	0.	0.	0.	0.	234114.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	171708.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	171708.
SUBTOTAL	\$/1,000		9543.	8480.	1340.	0.	0.	0.	0.	0.	405822.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY #0.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	53593.00	43404.00	6313.00	0.	0.	0.	0.	0.	1397446.00
DISTANCE	M	40610.00	35200.00	17590.00	0.	0.	0.	0.	0.	28345.21
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.	0.	0.	0.	0.	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	25732.	18063.	1313.	0.	0.	0.	0.	0.	468320.
CONV. INCREASE	M	1770.00	0.	0.	0.	0.	0.	0.	0.	40610.00
UNIT PRICE 2	\$/M	4735.90	0.	0.	0.	0.	0.	0.	0.	4108.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8383.	0.	0.	0.	0.	0.	0.	0.	166849.
SUBTOTAL	\$/1,000	34114.	18063.	1313.	0.	0.	0.	0.	0.	635169.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	7782.00	2720.00	0.	0.	0.	0.	0.	0.	413925.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	103.48	103.48	0.	0.	0.	0.	0.	0.	103.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	805.	281.	0.	0.	0.	0.	0.	0.	42833.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.
SUBTOTAL	\$/1,000	805.	281.	0.	0.	0.	0.	0.	0.	59363.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6114.00	6114.00	1834.00	0.	0.	0.	0.	0.	160798.00
OPERATING COST	\$/1,000	6114.	6114.	1834.	0.	0.	0.	0.	0.	160798.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	38293.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	38293.
SUBTOTAL	\$/1,000	6114.	6114.	1834.	0.	0.	0.	0.	0.	199091.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	43482.	33328.	4487.	0.	0.	0.	0.	0.	965395.
TOTAL CAPITAL COST	\$/1,000	8383.	0.	0.	0.	0.	0.	0.	0.	413504.
TOTAL COST	\$/1,000	51865.	33328.	4487.	0.	0.	0.	0.	0.	1378898.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE										
DIITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	202.	0.	0.	0.	0.	0.	0.	0.
DIITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	49.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	251.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	1375.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	1266.82	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	1742.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	1375.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	196.85	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	271.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	2013.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OR DAMS										
VOLUME	1000 BCM	0.	0.	0.	10910.00	10910.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-2	-4	-3	-2	-1	1	2	3	4
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	71037.00	86141.00	98163.00	94590.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	88.79	88.79	88.79	88.79
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	6307.	7648.	8716.	8399.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	11244.00	11244.00	11244.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	11244.	11244.	11244.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	11244.	11244.	11244.	6307.	7648.	8716.	8399.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	15000.00	11500.00	11000.00	7700.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	1853.	1421.	1359.	951.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	7791.00	4709.00	2707.00	2518.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	7791.	4709.	2707.	2518.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	9644.	6130.	4066.	3469.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	16922.00	27209.00	33111.00	34806.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.89	67.89	67.89	67.89
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	1149.	1847.	2248.	2363.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	1149.	1847.	2248.	2363.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	944.25	1259.00	1259.00
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	944.	1259.	1259.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	2767.00	2767.00	2767.00	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	2767.	2767.	2767.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	2767.	2767.	2767.	944.	1259.	1259.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY #0.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -2 -4 -3 -2 -1 1 2 3 4

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	8.90	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	25000.00	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	35.00	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	258.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	258.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		0.	0.	0.	0.	0.	1788.00	2168.00	2471.00	2381.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1066.63	1066.63	1066.63	1066.63
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	1907.	2312.	2636.	2540.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	1788.00	2168.00	2471.00	2381.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	191.69	191.69	191.69	191.69
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	343.	416.	474.	456.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	2250.	2728.	3109.	2996.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	3.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	33825.11	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	101.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	3.00	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	6915.90	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	21.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	122.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		0.	1944.	0.	21275.	21376.	11217.	14173.	16218.	15512.
TOTAL CAPITAL COST \$*1,000		0.	320.	11244.	14011.	14032.	11158.	5125.	3181.	2974.
TOTAL COST \$*1,000		0.	2264.	11244.	35286.	35408.	22375.	19298.	19399.	18486.

	YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CIR. 3.4)

VOLUME	1000 CUM	88052.00	85424.00	90281.00	96471.00	91931.00	84778.00	82078.00	82382.00	90370.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	88.79	88.79	88.79	88.79	88.79	88.79	88.79	88.79	88.79
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7818.	7585.	8016.	8566.	8163.	7527.	7288.	7315.	8024.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	7818.	7585.	8016.	8566.	8163.	7527.	7288.	7315.	8024.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	9100.00	6200.00	4500.00	2800.00	4820.00	14590.00	14590.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1124.	766.	556.	346.	596.	1803.	1803.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	2300.00	2231.75	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2300.	2232.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3424.	2998.	556.	346.	596.	1803.	1803.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	30468.00	32187.00	36070.00	40551.00	36365.00	23507.00	22293.00	37020.00	40610.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2068.	2185.	2449.	2753.	2469.	1596.	1513.	2513.	2757.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2068.	2185.	2449.	2753.	2469.	1596.	1513.	2513.	2757.

YEAR 5 6 7 8 9 10 11 12 13

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1259.00	1259.00	1259.00	1259.00	1452.00	1452.00	1452.00	1452.00	1452.00
OPERATING COST \$*1,000		1259.	1259.	1259.	1259.	1452.	1452.	1452.	1452.	1452.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	1524.00	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	1524.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		1259.	1259.	1259.	2783.	1452.	1452.	1452.	1452.	1452.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	39747.00	39277.00	39330.00	40720.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	36.45	36.45	36.45	36.45
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	1449.	1432.	1434.	1484.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	3234.00	3234.00	3234.00	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	3234.	3234.	3234.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	3234.	3234.	3234.	1449.	1432.	1434.	1484.

4.9 SLUDGE TREATMENT

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	157.50	0.	0.	0.	0.	
CAPITAL COST \$*1,000		0.	0.	0.	0.	158.	0.	0.	0.	0.	
SUBTOTAL \$*1,000		0.	0.	0.	0.	158.	0.	0.	0.	0.	

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		2216.00	2150.00	2272.00	2428.00	2307.00	2134.00	2066.00	2074.00	2275.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2364.	2293.	2423.	2590.	2461.	2276.	2204.	2212.	2427.
VOLUME 1000 LCM		2216.00	2150.00	2272.00	2428.00	2307.00	2134.00	2066.00	2074.00	2275.00
UNIT PRICE 2 \$/1000 LCM		191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		425.	412.	436.	465.	442.	409.	396.	398.	436.
SUBTOTAL \$*1,000		2788.	2705.	2859.	3055.	2903.	2685.	2600.	2610.	2863.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		14634.	14088.	14703.	15513.	15140.	16103.	15691.	14926.	16144.
TOTAL CAPITAL COST \$*1,000		2725.	2644.	3670.	5223.	3834.	409.	396.	398.	436.
TOTAL COST \$*1,000		17358.	16732.	18373.	20737.	18973.	16512.	16087.	15323.	16580.

		YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	91301.00	92728.00	102751.00	114221.00	91603.00	77689.00	87633.00	105751.00	112268.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	88.79	69.55	41.87	41.87	41.87	41.87	41.87	42.66	42.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8107.	6449.	4302.	4782.	3835.	3253.	3669.	4511.	4794.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8107.	6449.	4302.	4782.	3835.	3253.	3669.	4511.	4794.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	0.	8710.00	8710.00	0.	0.	4500.00	2500.00	2000.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	123.56	123.56	0.	0.	123.56	123.56	123.56	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	1076.	1076.	0.	0.	556.	309.	247.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	1076.	1076.	0.	0.	556.	309.	247.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	41028.00	32959.00	37463.00	51328.00	41164.00	30411.00	36880.00	45522.00	50296.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2785.	2238.	2543.	3485.	2795.	2065.	2504.	3090.	3415.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2785.	2238.	2543.	3485.	2795.	2065.	2504.	3090.	3415.

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4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1452.00	935.81	642.46	874.00	874.00	874.00	874.00	905.09	930.00
OPERATING COST \$*1,000		1452.	936.	642.	874.	874.	874.	874.	905.	930.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1452.	936.	642.	874.	874.	874.	874.	905.	930.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME	1000 CUM	40882.00	24105.00	0.	24155.00	22610.00	20189.00	21919.00	1254.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	36.42	36.45	0.	27.50	27.50	27.50	27.50	27.50	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1490.	879.	0.	664.	622.	555.	603.	34.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1490.	879.	0.	664.	622.	555.	603.	34.	0.

4.9 SLUDGE TREATMENT

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

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4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.85	1.80	0.	0.	0.	1.10	0.	2.35
UNIT PRICE 2 \$/KM		0.	25000.00	25000.00	0.	0.	0.	25000.00	0.	25000.00
ADDITIONAL COST \$*1,000		0.	40.25	115.50	0.	0.	0.	56.00	0.	106.75
CAPITAL COST \$*1,000		0.	62.	161.	0.	0.	0.	84.	0.	166.
SUBTOTAL \$*1,000		0.	62.	161.	0.	0.	0.	84.	0.	166.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		2298.00	2334.00	2586.00	2875.00	2306.00	1955.00	2206.00	2662.00	2817.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2451.	2490.	2758.	3067.	2460.	2085.	2353.	2839.	3005.
VOLUME 1000 LCM		2298.00	2334.00	2586.00	2875.00	2306.00	1955.00	2206.00	2662.00	2817.00
UNIT PRICE 2 \$/1000 LCM		191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		441.	447.	496.	551.	442.	375.	423.	510.	540.
SUBTOTAL \$*1,000		2892.	2937.	3254.	3618.	2902.	2460.	2776.	3350.	3545.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		16285.	14067.	11323.	12872.	10585.	9388.	10312.	11628.	12143.
TOTAL CAPITAL COST \$*1,000		441.	509.	656.	551.	442.	375.	506.	510.	705.
TOTAL COST \$*1,000		16726.	14576.	11979.	13423.	11028.	9763.	10818.	12138.	12849.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	163.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1239.20
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	202.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	163.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	49.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	251.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	1375.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1742.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	1375.00
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	271.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2013.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	21820.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1950.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	42549.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	42549.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)										
VOLUME	1000 CUM	103739.00	92128.00	14296.00	0.	0.	0.	0.	0.	2227806.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	42.70	42.70	42.70	0.	0.	0.	0.	0.	69.15
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	4430.	3934.	610.	0.	0.	0.	0.	0.	154048.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	33732.00
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	33732.
SUBTOTAL	\$/1000	4430.	3934.	610.	0.	0.	0.	0.	0.	187780.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	128220.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	15843.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	22256.75
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	22257.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	38100.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	46617.00	41400.00	6424.00	0.	0.	0.	0.	0.	872611.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.89	67.89	67.89	0.	0.	0.	0.	0.	67.89
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	3165.	2811.	436.	0.	0.	0.	0.	0.	59242.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	3165.	2811.	436.	0.	0.	0.	0.	0.	59242.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1.000		930.00	930.00	251.10	0.	0.	0.	0.	0.	26230.71
OPERATING COST \$*1.000		930.	930.	251.	0.	0.	0.	0.	0.	26231.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	9825.00
CAPITAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	9825.
SUBTOTAL \$*1.000		930.	930.	251.	0.	0.	0.	0.	0.	36056.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	27804.00	37701.00	8339.00	0.	0.	0.	0.	0.	388032.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	23.48	23.48	23.48	0.	0.	0.	0.	0.	31.90
ADDITIONAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1.000		653.	885.	196.	0.	0.	0.	0.	0.	12379.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	9702.00
CAPITAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	9702.
SUBTOTAL \$*1.000		653.	885.	196.	0.	0.	0.	0.	0.	22081.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	15.00
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	511.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	886.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	886.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		2611.00	2319.00	360.00	0.	0.	0.	0.	0.	56059.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1066.63	1066.63	1066.63	0.	0.	0.	0.	0.	1066.63
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2785.	2474.	384.	0.	0.	0.	0.	0.	59794.
VOLUME 1000 LCM		2611.00	2319.00	360.00	0.	0.	0.	0.	0.	56059.00
UNIT PRICE 2 \$/1000 LCM		191.69	191.69	191.69	0.	0.	0.	0.	0.	191.69
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		501.	445.	69.	0.	0.	0.	0.	0.	10746.
SUBTOTAL \$*1,000		3285.	2918.	453.	0.	0.	0.	0.	0.	70540.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	3.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	101.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	3.00
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	122.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		11962.	11033.	1877.	0.	0.	0.	0.	0.	372131.
TOTAL CAPITAL COST \$*1,000		501.	445.	69.	0.	0.	0.	0.	0.	87488.
TOTAL COST \$*1,000		12463.	11478.	1946.	0.	0.	0.	0.	0.	459620.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -3 -4 -3 -2 -1 1 2 3 4

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	-2	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

5.7 OVERBURDEN REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	-2	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR -3 -4 -3 -2 -1 1 2 3 4

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	428.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	263.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	428.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	64.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	327.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	428.00
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	3.90
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	375.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	1669.20
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	71.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	446.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	428.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	70.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	428.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	11.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	81.

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5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	704.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.80
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	144.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	847.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	296.00	296.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	541.57	541.57	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	160.	160.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	296.00	296.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	131.53	131.53	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	39.	39.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	199.	199.	0.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	296.00	296.00	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	2.20	2.20	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	178.56	178.56	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	116.	116.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	651.20	651.20	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	34.00	34.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	22.	22.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	138.	138.	0.

	YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	296.00	296.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	140.93	140.93	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	42.	42.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	296.00	296.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	22.92	22.92	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	7.	7.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	48.	48.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	2.50	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	85.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	2.50	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	17.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	102.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

5.10 PREPARED SOIL MANUFACTURE

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	888.00	888.00	1282.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	25.	25.	36.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	888.00	888.00	1282.80
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	4.	4.	6.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	29.	29.	41.

5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.12 PREPARED SOIL TRANSPORT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	0.	0.	0.	0.	0.	0.	148.00	148.00	213.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	144.83	219.05	326.27
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	259.	333.	490.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	259.	333.	490.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	686.	676.	1938.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	89.	72.	295.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	775.	747.	2233.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM		428.00	0.	0.	0.	280.00	280.00	263.00	263.00	263.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		615.19	0.	0.	0.	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		263.	0.	0.	0.	172.	172.	162.	162.	162.
VOLUME	1000 BCM		428.00	0.	0.	0.	280.00	280.00	263.00	263.00	263.00
UNIT PRICE 2	\$/1000 BCM		149.00	0.	0.	0.	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		64.	0.	0.	0.	42.	42.	39.	39.	39.
SUBTOTAL	\$/1,000		327.	0.	0.	0.	214.	214.	201.	201.	201.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		428.00	0.	0.	0.	280.00	280.00	263.00	263.00	263.00
HAUL DISTANCE	KM		3.90	0.	0.	0.	2.60	2.60	2.20	2.20	1.50
UNIT PRICE 1	\$/1000 BCM*KM		224.53	0.	0.	0.	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		375.	0.	0.	0.	163.	163.	130.	130.	89.
VOLUME*DISTANCE	1000 BCM*KM		1669.20	0.	0.	0.	728.00	728.00	578.60	578.60	394.50
UNIT PRICE 2	\$/1000 BCM*KM		42.43	0.	0.	0.	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		71.	0.	0.	0.	31.	31.	25.	25.	17.
SUBTOTAL	\$/1,000		446.	0.	0.	0.	194.	194.	154.	154.	105.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM		428.00	0.	0.	0.	280.00	280.00	263.00	263.00	263.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		163.24	0.	0.	0.	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000		0.	737.90	737.90	737.90	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		70.	738.	738.	738.	46.	46.	43.	43.	43.
VOLUME	1000 BCM		428.00	0.	0.	0.	280.00	280.00	263.00	263.00	263.00
UNIT PRICE 2	\$/1000 BCM		26.62	0.	0.	0.	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000		0.	164.10	164.10	164.10	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		11.	164.	164.	164.	7.	7.	7.	7.	7.
SUBTOTAL	\$/1,000		81.	902.	902.	902.	53.	53.	50.	50.	50.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	24.00	0.	0.	29.30	0.	15.40	0.	15.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	33825.11	0.	0.	33825.11	0.	33825.11	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	812.	0.	0.	991.	0.	521.	0.	518.
DISTANCE	KM	0.	24.00	0.	0.	29.30	0.	15.40	0.	15.30
UNIT PRICE 2	\$/KM	0.	6915.90	0.	0.	6915.90	0.	6915.90	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	166.	0.	0.	203.	0.	107.	0.	106.
SUBTOTAL	\$/1,000	0.	978.	0.	0.	1194.	0.	627.	0.	623.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	667.00	667.00	667.00	0.	0.	263.00	263.00	263.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	541.57	541.57	541.57	0.	0.	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	361.	361.	361.	0.	0.	142.	142.	142.
VOLUME	1000 BCM	0.	667.00	667.00	667.00	0.	0.	263.00	263.00	263.00
UNIT PRICE 2	\$/1000 BCM	0.	131.53	131.53	131.53	0.	0.	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	88.	88.	88.	0.	0.	35.	35.	35.
SUBTOTAL	\$/1,000	0.	449.	449.	449.	0.	0.	177.	177.	177.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	667.00	667.00	667.00	0.	0.	263.00	263.00	263.00
HAUL DISTANCE	KM	0.	5.60	5.60	5.60	0.	0.	3.00	3.00	3.00
UNIT PRICE 1	\$/1000 BCM*KM	0.	178.56	178.56	178.56	0.	0.	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	667.	667.	667.	0.	0.	141.	141.	141.
VOLUME*DISTANCE	1000 BCM*KM	0.	3735.20	3735.20	3735.20	0.	0.	789.00	789.00	789.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	34.00	34.00	34.00	0.	0.	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	127.	127.	127.	0.	0.	27.	27.	27.
SUBTOTAL	\$/1,000	0.	794.	794.	794.	0.	0.	168.	168.	168.

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	667.00	667.00	667.00	0.	0.	263.00	263.00	263.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	140.93	140.93	140.93	0.	0.	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	94.	94.	94.	0.	0.	37.	37.	37.
VOLUME	1000 BCM	0.	667.00	667.00	667.00	0.	0.	263.00	263.00	263.00
UNIT PRICE 2	\$/1000 BCM	0.	22.92	22.92	22.92	0.	0.	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	15.	15.	15.	0.	0.	6.	6.	6.
SUBTOTAL	\$/1,000	0.	109.	109.	109.	0.	0.	43.	43.	43.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	5.90	0.	0.	0.	0.	3.30	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	33825.11	0.	0.	0.	0.	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	200.	0.	0.	0.	0.	112.	0.	0.
DISTANCE	KM	0.	5.90	0.	0.	0.	0.	3.30	0.	0.
UNIT PRICE 2	\$/KM	0.	6915.90	0.	0.	0.	0.	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	41.	0.	0.	0.	0.	23.	0.	0.
SUBTOTAL	\$/1,000	0.	240.	0.	0.	0.	0.	134.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1282.80	1999.80	1999.80	1999.80	840.00	840.00	790.20	790.20	790.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	36.	56.	56.	56.	23.	23.	22.	22.	22.
VOLUME	1000 BCM	1282.80	1999.80	1999.80	1999.80	840.00	840.00	790.20	790.20	790.20
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	9.	9.	9.	4.	4.	3.	3.	3.
SUBTOTAL	\$/1,000	41.	64.	64.	64.	27.	27.	25.	25.	25.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	213.80	333.30	333.30	333.30	140.00	140.00	131.70	131.70	131.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	433.49	600.64	697.19	864.34	934.55	1004.76	1070.80	1136.85	1202.90
OPERATING COST	\$/1,000	598.	857.	953.	1120.	1042.	1112.	1172.	1238.	1304.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	598.	857.	953.	1120.	1042.	1112.	1172.	1238.	1304.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	1341.	3784.	2869.	3036.	2438.	1517.	2482.	1915.	2457.
TOTAL CAPITAL COST	\$/1,000	152.	610.	403.	403.	286.	84.	271.	142.	240.
TOTAL COST	\$/1,000	1493.	4393.	3272.	3439.	2724.	1601.	2752.	2057.	2697.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	263.00	176.00	176.00	309.00	309.00	309.00	408.00	600.00	4755.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	162.	108.	108.	190.	190.	190.	251.	369.	2925.
VOLUME	1000 BCM	263.00	176.00	176.00	309.00	309.00	309.00	408.00	600.00	4755.00
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	39.	26.	26.	46.	46.	46.	61.	89.	708.
SUBTOTAL	\$/1000	201.	134.	134.	236.	236.	236.	312.	459.	3634.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	263.00	176.00	176.00	309.00	309.00	309.00	408.00	600.00	4755.00
HAUL DISTANCE	KM	1.50	2.80	2.80	2.20	1.90	1.90	2.30	2.30	2.50
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	89.	111.	111.	153.	132.	132.	211.	310.	2672.
VOLUME*DISTANCE	1000 BCM*KM	394.50	492.80	492.80	679.80	587.10	587.10	938.40	1380.00	11898.60
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	17.	21.	21.	29.	25.	25.	40.	59.	505.
SUBTOTAL	\$/1000	105.	132.	132.	181.	157.	157.	251.	368.	3176.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	263.00	176.00	176.00	309.00	309.00	309.00	408.00	600.00	4755.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	2213.70
OPERATING COST	\$/1000	43.	29.	29.	50.	50.	50.	67.	98.	2990.
VOLUME	1000 BCM	263.00	176.00	176.00	309.00	309.00	309.00	408.00	600.00	4755.00
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	492.30
CAPITAL COST	\$/1000	7.	5.	5.	8.	8.	8.	11.	16.	619.
SUBTOTAL	\$/1000	50.	33.	33.	59.	59.	59.	77.	114.	3609.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	9.30	0.	11.60	22.20	0.	28.30	0.	176.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	33825.11	0.	33825.11	33825.11	0.	33825.11	0.	33825.11
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	315.	0.	392.	751.	0.	957.	0.	5960.
DISTANCE	KM	0.	9.30	0.	11.60	22.20	0.	28.30	0.	176.20
UNIT PRICE 2	\$/KM	0.	6915.90	0.	6915.90	6915.90	0.	6915.90	0.	6915.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	64.	0.	80.	154.	0.	196.	0.	1219.
SUBTOTAL	\$/1000	0.	379.	0.	473.	904.	0.	1153.	0.	7179.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	263.00	0.	0.	569.00	569.00	569.00	460.00	600.00	6412.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	0.	0.	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	142.	0.	0.	308.	308.	308.	249.	325.	3473.
VOLUME	1000 BCM	263.00	0.	0.	569.00	569.00	569.00	460.00	600.00	6412.00
UNIT PRICE 2	\$/1000 BCM	131.53	0.	0.	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	35.	0.	0.	75.	75.	75.	61.	79.	843.
SUBTOTAL	\$/1000	177.	0.	0.	383.	383.	383.	310.	404.	4316.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	263.00	0.	0.	569.00	569.00	569.00	460.00	600.00	6412.00
HAUL DISTANCE	KM	3.00	0.	0.	0.80	0.80	0.80	0.60	1.20	2.81
UNIT PRICE 1	\$/1000 BCM*KM	178.56	0.	0.	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	141.	0.	0.	81.	81.	81.	49.	129.	3219.
VOLUME*DISTANCE	1000 BCM*KM	789.00	0.	0.	455.20	455.20	455.20	276.00	720.00	18025.60
UNIT PRICE 2	\$/1000 BCM*KM	34.00	0.	0.	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	27.	0.	0.	15.	15.	15.	9.	24.	613.
SUBTOTAL	\$/1000	168.	0.	0.	97.	97.	97.	59.	153.	3832.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
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 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	263.00	0.	0.	569.00	569.00	569.00	460.00	600.00	6412.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	0.	0.	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	37.	0.	0.	80.	80.	80.	65.	85.	904.
VOLUME	1000 BCM	263.00	0.	0.	569.00	569.00	569.00	460.00	600.00	6412.00
UNIT PRICE 2	\$/1000 BCM	22.92	0.	0.	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	6.	0.	0.	13.	13.	13.	11.	14.	147.
SUBTOTAL	\$/1000	43.	0.	0.	93.	93.	93.	75.	98.	1051.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	1.10	0.60	0.	0.	0.	13.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	33825.11	33825.11	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	37.	20.	0.	0.	0.	453.
DISTANCE	KM	0.	0.	0.	1.10	0.60	0.	0.	0.	13.40
UNIT PRICE 2	\$/KM	0.	0.	0.	6915.90	6915.90	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	8.	4.	0.	0.	0.	93.
SUBTOTAL	\$/1000	0.	0.	0.	45.	24.	0.	0.	0.	546.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		790.20	526.80	526.80	928.20	928.20	928.20	1224.00	1800.00	22044.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		22.	15.	15.	26.	26.	26.	34.	50.	614.
VOLUME	1000 BCM		790.20	526.80	526.80	928.20	928.20	928.20	1224.00	1800.00	22044.00
UNIT PRICE 2	\$/1000 BCM		4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		3.	2.	2.	4.	4.	4.	5.	8.	96.
SUBTOTAL	\$/1000		25.	17.	17.	30.	30.	30.	39.	58.	710.
5.11 PREPARED SOIL LOADING F.E.L. TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION											
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE											
AREA	HECTARES		131.70	87.80	87.80	154.70	154.70	154.70	204.00	300.00	3674.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000		1268.95	1312.98	1357.01	1434.59	1512.17	1589.76	1692.06	1842.51	20645.70
OPERATING COST	\$/1,000		1370.	1380.	1424.	1553.	1631.	1709.	1849.	2073.	23468.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		1370.	1380.	1424.	1553.	1631.	1709.	1849.	2073.	23468.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000		2006.	1957.	1687.	2872.	3270.	2576.	3732.	3438.	46676.
TOTAL CAPITAL COST	\$/1,000		134.	118.	54.	278.	344.	187.	393.	289.	4843.
TOTAL COST	\$/1,000		2140.	2076.	1741.	3150.	3614.	2763.	4125.	3727.	51519.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	4.00	8.00	20.00	39.00	59.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.

YEAR 5 6 7 8 9 10 11 12 13

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/PERSON	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	78.00	78.00	78.00	18.00	18.00	18.00	18.00	18.00	2170.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	5.00	5.00	5.00	5.00	5.00	1891.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	1214.	1274.	1331.	1331.	1331.	1331.
CAPITAL COST	\$*1,000	0.	10894.	12650.	0.	1755.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	10894.	12650.	1214.	3029.	1331.	1331.	1331.	1331.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	4418.	3137.	3456.	2301.	3364.	1665.	1355.	999.	567.
CAPITAL COST	\$*1,000	774.	575.	621.	424.	624.	307.	252.	183.	103.
SUBTOTAL	\$*1,000	5192.	3713.	4078.	2726.	3989.	1972.	1607.	1182.	670.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	10946.	11108.	31394.	34874.	39226.	41185.
CAPITAL COST	\$*1,000	12218.	12218.	69454.	89151.	61078.	68169.	5451.	5416.	13577.
SUBTOTAL	\$*1,000	12218.	12218.	69454.	100097.	72187.	99563.	40325.	44641.	54762.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	1944.	0.	21275.	21376.	11217.	14173.	16218.	15512.
CAPITAL COST	\$*1,000	0.	320.	11244.	14011.	14032.	11158.	5125.	3181.	2974.
SUBTOTAL	\$*1,000	0.	2264.	11244.	35286.	35408.	22375.	19298.	19398.	18486.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4746.	5798.	5249.	39232.	42411.	52597.	58725.	64764.	65585.
TOTAL CAPITAL COST	\$*1,000	12992.	24007.	93969.	103587.	77489.	79634.	10828.	8779.	16655.
TOTAL COST	\$*1,000	17738.	29805.	99218.	142818.	119900.	132232.	69552.	73543.	82240.

		YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES											
OPERATING COST	\$*1,000		1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS											
OPERATING COST	\$*1,000		458.	683.	714.	1631.	2454.	2034.	1880.	4319.	200.
CAPITAL COST	\$*1,000		77.	115.	125.	296.	447.	366.	348.	808.	31.
SUBTOTAL	\$*1,000		534.	799.	839.	1927.	2901.	2399.	2227.	5128.	231.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING											
OPERATING COST	\$*1,000		42717.	38387.	37752.	37313.	34098.	37336.	37225.	38983.	46816.
CAPITAL COST	\$*1,000		4483.	723.	0.	0.	5723.	0.	0.	17618.	8963.
SUBTOTAL	\$*1,000		47200.	39110.	37752.	37313.	39821.	37336.	37225.	56600.	55780.
COST CENTRE 4: TAILINGS DISPOSAL											
OPERATING COST	\$*1,000		14634.	14088.	14703.	15513.	15140.	16103.	15691.	14926.	16144.
CAPITAL COST	\$*1,000		2725.	2644.	3670.	5223.	3834.	409.	396.	398.	436.
SUBTOTAL	\$*1,000		17358.	16732.	18373.	20737.	18973.	16512.	16087.	15323.	16580.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES											
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	686.	676.	1938.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	89.	72.	295.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	775.	747.	2233.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES											
OPERATING COST	\$*1,000		6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$*1,000		66130.	61481.	61491.	62780.	60014.	63795.	63805.	67226.	73420.
TOTAL CAPITAL COST	\$*1,000		7285.	3482.	3795.	5519.	10004.	775.	833.	18895.	9726.
TOTAL COST	\$*1,000		73415.	64963.	65286.	68299.	70017.	64570.	64637.	86121.	83146.

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	148.	146.	119.	142.	797.	1615.	1723.	999.	0.
CAPITAL COST	\$*1,000	23.	23.	19.	23.	145.	301.	324.	186.	0.
SUBTOTAL	\$*1,000	171.	169.	138.	164.	943.	1916.	2047.	1185.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	36134.	36528.	41450.	47954.	40024.	35177.	38661.	43301.	45508.
CAPITAL COST	\$*1,000	7241.	0.	0.	0.	0.	5723.	723.	3410.	13781.
SUBTOTAL	\$*1,000	43375.	36528.	41450.	47954.	40024.	40900.	39384.	46711.	59290.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	16285.	14067.	11323.	12872.	10585.	9388.	10312.	11628.	12143.
CAPITAL COST	\$*1,000	441.	509.	656.	551.	442.	375.	506.	510.	705.
SUBTOTAL	\$*1,000	16726.	14576.	11979.	13423.	11028.	9763.	10818.	12138.	12849.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	1341.	3784.	2869.	3036.	2438.	1517.	2482.	1915.	2457.
CAPITAL COST	\$*1,000	152.	610.	403.	403.	286.	84.	271.	142.	240.
SUBTOTAL	\$*1,000	1493.	4393.	3272.	3439.	2724.	1601.	2752.	2057.	2697.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	62231.	62847.	64083.	72326.	62167.	56019.	61500.	66165.	68431.
TOTAL CAPITAL COST	\$*1,000	7856.	1141.	1078.	977.	874.	6482.	1824.	4248.	14727.
TOTAL COST	\$*1,000	70087.	63989.	65160.	73302.	63040.	62501.	63324.	70413.	83158.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY #0.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1331.	1331.	563.	41.	41.	41.	41.	41.	35200.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	25299.
SUBTOTAL	\$*1,000	1331.	1331.	563.	41.	41.	41.	41.	41.	60499.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	41324.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	7520.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	48844.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	43482.	33328.	4487.	0.	0.	0.	0.	0.	965395.
CAPITAL COST	\$*1,000	8383.	0.	0.	0.	0.	0.	0.	0.	413504.
SUBTOTAL	\$*1,000	51865.	33328.	4487.	0.	0.	0.	0.	0.	1378898.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	11962.	11033.	1877.	0.	0.	0.	0.	0.	372131.
CAPITAL COST	\$*1,000	501.	445.	69.	0.	0.	0.	0.	0.	87488.
SUBTOTAL	\$*1,000	12463.	11478.	1946.	0.	0.	0.	0.	0.	459620.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	2006.	1957.	1687.	2872.	3270.	2576.	3732.	3438.	46676.
CAPITAL COST	\$*1,000	134.	118.	54.	278.	344.	187.	393.	289.	4843.
SUBTOTAL	\$*1,000	2140.	2076.	1741.	3150.	3614.	2763.	4125.	3727.	51519.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	65772.	54640.	15605.	4135.	4534.	3840.	4995.	4702.	1653241.
TOTAL CAPITAL COST	\$*1,000	9017.	563.	123.	278.	344.	187.	393.	289.	538654.
TOTAL COST	\$*1,000	74789.	55203.	15729.	4414.	4878.	4027.	5388.	4991.	2191894.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	829.	791.	751.	683.	621.	564.
CAPITAL COST	\$*1,000	0.	9003.	9504.	0.	1090.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	9003.	9504.	829.	1881.	751.	683.	621.	564.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	4016.	2593.	2597.	1572.	2089.	940.	695.	466.	240.
CAPITAL COST	\$*1,000	704.	475.	467.	290.	388.	173.	129.	85.	44.
SUBTOTAL	\$*1,000	4720.	3068.	3064.	1862.	2477.	1113.	825.	551.	284.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	7476.	6897.	17721.	17896.	18299.	17466.
CAPITAL COST	\$*1,000	11107.	10098.	52182.	60892.	37925.	38480.	2797.	2526.	5758.
SUBTOTAL	\$*1,000	11107.	10098.	52182.	68368.	44822.	56201.	20693.	20825.	23224.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	1607.	0.	14531.	13273.	6332.	7273.	7566.	6578.
CAPITAL COST	\$*1,000	0.	264.	8448.	9570.	8713.	6299.	2630.	1484.	1261.
SUBTOTAL	\$*1,000	0.	1871.	8448.	24100.	21985.	12630.	9903.	9049.	7840.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4315.	4792.	3944.	26796.	26334.	29690.	30135.	30213.	27814.
TOTAL CAPITAL COST	\$*1,000	11811.	19840.	70601.	70751.	48115.	44952.	5556.	4096.	7063.
TOTAL COST	\$*1,000	16126.	24632.	74544.	97547.	74449.	74641.	35691.	34308.	34878.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST \$*1,000	513.	467.	424.	386.	350.	319.	290.	263.	239.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	513.	467.	424.	386.	350.	319.	290.	263.	239.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST \$*1,000	176.	239.	227.	472.	646.	487.	409.	855.	36.
CAPITAL COST \$*1,000	30.	40.	40.	86.	118.	88.	76.	160.	6.
SUBTOTAL \$*1,000	206.	280.	267.	558.	764.	574.	485.	1014.	42.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST \$*1,000	16469.	13454.	12029.	10808.	8979.	8938.	8101.	7713.	8420.
CAPITAL COST \$*1,000	1728.	253.	0.	0.	1507.	0.	0.	3486.	1612.
SUBTOTAL \$*1,000	18198.	13708.	12029.	10808.	10486.	8938.	8101.	11198.	10032.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST \$*1,000	5642.	4938.	4685.	4494.	3987.	3855.	3415.	2953.	2904.
CAPITAL COST \$*1,000	1051.	927.	1169.	1513.	1010.	98.	86.	79.	78.
SUBTOTAL \$*1,000	6692.	5865.	5854.	6007.	4996.	3953.	3501.	3032.	2982.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	149.	134.	349.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	19.	14.	53.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	169.	148.	402.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST \$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	25496.	21549.	19593.	18185.	15804.	15272.	13886.	13300.	13205.
TOTAL CAPITAL COST \$*1,000	2809.	1221.	1209.	1599.	2634.	185.	181.	3738.	1749.
TOTAL COST \$*1,000	28305.	22769.	20802.	19784.	18438.	15458.	14067.	17039.	14955.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	218.	198.	180.	164.	149.	135.	123.	112.	102.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	218.	198.	180.	164.	149.	135.	123.	112.	102.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	24.	22.	16.	17.	89.	164.	159.	84.	0.
CAPITAL COST	\$*1,000	4.	3.	3.	3.	16.	31.	30.	16.	0.
SUBTOTAL	\$*1,000	28.	25.	19.	20.	105.	195.	189.	99.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	5908.	5430.	5601.	5891.	4470.	3571.	3568.	3633.	3471.
CAPITAL COST	\$*1,000	1184.	0.	0.	0.	0.	581.	67.	286.	1051.
SUBTOTAL	\$*1,000	7092.	5430.	5601.	5891.	4470.	4152.	3635.	3919.	4522.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	2663.	2091.	1530.	1581.	1182.	953.	952.	976.	926.
CAPITAL COST	\$*1,000	72.	76.	89.	68.	49.	38.	47.	43.	54.
SUBTOTAL	\$*1,000	2735.	2167.	1619.	1649.	1232.	991.	998.	1018.	980.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	219.	562.	388.	373.	272.	154.	229.	161.	187.
CAPITAL COST	\$*1,000	25.	91.	54.	49.	32.	9.	25.	12.	18.
SUBTOTAL	\$*1,000	244.	653.	442.	422.	304.	163.	254.	173.	206.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1143.	1039.	945.	859.	781.	710.	645.	587.	533.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1143.	1039.	945.	859.	781.	710.	645.	587.	533.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	10175.	9342.	8660.	8885.	6943.	5687.	5676.	5552.	5220.
TOTAL CAPITAL COST	\$*1,000	1285.	170.	146.	120.	98.	658.	168.	356.	1123.
TOTAL COST	\$*1,000	11460.	9511.	8805.	9005.	7040.	6345.	5845.	5908.	6343.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	92.	84.	32.	2.	2.	2.	2.	1.	9087.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	19597.
SUBTOTAL	\$*1,000	92.	84.	32.	2.	2.	2.	2.	1.	28684.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	19332.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	3502.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	22833.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	3015.	2101.	257.	0.	0.	0.	0.	0.	227585.
CAPITAL COST	\$*1,000	581.	0.	0.	0.	0.	0.	0.	0.	234101.
SUBTOTAL	\$*1,000	3596.	2101.	257.	0.	0.	0.	0.	0.	461687.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	830.	696.	108.	0.	0.	0.	0.	0.	108517.
CAPITAL COST	\$*1,000	35.	28.	4.	0.	0.	0.	0.	0.	45280.
SUBTOTAL	\$*1,000	864.	724.	112.	0.	0.	0.	0.	0.	153796.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	139.	123.	97.	150.	155.	111.	146.	122.	4220.
CAPITAL COST	\$*1,000	9.	7.	3.	15.	16.	8.	15.	10.	486.
SUBTOTAL	\$*1,000	148.	131.	100.	164.	171.	119.	161.	133.	4706.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	4561.	3445.	894.	215.	215.	165.	196.	167.	416319.
TOTAL CAPITAL COST	\$*1,000	625.	35.	7.	15.	16.	8.	15.	10.	302966.
TOTAL COST	\$*1,000	5186.	3480.	901.	230.	231.	173.	211.	178.	719285.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

7.0

120,000 BPCD

Dragline Mine

Improved Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00
OPERATING COST \$*1,000		0.	0.	0.	1097.	1097.	1097.	1097.	1097.	1097.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	10894.00	10895.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	10894.	10895.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	10894.	10895.	1097.	1097.	1097.	1097.	1097.	1097.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		0.	0.	0.	117.00	177.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	117.	177.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	117.00	0.	117.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1755.	0.	1755.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	1755.	117.	1932.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	1214.	1274.	1331.	1331.	1331.	1331.
TOTAL CAPITAL COST \$*1,000		0.	10894.	12650.	0.	1755.	0.	0.	0.	0.
TOTAL COST	\$*1,000	0.	10894.	12650.	1214.	3029.	1331.	1331.	1331.	1331.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00
OPERATING COST \$*1,000		1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	234.	234.	234.	234.	234.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00	1097.00
OPERATING COST \$*1,000		1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.	1097.

1.2 BUILDINGS

NO. OF PERSONS	PERSONS	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	234.	234.	234.	234.	234.	234.	234.	234.	234.
NO. OF PERSONS	PERSONS	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	234.	234.	234.	234.	234.	234.	234.	234.	234.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1097.00	1097.00	329.00	0.	0.	0.	0.	0.	28851.00
OPERATING COST \$*1,000		1097.	1097.	329.	0.	0.	0.	0.	0.	28851.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21789.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21789.
SUBTOTAL	\$*1,000	1097.	1097.	329.	0.	0.	0.	0.	0.	50640.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		234.00	234.00	234.00	41.00	41.00	41.00	41.00	41.00	6349.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	41.	41.	41.	41.	41.	6349.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	234.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3510.
SUBTOTAL	\$*1,000	234.	234.	234.	41.	41.	41.	41.	41.	9859.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1331.	1331.	563.	41.	41.	41.	41.	41.	35200.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	25299.
TOTAL COST \$*1,000		1331.	1331.	563.	41.	41.	41.	41.	41.	60499.

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.1 CLEARING

AREA	HECTARES	870.36	155.78	441.92	86.43	181.55	81.22	84.63	85.30	105.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1103.	197.	560.	109.	230.	103.	107.	108.	133.
AREA	HECTARES	870.36	155.78	441.92	86.43	181.55	81.22	84.63	85.30	105.30
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	171.	31.	87.	17.	36.	16.	17.	17.	21.
SUBTOTAL	\$/1,000	1274.	228.	647.	127.	266.	119.	124.	125.	154.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	247.10	53.20	64.60	33.50	22.50	18.30	8.50	7.20	11.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	457.	98.	120.	62.	42.	34.	16.	13.	21.
DITCH VOLUME	1000 BCM	247.10	53.20	64.60	33.50	22.50	18.30	8.50	7.20	11.30
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	74.	16.	19.	10.	7.	5.	3.	2.	3.
SUBTOTAL	\$/1,000	531.	114.	139.	72.	48.	39.	18.	15.	24.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1343.	1310.	1268.	911.	1145.	595.	416.	324.	126.
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	327.	319.	308.	221.	278.	145.	101.	79.	31.
SUBTOTAL	\$/1,000	1670.	1629.	1577.	1132.	1424.	740.	518.	403.	157.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
HAUL DISTANCE	KM	1.55	1.40	1.90	2.00	3.20	3.20	3.50	3.60	2.70
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	613.	540.	710.	537.	1079.	561.	429.	344.	100.
VOLUME*DISTANCE	1000 BCM*KM	2414.00	2154.00	2829.00	2140.00	4340.00	2236.00	1711.00	1370.00	399.90
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	118.	105.	138.	104.	211.	109.	83.	67.	19.
SUBTOTAL	\$/1000	731.	645.	848.	641.	1291.	670.	513.	410.	120.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	756.	738.	714.	513.	645.	335.	234.	182.	71.
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	55.	53.	52.	37.	47.	24.	17.	13.	5.
SUBTOTAL	\$/1000	811.	791.	766.	550.	691.	359.	251.	196.	76.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	4.30	7.50	2.50	5.00	6.60	1.10	4.50	0.80	3.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	145.	254.	85.	169.	223.	37.	152.	27.	115.
LENGTH	KM	4.30	7.50	2.50	5.00	6.60	1.10	4.50	0.80	3.40
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	30.	52.	17.	35.	46.	8.	31.	6.	24.
SUBTOTAL	\$/1000	175.	306.	102.	204.	269.	45.	183.	33.	139.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	4418.	3137.	3456.	2301.	3364.	1665.	1355.	999.	567.
TOTAL CAPITAL COST	\$/1000	774.	575.	621.	424.	624.	307.	252.	183.	103.
TOTAL COST	\$/1000	5192.	3713.	4078.	2726.	3989.	1972.	1607.	1182.	670.

YEAR 5 6 7 8 9 10 11 12 13

2.1 CLEARING

AREA	HECTARES	198.17	239.61	124.87	123.26	150.11	186.00	50.75	53.08	157.92
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	251.	304.	158.	156.	190.	236.	64.	67.	200.
AREA	HECTARES	198.17	239.61	124.87	123.26	150.11	186.00	50.75	53.08	157.92
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	39.	47.	25.	24.	30.	37.	10.	10.	31.
SUBTOTAL	\$/1,000	290.	351.	183.	180.	220.	272.	74.	78.	231.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	19.50	59.20	62.40	46.90	44.60	79.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	36.	110.	115.	87.	83.	146.	0.	0.	0.
DITCH VOLUME	1000 BCM	19.50	59.20	62.40	46.90	44.60	79.00	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	18.	19.	14.	13.	24.	0.	0.	0.
SUBTOTAL	\$/1,000	42.	127.	134.	101.	96.	170.	0.	0.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	77.	120.	208.	663.	1067.	831.	792.	1401.	0.
VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	19.	29.	51.	161.	260.	202.	193.	341.	0.
SUBTOTAL	\$/1,000	95.	149.	258.	824.	1327.	1033.	984.	1741.	0.

YEAR 5 6 7 8 9 10 11 12 13

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
HAUL DISTANCE	KM	1.20	1.20	1.00	1.40	1.20	1.00	0.80	1.50	0.
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	27.	42.	61.	274.	377.	245.	187.	619.	0.
VOLUME*DISTANCE	1000 BCM*KM	108.00	168.80	244.20	1091.00	1505.00	976.00	744.00	2467.50	0.
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	5.	8.	12.	53.	73.	48.	36.	120.	0.
SUBTOTAL	\$/1000	32.	51.	73.	327.	451.	292.	223.	739.	0.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	43.	67.	117.	373.	601.	468.	446.	789.	0.
VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	3.	5.	8.	27.	43.	34.	32.	57.	0.
SUBTOTAL	\$/1000	46.	72.	126.	400.	644.	502.	478.	846.	0.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	0.70	1.20	1.60	2.30	4.00	3.20	2.60	2.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	24.	41.	54.	78.	135.	108.	88.	68.	0.
LENGTH	KM	0.70	1.20	1.60	2.30	4.00	3.20	2.60	2.00	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	5.	8.	11.	16.	28.	22.	18.	14.	0.
SUBTOTAL	\$/1000	29.	49.	65.	94.	163.	130.	106.	81.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1000	458.	683.	714.	1631.	2454.	2034.	1576.	2943.	200.
TOTAL CAPITAL COST	\$/1000	77.	115.	125.	296.	447.	366.	289.	542.	31.
TOTAL COST	\$/1000	534.	799.	839.	1927.	2901.	2399.	1865.	3485.	231.

YEAR 14 15 16 17 18 19 20 21 22

2.1 CLEARING

AREA	HECTARES	117.06	115.34	64.28	42.31	33.47	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	148.	146.	81.	54.	42.	0.	0.	0.	0.
AREA	HECTARES	117.06	115.34	64.28	42.31	33.47	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	23.	23.	13.	8.	7.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	171.	169.	94.	62.	49.	0.	0.	0.	0.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	0.	0.	20.30	47.60	47.00	25.10	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	1850.00	1850.00	1850.00	1850.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	38.	88.	87.	46.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	20.30	47.60	47.00	25.10	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	300.00	300.00	300.00	300.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	6.	14.	14.	8.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	44.	102.	101.	54.	0.	0.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	851.40	851.40	851.40	851.40	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	304.	651.	631.	417.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	207.00	207.00	207.00	207.00	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	74.	158.	153.	101.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	378.	809.	784.	519.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	1.20	2.10	3.00	2.60	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	250.80	250.80	250.80	250.80	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	108.	403.	558.	320.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	429.00	1605.00	2223.00	1274.00	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	48.70	48.70	48.70	48.70	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	21.	78.	108.	62.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	128.	481.	666.	382.	0.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	479.40	479.40	479.40	479.40	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	171.	367.	355.	235.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	34.60	34.60	34.60	34.60	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	12.	26.	26.	17.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	184.	393.	381.	252.	0.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	2.50	4.40	5.30	0.80	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	85.	149.	179.	27.	0.
LENGTH	KM	0.	0.	0.	0.	2.50	4.40	5.30	0.80	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	17.	30.	37.	6.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	102.	179.	216.	33.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	148.	146.	119.	142.	797.	1615.	1723.	999.	0.
TOTAL CAPITAL COST	\$/1000	23.	23.	19.	23.	145.	301.	324.	186.	0.
TOTAL COST	\$/1000	171.	169.	138.	164.	943.	1916.	2047.	1185.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	3748.72
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4749.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	3748.72
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	738.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5487.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	917.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1698.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	917.80
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	275.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1973.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	14601.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	3550.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	18151.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	1.89
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8133.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	32429.40
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1579.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	9712.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8221.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	593.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8815.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	66.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2243.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	66.30
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	459.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2701.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	39644.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	7194.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	46839.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	2515.	2515.	2515.	2515.	2515.	2515.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	6708.00	6708.00	6708.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	6708.	6708.	6708.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6708.	6708.	6708.	2515.	2515.	2515.	2515.	2515.	2515.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	36833.00	43050.00	49617.00	50556.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	7421.	8673.	9996.	10185.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	57236.00	57236.00	57236.00	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	57236.	57236.	57236.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	57236.	57236.	57236.	7421.	8673.	9996.	10185.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	49088.00	54220.00	60516.00	60606.00
DISTANCE	M	0.	0.	0.	5100.00	6070.00	23280.00	24800.00	26310.00	28500.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	819.	975.	12970.	15262.	18071.	19605.
CONV. INCREASE	M	0.	0.	0.	5100.00	970.00	17210.00	1520.00	1510.00	2190.00
UNIT PRICE 2	\$/M	0.	0.	0.	3961.03	3961.03	3961.03	3586.43	3586.43	3586.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	20201.	3842.	68169.	5451.	5416.	7854.
SUBTOTAL	\$/1,000	0.	0.	0.	21020.	4817.	81140.	20713.	23487.	27459.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	17718.00	16181.00	17168.00	18835.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	103.48	103.48	103.48	103.48	103.48	103.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1464.	1464.	1833.	1674.	1777.	1949.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5510.00	5510.00	5510.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5510.	5510.	5510.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	5510.	5510.	5510.	1464.	1464.	1833.	1674.	1777.	1949.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00
OPERATING COST	\$/1,000	0.	0.	0.	6114.	6114.	6114.	6114.	6114.	6114.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	11714.00	0.	0.	0.	0.	5723.00
CAPITAL COST	\$/1,000	0.	0.	0.	11714.	0.	0.	0.	0.	5723.
SUBTOTAL	\$/1,000	0.	0.	0.	17828.	6114.	6114.	6114.	6114.	11837.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	10912.	11068.	30853.	34238.	38473.	40368.
TOTAL CAPITAL COST	\$/1,000	12218.	12218.	69454.	89151.	61078.	68169.	5451.	5416.	13577.
TOTAL COST	\$/1,000	12218.	12218.	69454.	100063.	72146.	99022.	39689.	43888.	53945.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	52709.00	53591.00	51948.00	49041.00	45862.00	46311.00	43622.00	39810.00	51478.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10619.	10797.	10466.	9880.	9240.	9330.	8788.	8020.	10371.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10619.	10797.	10466.	9880.	9240.	9330.	8788.	8020.	10371.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	60395.00	59192.00	58479.00	58991.00	57142.00	56428.00	52270.00	52281.00	61462.00
DISTANCE	M	29750.00	23920.00	24200.00	24530.00	21470.00	26100.00	29370.00	33470.00	35210.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	20393.	16070.	16062.	16424.	13925.	16716.	17424.	19861.	24562.
CONV. INCREASE	M	1250.00	0.	0.	0.	0.	0.	0.	3720.00	1740.00
UNIT PRICE 2	\$/M	3586.43	0.	0.	0.	0.	0.	0.	4735.90	4735.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	4483.	0.	0.	0.	0.	0.	0.	17618.	8240.
SUBTOTAL	\$/1000	24876.	16070.	16062.	16424.	13925.	16716.	17424.	37478.	32803.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	21512.00	21469.00	18611.00	16389.00	16669.00	18990.00	16024.00	15901.00	21555.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	2226.	2222.	1926.	1696.	1725.	1965.	1658.	1645.	2231.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	2226.	2222.	1926.	1696.	1725.	1965.	1658.	1645.	2231.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00
OPERATING COST	\$/1000	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	723.00	0.	0.	5723.00	0.	0.	0.	723.00
CAPITAL COST	\$/1000	0.	723.	0.	0.	5723.	0.	0.	0.	723.
SUBTOTAL	\$/1000	6114.	6837.	6114.	6114.	11837.	6114.	6114.	6114.	6837.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1000	41867.	37717.	37083.	36629.	33518.	36640.	36499.	38155.	45792.
TOTAL CAPITAL COST	\$/1000	4483.	723.	0.	0.	5723.	0.	0.	17618.	8963.
TOTAL COST	\$/1000	46350.	38440.	37083.	36629.	39241.	36640.	36499.	55773.	54756.

YEAR 14 15 16 17 18 19 20 21 22

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	12750.00	7250.00	7250.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2266.	1288.	1288.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2266.	1288.	1288.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	52958.00	48535.00	52959.00	57300.00	47892.00	39722.00	45086.00	53549.00	53525.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10669.	9778.	10669.	11544.	9649.	8003.	9083.	10788.	10783.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10669.	9778.	10669.	11544.	9649.	8003.	9083.	10788.	10783.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	58794.00	58256.00	62828.00	67548.00	57702.00	50684.00	54627.00	56680.00	57647.00
DISTANCE	M	21640.00	24110.00	28220.00	33740.00	30760.00	29420.00	31220.00	37180.00	40840.00
UNIT PRICE 1	\$/1000 BCM*MM	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14441.	15942.	20124.	25867.	20145.	16924.	19357.	23919.	26721.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	1970.00	3660.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	4735.90	4735.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	9330.	17333.
SUBTOTAL	\$/1,000	14441.	15942.	20124.	25867.	20145.	16924.	19357.	33248.	44055.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	18475.00	17308.00	17454.00	17108.00	17250.00	16377.00	15928.00	9980.00	8221.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48	103.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1912.	1791.	1806.	1770.	1785.	1695.	1648.	1033.	851.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1912.	1791.	1806.	1770.	1785.	1695.	1648.	1033.	851.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00	6114.00
OPERATING COST	\$/1,000	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.	6114.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	7241.00	0.	0.	0.	0.	5723.00	723.00	0.	0.
CAPITAL COST	\$/1,000	7241.	0.	0.	0.	0.	5723.	723.	0.	0.
SUBTOTAL	\$/1,000	13355.	6114.	6114.	6114.	6114.	11837.	6837.	6114.	6114.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	35650.	36139.	41228.	47810.	40208.	35250.	38468.	43142.	45758.
TOTAL CAPITAL COST	\$/1,000	7241.	0.	0.	0.	0.	5723.	723.	9330.	17333.
TOTAL COST	\$/1,000	42891.	36139.	41228.	47810.	40208.	40973.	39191.	52472.	63091.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		7250.00	2188.00	0.	0.	0.	0.	0.	0.	33388.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		177.72	177.72	0.	0.	0.	0.	0.	0.	177.72
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		1288.	389.	0.	0.	0.	0.	0.	0.	59330.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	20124.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	20124.
SUBTOTAL	\$/1,000		1288.	389.	0.	0.	0.	0.	0.	0.	79454.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		47367.00	42092.00	6652.00	0.	0.	0.	0.	0.	1162065.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		201.46	201.46	201.46	0.	0.	0.	0.	0.	201.46
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		9543.	8480.	1340.	0.	0.	0.	0.	0.	234114.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	171708.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	171708.
SUBTOTAL	\$/1,000		9543.	8480.	1340.	0.	0.	0.	0.	0.	405822.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	53593.00	43404.00	6313.00	0.	0.	0.	0.	0.	1397446.00
DISTANCE	M	43660.00	35200.00	17590.00	0.	0.	0.	0.	0.	28859.30
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.	0.	0.	0.	0.	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	26558.	17341.	1260.	0.	0.	0.	0.	0.	457738.
CONV. INCREASE	M	2820.00	0.	0.	0.	0.	0.	0.	0.	43660.00
UNIT PRICE 2	\$/M	4735.90	0.	0.	0.	0.	0.	0.	0.	4152.39
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	13355.	0.	0.	0.	0.	0.	0.	0.	181293.
SUBTOTAL	\$/1,000	39913.	17341.	1260.	0.	0.	0.	0.	0.	639031.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	7782.00	2720.00	0.	0.	0.	0.	0.	0.	413925.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	103.48	103.48	0.	0.	0.	0.	0.	0.	103.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	805.	281.	0.	0.	0.	0.	0.	0.	42833.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.
SUBTOTAL	\$/1,000	805.	281.	0.	0.	0.	0.	0.	0.	59363.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6114.00	6114.00	1834.00	0.	0.	0.	0.	0.	160798.00
OPERATING COST	\$/1,000	6114.	6114.	1834.	0.	0.	0.	0.	0.	160798.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	38293.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	38293.
SUBTOTAL	\$/1,000	6114.	6114.	1834.	0.	0.	0.	0.	0.	199091.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	44308.	32605.	4435.	0.	0.	0.	0.	0.	954813.
TOTAL CAPITAL COST	\$/1,000	13355.	0.	0.	0.	0.	0.	0.	0.	427948.
TOTAL COST	\$/1,000	57663.	32605.	4435.	0.	0.	0.	0.	0.	1382761.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	202.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	49.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	251.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES	0.	1375.00	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	1266.82	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	1742.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	1375.00	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	196.85	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	271.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	2013.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM	0.	0.	0.	10910.00	10910.00	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	71037.00	86141.00	98163.00	94590.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	90.13	90.13	90.13	90.13
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	6403.	7764.	8847.	8525.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	11343.00	11343.00	11343.00	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	11343.	11343.	11343.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	11343.	11343.	11343.	6403.	7764.	8847.	8525.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	15000.00	11500.00	11000.00	7700.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	1853.	1421.	1359.	951.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	7791.00	4709.00	2707.00	2518.00
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	7791.	4709.	2707.	2518.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	9644.	6130.	4066.	3469.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	16922.00	27209.00	33111.00	34806.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.89	67.89	67.89	67.89
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	1149.	1847.	2248.	2363.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	1149.	1847.	2248.	2363.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	956.25	1275.00	1275.00
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	956.	1275.	1275.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	2796.00	2796.00	2796.00	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	2796.	2796.	2796.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	2796.	2796.	2796.	956.	1275.	1275.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	15036.00	15036.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	15036.	15036.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	15036.	15036.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	9.10	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	25000.00	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	35.00	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	263.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	263.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		0.	0.	0.	0.	0.	1788.00	2168.00	2471.00	2381.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1066.63	1066.63	1066.63	1066.63
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	1907.	2312.	2636.	2540.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	1788.00	2168.00	2471.00	2381.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	191.69	191.69	191.69	191.69
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	343.	416.	474.	456.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	2250.	2728.	3109.	2996.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	3.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	33825.11	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	101.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	3.00	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	6915.90	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	21.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	122.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		0.	1944.	0.	21275.	21376.	11312.	14301.	16365.	15654.
TOTAL CAPITAL COST \$*1,000		0.	320.	11343.	14139.	14160.	11192.	5125.	18217.	18010.
TOTAL COST \$*1,000		0.	2264.	11343.	35414.	35536.	22504.	19425.	34582.	33665.

	YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	10715.00	10715.00	10715.00	10715.00	10715.00	10715.00	10715.00	10715.00	10715.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1347.88	1347.88	1347.88	1347.88	1347.88	1347.88	1347.88	1347.88	1347.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14443.	14443.	14443.	14443.	14443.	14443.	14443.	14443.	14443.
QUANTITY 3		10715.00	10715.00	10715.00	10715.00	10715.00	10715.00	10715.00	10715.00	10715.00
UNIT PRICE 2		295.42	295.42	295.42	295.42	295.42	295.42	295.42	295.42	295.42
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3165.	3165.	3165.	3165.	3165.	3165.	3165.	3165.	3165.
SUBTOTAL	\$/1,000	17608.	17608.	17608.	17608.	17608.	17608.	17608.	17608.	17608.

YEAR 5 6 7 8 9 10 11 12 13

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	88052.00	85424.00	90281.00	96471.00	91931.00	84778.00	82078.00	82382.00	90370.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	90.13	90.13	90.13	90.13	90.13	90.13	90.13	90.13	90.13
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7936.	7699.	8137.	8695.	8286.	7641.	7398.	7425.	8145.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	7936.	7699.	8137.	8695.	8286.	7641.	7398.	7425.	8145.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	9100.00	6200.00	4500.00	2800.00	700.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1124.	766.	556.	346.	86.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	2300.00	2231.75	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2300.	2232.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3424.	2998.	556.	346.	86.	0.	0.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	30468.00	32187.00	36070.00	40551.00	40485.00	38097.00	36883.00	37020.00	40610.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2068.	2185.	2449.	2753.	2749.	2586.	2504.	2513.	2757.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2068.	2185.	2449.	2753.	2749.	2586.	2504.	2513.	2757.

YEAR 5 6 7 8 9 10 11 12 13

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1275.00	1275.00	1275.00	1275.00	1275.00	1275.00	1275.00	1275.00	1275.00
OPERATING COST \$*1,000		1275.	1275.	1275.	1275.	1275.	1275.	1275.	1275.	1275.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		1275.	1275.	1275.	1275.	1275.	1275.	1275.	1275.	1275.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME	1000 CUM	0.	24012.00	24012.00	24012.00	24012.00	24012.00	24012.00	24012.00	24012.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	1718.85	1718.85	1718.85	1718.85	1718.85	1718.85	1718.85	1718.85
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	41273.	41273.	41273.	41273.	41273.	41273.	41273.	41273.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		15036.00	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		15036.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		15036.	41273.	41273.	41273.	41273.	41273.	41273.	41273.	41273.

	YEAR	5	6	7	8	9	10	11	12	13
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		140.00	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		140.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	140.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME	1000 LCM	2216.00	2150.00	2272.00	2428.00	2307.00	2134.00	2066.00	2074.00	2275.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 LCM	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2364.	2293.	2423.	2590.	2461.	2276.	2204.	2212.	2427.
VOLUME	1000 LCM	2216.00	2150.00	2272.00	2428.00	2307.00	2134.00	2066.00	2074.00	2275.00
UNIT PRICE 2	\$/1000 LCM	191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		425.	412.	436.	465.	442.	409.	396.	398.	436.
SUBTOTAL	\$*1,000	2788.	2705.	2859.	3055.	2903.	2685.	2600.	2610.	2863.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	29210.	69934.	70556.	71374.	70572.	69494.	69096.	69141.	70319.
TOTAL CAPITAL COST	\$*1,000	21066.	5809.	3601.	3631.	3608.	3574.	3561.	3563.	3602.
TOTAL COST	\$*1,000	50276.	75744.	74157.	75005.	74180.	73069.	72657.	72704.	73921.

		YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		3740.00	3740.00	3740.00	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		852.08	852.08	852.08	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		3187.	3187.	3187.	0.	0.	0.	0.	0.	0.
QUANTITY 3			3740.00	3740.00	3740.00	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			205.62	205.62	205.62	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		769.	769.	769.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		3956.	3956.	3956.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

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4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	91301.00	92728.00	102751.00	114221.00	91603.00	77689.00	87633.00	105751.00	112268.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	84.42	58.41	58.41	58.41	58.41	58.41	58.41	58.41	58.41
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	7708.	5416.	6002.	6672.	5351.	4538.	5119.	6177.	6558.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	7708.	5416.	6002.	6672.	5351.	4538.	5119.	6177.	6558.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	1000.00	0.	5740.00	3820.00	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	0.	123.56	123.56	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	124.	0.	709.	472.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	2802.13	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	2802.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	124.	0.	3511.	472.	0.	0.	0.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	40028.00	41669.00	40433.00	47508.00	41164.00	34911.00	39380.00	47522.00	50296.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89	67.89
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	2718.	2829.	2745.	3225.	2795.	2370.	2674.	3226.	3415.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	2718.	2829.	2745.	3225.	2795.	2370.	2674.	3226.	3415.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

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4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	1045.50	435.59	1013.00	1013.00	1013.00	1013.00	1013.00	1013.00	1013.00	1013.00
OPERATING COST \$*1,000	1046.	436.	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1013.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	1046.	436.	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1013.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME 1000 CUM	19690.00	0.	0.	21312.00	21312.00	21312.00	21312.00	21312.00	21312.00	21312.00
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	1718.85	0.	0.	1715.70	1715.70	1715.70	1715.70	1715.70	1715.70	1715.70
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	33844.	0.	0.	36565.	36565.	36565.	36565.	36565.	36565.	36565.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	33844.	0.	0.	36565.	36565.	36565.	36565.	36565.	36565.	36565.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

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4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	5.50	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	25000.00	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	45.50	150.50	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	183.	151.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	183.	151.	0.	0.	0.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME	1000 LCM	2298.00	2334.00	2586.00	2875.00	2306.00	1955.00	2206.00	2662.00	2817.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 LCM	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63	1066.63
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2451.	2490.	2758.	3067.	2460.	2085.	2353.	2839.	3005.
VOLUME	1000 LCM	2298.00	2334.00	2586.00	2875.00	2306.00	1955.00	2206.00	2662.00	2817.00
UNIT PRICE 2	\$/1000 LCM	191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69	191.69
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	441.	447.	496.	551.	442.	375.	423.	510.	540.
SUBTOTAL	\$*1,000	2892.	2937.	3254.	3618.	2902.	2460.	2776.	3350.	3545.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	5107.	14357.	16414.	51014.	48183.	46571.	47723.	49821.	50555.
TOTAL CAPITAL COST	\$*1,000	1210.	1399.	4217.	551.	442.	375.	423.	510.	540.
TOTAL COST	\$*1,000	52286.	15756.	20631.	51565.	48625.	46946.	48146.	50331.	51095.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	163.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1239.20.
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	202.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	163.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	49.
SUBTOTAL	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	251.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	1375.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	1742.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	1375.00
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	271.
SUBTOTAL	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	2013.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	129475.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1406.39
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	182092.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	107655.00
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	286.06
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	30796.
SUBTOTAL	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	212888.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	103739.00	92128.00	14296.00	0.	0.	0.	0.	0.	2227806.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	58.41	58.41	58.41	0.	0.	0.	0.	0.	75.73
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	6059.	5381.	835.	0.	0.	0.	0.	0.	168716.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	34029.00
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	34029.
SUBTOTAL	\$*1,000	6059.	5381.	835.	0.	0.	0.	0.	0.	202745.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	79060.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	9769.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	25058.88
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	25059.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	34828.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	46617.00	41400.00	6424.00	0.	0.	0.	0.	0.	921771.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.89	67.89	67.89	0.	0.	0.	0.	0.	67.89
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	3165.	2811.	436.	0.	0.	0.	0.	0.	62579.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	3165.	2811.	436.	0.	0.	0.	0.	0.	62579.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1013.00	1013.00	273.51	0.	0.	0.	0.	0.	25852.85
OPERATING COST \$*1,000		1013.	1013.	274.	0.	0.	0.	0.	0.	25853.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8388.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8388.
SUBTOTAL	\$*1,000	1013.	1013.	274.	0.	0.	0.	0.	0.	34241.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	21312.00	21312.00	5750.00	0.	0.	0.	0.	0.	388032.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	1715.70	1715.70	1715.70	0.	0.	0.	0.	0.	1717.42
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		36565.	36565.	9865.	0.	0.	0.	0.	0.	666414.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	45108.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	45108.
SUBTOTAL	\$*1,000	36565.	36565.	9865.	0.	0.	0.	0.	0.	711522.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 23 24 25 26 27 28 29 30 TOTALS

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	14.60
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	371.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	736.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	736.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		2611.00	2319.00	360.00	0.	0.	0.	0.	0.	56059.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1066.63	1066.63	1066.63	0.	0.	0.	0.	0.	1066.63
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2785.	2474.	384.	0.	0.	0.	0.	0.	59794.
VOLUME 1000 LCM		2611.00	2319.00	360.00	0.	0.	0.	0.	0.	56059.00
UNIT PRICE 2 \$/1000 LCM		191.69	191.69	191.69	0.	0.	0.	0.	0.	191.69
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		501.	445.	69.	0.	0.	0.	0.	0.	10746.
SUBTOTAL \$*1,000		3285.	2918.	453.	0.	0.	0.	0.	0.	70540.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	3.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	101.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	3.00
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	122.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		49587.	48243.	11794.	0.	0.	0.	0.	0.	1177261.
TOTAL CAPITAL COST \$*1,000		501.	445.	69.	0.	0.	0.	0.	0.	155202.
TOTAL COST \$*1,000		50088.	48688.	11863.	0.	0.	0.	0.	0.	1332464.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES.

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	323.40	323.40	323.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	199.	199.	199.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	323.40	323.40	323.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	48.	48.	48.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	247.	247.	247.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	323.40	323.40	323.40
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	2.00	2.00	2.00
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	145.	145.	145.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	646.80	646.80	646.80
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	27.	27.	27.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	173.	173.	173.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	323.40	323.40	323.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	53.	53.	53.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	323.40	323.40	323.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	9.	9.	9.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	61.	61.	61.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	2.50	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	85.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	2.50	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	17.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	102.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	646.70	646.70	646.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	350.	350.	350.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	646.70	646.70	646.70
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	85.	85.	85.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	435.	435.	435.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	646.70	646.70	646.70
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.80	0.80	0.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	92.	92.	92.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	517.40	517.40	517.40
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	18.	18.	18.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	110.	110.	110.

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 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

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5.7 OVERBURDEN REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	646.70	646.70	646.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	140.93	140.93	140.93
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	91.	91.	91.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	646.70	646.70	646.70
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	22.92	22.92	22.92
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	15.	15.	15.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	106.	106.	106.

5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

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5.10 PREPARED SOIL MANUFACTURE

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	970.00	970.00	970.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	211.57	211.57	211.57
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	205.	205.	205.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	970.00	970.00	970.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	47.66	47.66	47.66
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	46.	46.	46.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	251.	251.	251.

5.11 PREPARED SOIL LOADING, F.F.L. TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	970.00	970.00	970.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	430.12	430.12	430.12
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	417.	417.	417.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	970.00	970.00	970.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	115.03	115.03	115.03
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	112.	112.	112.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	529.	529.	529.

5.12 PREPARED SOIL TRANSPORT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	970.00	970.00	970.00
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.80	0.80	0.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	212.40	212.40	212.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	165.	165.	165.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	776.00	776.00	776.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	131.26	131.26	131.26
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	102.	102.	102.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	267.	267.	267.

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 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

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5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	970.00	970.00	970.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	146.	146.	146.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	970.00	970.00	970.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	24.	24.	24.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	170.	170.	170.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	5.82	5.82	5.82
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	197.	197.	197.
LENGTH	KM	0.	0.	0.	0.	0.	0.	5.82	5.82	5.82
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	40.	40.	40.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	237.	237.	237.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	0.	0.	0.	0.	0.	0.	97.00	97.00	97.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	48.65	97.29	145.94
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	123.	172.	220.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	123.	172.	220.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	2269.	2233.	2281.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	543.	525.	525.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	2811.	2758.	2807.

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TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

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5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	288.00	288.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	177.	177.	332.	332.	332.	332.	332.	332.	332.
VOLUME	1000 BCM	288.00	288.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	43.	43.	80.	80.	80.	80.	80.	80.	80.
SUBTOTAL	\$/1,000	220.	220.	413.	413.	413.	413.	413.	413.	413.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	288.00	288.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00
HAUL DISTANCE	KM	1.00	1.00	1.80	1.80	1.80	1.80	1.80	1.80	1.80
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	65.	65.	218.	218.	218.	218.	218.	218.	218.
VOLUME*DISTANCE	1000 BCM*KM	288.00	288.00	972.00	972.00	972.00	972.00	972.00	972.00	972.00
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	12.	12.	41.	41.	41.	41.	41.	41.	41.
SUBTOTAL	\$/1,000	77.	77.	259.	259.	259.	259.	259.	259.	259.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	288.00	288.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	47.	47.	88.	88.	88.	88.	88.	88.	88.
VOLUME	1000 BCM	288.00	288.00	540.00	540.00	540.00	540.00	540.00	540.00	540.00
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	8.	14.	14.	14.	14.	14.	14.	14.
SUBTOTAL	\$/1,000	55.	55.	103.	103.	103.	103.	103.	103.	103.

YEAR 14 15 16 17 18 19 20 21 22

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	1.80	0.	1.70	0.	1.00	0.	1.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	33825.11	0.	33825.11	0.	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	61.	0.	58.	0.	34.	0.	34.	0.	0.
DISTANCE	KM	1.80	0.	1.70	0.	1.00	0.	1.00	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	6915.90	0.	6915.90	0.	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	12.	0.	12.	0.	7.	0.	7.	0.	0.
SUBTOTAL	\$/1,000	73.	0.	69.	0.	41.	0.	41.	0.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	577.00	577.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	312.	312.	585.	585.	585.	585.	585.	585.	585.
VOLUME	1000 BCM	577.00	577.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	76.	76.	142.	142.	142.	142.	142.	142.	142.
SUBTOTAL	\$/1,000	388.	388.	727.	727.	727.	727.	727.	727.	727.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	577.00	577.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00
HAUL DISTANCE	KM	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	52.	52.	96.	96.	96.	96.	96.	96.	96.
VOLUME*DISTANCE	1000 BCM*KM	288.50	288.50	540.00	540.00	540.00	540.00	540.00	540.00	540.00
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	10.	10.	18.	18.	18.	18.	18.	18.	18.
SUBTOTAL	\$/1,000	61.	61.	115.	115.	115.	115.	115.	115.	115.

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	577.00	577.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	81.	81.	152.	152.	152.	152.	152.	152.	152.
VOLUME	1000 BCM	577.00	577.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00	1080.00
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	13.	13.	25.	25.	25.	25.	25.	25.	25.
SUBTOTAL	\$/1,000	95.	95.	177.	177.	177.	177.	177.	177.	177.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	3.00	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	33825.11	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	101.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	3.00	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	6915.90	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	21.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	122.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		865.00	865.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		183.	183.	343.	343.	343.	343.	343.	343.	343.
VOLUME	1000 BCM		865.00	865.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00
UNIT PRICE 2	\$/1000 BCM		47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		41.	41.	77.	77.	77.	77.	77.	77.	77.
SUBTOTAL	\$/1000		224.	224.	420.	420.	420.	420.	420.	420.	420.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM		865.00	865.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		372.	372.	697.	697.	697.	697.	697.	697.	697.
VOLUME	1000 BCM		865.00	865.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00
UNIT PRICE 2	\$/1000 BCM		115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		100.	100.	186.	186.	186.	186.	186.	186.	186.
SUBTOTAL	\$/1000		472.	472.	883.	883.	883.	883.	883.	883.	883.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM		865.00	865.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00
HAUL DISTANCE	KM		0.70	0.70	5.00	5.00	5.00	6.00	6.00	6.00	7.00
UNIT PRICE 1	\$/1000 BCM*KM		212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		129.	129.	1720.	1720.	1720.	2065.	2065.	2065.	2409.
VOLUME*DISTANCE	1000 BCM*KM		605.50	605.50	8100.00	8100.00	8100.00	9720.00	9720.00	9720.00	11340.00
UNIT PRICE 2	\$/1000 BCM*KM		149.31	149.31	25.12	25.12	25.12	21.75	21.75	21.75	19.34
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		90.	90.	203.	203.	203.	211.	211.	211.	219.
SUBTOTAL	\$/1000		219.	219.	1924.	1924.	1924.	2276.	2276.	2276.	2628.

YEAR 14 15 16 17 18 19 20 21 22

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	865.00	865.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	130.	130.	244.	244.	244.	244.	244.	244.	244.
VOLUME	1000 BCM	865.00	865.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00	1620.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	21.	40.	40.	40.	40.	40.	40.	40.
SUBTOTAL	\$/1,000	151.	151.	284.	284.	284.	284.	284.	284.	284.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	3.15	3.15	10.72	9.72	9.72	9.72	9.72	9.72	9.72
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	107.	107.	363.	329.	329.	329.	329.	329.	329.
LENGTH	KM	3.15	3.15	10.72	9.72	9.72	9.72	9.72	9.72	9.72
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	22.	22.	74.	67.	67.	67.	67.	67.	67.
SUBTOTAL	\$/1,000	128.	128.	437.	396.	396.	396.	396.	396.	396.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	86.50	86.50	162.00	162.00	162.00	162.00	162.00	162.00	162.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	289.32	232.70	331.60	412.83	494.08	575.52	656.56	737.81	819.05
OPERATING COST	\$/1,000	356.	299.	456.	537.	619.	700.	781.	862.	943.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	356.	299.	456.	537.	619.	700.	781.	862.	943.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	2071.	1954.	5454.	5342.	5457.	5849.	5964.	6011.	6436.
TOTAL CAPITAL COST	\$/1,000	448.	436.	935.	895.	902.	903.	910.	903.	911.
TOTAL COST	\$/1,000	2520.	2390.	6388.	6237.	6359.	6752.	6874.	6914.	7348.

YEAR 23 24 25 26 27 28 29 30 TOTALS

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	540.00	700.00	700.00	740.00	740.00	740.00	740.00	1000.00	11226.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	332.	431.	431.	455.	455.	455.	455.	615.	6906.
VOLUME	1000 BCM	540.00	700.00	700.00	740.00	740.00	740.00	740.00	1000.00	11226.20
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	80.	104.	104.	110.	110.	110.	110.	149.	1673.
SUBTOTAL	\$/1000	413.	535.	535.	566.	566.	566.	566.	764.	8579.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	540.00	700.00	700.00	740.00	740.00	740.00	740.00	1000.00	11226.20
HAUL DISTANCE	KM	1.80	2.00	2.00	3.00	3.00	3.00	3.00	3.10	2.23
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	218.	314.	314.	498.	498.	498.	498.	696.	5630.
VOLUME*DISTANCE	1000 BCM*KM	972.00	1400.00	1400.00	2220.00	2220.00	2220.00	2220.00	3100.00	25072.40
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	41.	59.	59.	94.	94.	94.	94.	132.	1064.
SUBTOTAL	\$/1000	259.	374.	374.	593.	593.	593.	593.	828.	6693.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	540.00	700.00	700.00	740.00	740.00	740.00	740.00	1000.00	11226.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	88.	114.	114.	121.	121.	121.	121.	163.	1833.
VOLUME	1000 BCM	540.00	700.00	700.00	740.00	740.00	740.00	740.00	1000.00	11226.20
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	14.	19.	19.	20.	20.	20.	20.	27.	299.
SUBTOTAL	\$/1000	103.	133.	133.	140.	140.	140.	140.	190.	2131.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	2.00	0.	3.20	0.	3.50	0.	0.90	17.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	33825.11	0.	33825.11	0.	33825.11	0.	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	68.	0.	108.	0.	118.	0.	30.	595.
DISTANCE	KM	0.	2.00	0.	3.20	0.	3.50	0.	0.90	17.60
UNIT PRICE 2	\$/KM	0.	6915.90	0.	6915.90	0.	6915.90	0.	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	14.	0.	22.	0.	24.	0.	6.	122.
SUBTOTAL	\$/1,000	0.	81.	0.	130.	0.	143.	0.	37.	717.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	1080.00	1400.00	1400.00	1480.00	1480.00	1480.00	1480.00	2000.00	22454.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	585.	758.	758.	802.	802.	802.	802.	1083.	12160.
VOLUME	1000 BCM	1080.00	1400.00	1400.00	1480.00	1480.00	1480.00	1480.00	2000.00	22454.10
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	142.	184.	184.	195.	195.	195.	195.	263.	2953.
SUBTOTAL	\$/1,000	727.	942.	942.	996.	996.	996.	996.	1346.	15114.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	1080.00	1400.00	1400.00	1480.00	1480.00	1480.00	1480.00	2000.00	22454.10
HAUL DISTANCE	KM	0.50	0.50	0.50	2.80	2.80	2.80	2.80	3.00	1.35
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	96.	125.	125.	740.	740.	740.	740.	1071.	5433.
VOLUME*DISTANCE	1000 BCM*KM	540.00	700.00	700.00	4144.00	4144.00	4144.00	4144.00	6000.00	30425.20
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	18.	24.	24.	141.	141.	141.	141.	204.	1034.
SUBTOTAL	\$/1,000	115.	149.	149.	881.	881.	881.	881.	1275.	6467.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM		1080.00	1400.00	1400.00	1480.00	1480.00	1480.00	1480.00	2000.00	22454.10
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		152.	197.	197.	209.	209.	209.	209.	282.	3164.
VOLUME	1000 BCM		1080.00	1400.00	1400.00	1480.00	1480.00	1480.00	1480.00	2000.00	22454.10
UNIT PRICE 2	\$/1000 BCM		22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		25.	32.	32.	34.	34.	34.	34.	46.	515.
SUBTOTAL	\$/1,000		177.	229.	229.	242.	242.	242.	242.	328.	3679.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM		0.	0.	0.	3.50	0.	1.00	0.	1.50	9.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	33825.11	0.	33825.11	0.	33825.11	33825.11
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	118.	0.	34.	0.	51.	304.
DISTANCE	KM		0.	0.	0.	3.50	0.	1.00	0.	1.50	9.00
UNIT PRICE 2	\$/KM		0.	0.	0.	6915.90	0.	6915.90	0.	6915.90	6915.90
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	24.	0.	7.	0.	10.	62.
SUBTOTAL	\$/1,000		0.	0.	0.	143.	0.	41.	0.	61.	367.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1620.00	2100.00	2100.00	2200.00	2200.00	2200.00	2200.00	3000.00	33600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000	343.	444.	444.	465.	465.	465.	465.	635.	7109.
VOLUME	1000 BCM	1620.00	2100.00	2100.00	2200.00	2200.00	2200.00	2200.00	3000.00	33600.00
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000	77.	100.	100.	105.	105.	105.	105.	143.	1601.
SUBTOTAL	\$*1.000	420.	544.	544.	570.	570.	570.	570.	778.	8710.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	1620.00	2100.00	2100.00	2200.00	2200.00	2200.00	2200.00	3000.00	33600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000	697.	903.	903.	946.	946.	946.	946.	1290.	14452.
VOLUME	1000 BCM	1620.00	2100.00	2100.00	2200.00	2200.00	2200.00	2200.00	3000.00	33600.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000	186.	242.	242.	253.	253.	253.	253.	345.	3865.
SUBTOTAL	\$*1.000	883.	1145.	1145.	1199.	1199.	1199.	1199.	1635.	18317.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	1620.00	2100.00	2100.00	2200.00	2200.00	2200.00	2200.00	3000.00	33600.00
HAUL DISTANCE	KM	7.00	1.00	2.60	2.00	2.00	3.00	4.50	1.00	3.44
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000	2409.	446.	1160.	935.	935.	1402.	2103.	637.	24540.
VOLUME*DISTANCE	1000 BCM*KM	11340.00	2100.00	5460.00	4400.00	4400.00	6600.00	9900.00	3000.00	115539.00
UNIT PRICE 2	\$/1000 BCM*KM	19.34	105.98	43.78	55.44	55.44	38.59	27.36	105.98	34.30
ADDITIONAL COST	\$*1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000	219.	223.	239.	244.	244.	255.	271.	318.	3963.
SUBTOTAL	\$*1.000	2628.	669.	1399.	1178.	1178.	1657.	2374.	955.	28503.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS											
VOLUME	1000 BCM		1620.00	2100.00	2100.00	2200.00	2200.00	2200.00	2200.00	3000.00	33600.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		244.	316.	316.	331.	331.	331.	331.	452.	5059.
VOLUME	1000 BCM		1620.00	2100.00	2100.00	2200.00	2200.00	2200.00	2200.00	3000.00	33600.00
UNIT PRICE 2	\$/1000 BCM		24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		40.	51.	51.	54.	54.	54.	54.	74.	824.
SUBTOTAL	\$/1000		284.	368.	368.	385.	385.	385.	385.	525.	5883.
5.14 PREPARED SOIL ROAD CONSTRUCTION											
LENGTH	KM		9.72	12.60	12.60	13.32	13.32	13.32	13.32	18.00	199.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		329.	426.	426.	451.	451.	451.	451.	609.	6731.
LENGTH	KM		9.72	12.60	12.60	13.32	13.32	13.32	13.32	18.00	199.00
UNIT PRICE 2	\$/KM		6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		67.	87.	87.	92.	92.	92.	92.	124.	1376.
SUBTOTAL	\$/1000		396.	513.	513.	543.	543.	543.	543.	733.	8107.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE											
AREA	HECTARES		162.00	210.00	210.00	220.00	220.00	220.00	220.00	300.00	3360.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1000		900.29	1058.56	1163.88	1274.21	1313.93	1424.26	1534.59	1685.04	15196.11
OPERATING COST	\$/1000		1025.	1220.	1325.	1443.	1483.	1593.	1704.	1915.	17777.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		1025.	1220.	1325.	1443.	1483.	1593.	1704.	1915.	17777.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1000		6518.	5763.	6515.	7622.	7436.	8165.	8824.	9530.	111694.
TOTAL CAPITAL COST	\$/1000		911.	1139.	1142.	1388.	1342.	1383.	1368.	1841.	19351.
TOTAL COST	\$/1000		7429.	6902.	7656.	9010.	8777.	9549.	10193.	11371.	131045.

YEAR -5 -4 -3 -2 -1 1 2 3 4

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	4.00	8.00	20.00	39.00	59.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

YEAR 14 15 16 17 18 19 20 21 22

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

YEAR 23 24 25 26 27 28 29 30 TOTALS

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.

6.2 PLANNING

NO. OF PERSONS	PERSONS	78.00	78.00	78.00	18.00	18.00	18.00	18.00	18.00	2170.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.

6.3 MINING

NO. OF PERSONS	PERSONS	70.00	70.00	70.00	5.00	5.00	5.00	5.00	5.00	1891.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.

YEAR -5 -4 -3 -2 -1 1 2 3 4

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	0.	0.	0.	1214.	1274.	1331.	1331.	1331.	1331.
CAPITAL COST	\$*1,000	0.	10894.	12650.	0.	1755.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	10894.	12650.	1214.	3029.	1331.	1331.	1331.	1331.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	4418.	3137.	3456.	2301.	3364.	1665.	1355.	999.	567.
CAPITAL COST	\$*1,000	774.	575.	621.	424.	624.	307.	252.	183.	103.
SUBTOTAL	\$*1,000	5192.	3713.	4078.	2726.	3989.	1972.	1607.	1182.	670.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	0.	0.	0.	10912.	11068.	30853.	34238.	38473.	40368.
CAPITAL COST	\$*1,000	12218.	12218.	69454.	89151.	61078.	68169.	5451.	5416.	13577.
SUBTOTAL	\$*1,000	12218.	12218.	69454.	100063.	72146.	99022.	39689.	43888.	53945.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	0.	1944.	0.	21275.	21376.	11312.	14301.	16365.	15654.
CAPITAL COST	\$*1,000	0.	320.	11343.	14139.	14160.	11192.	5125.	18217.	18010.
SUBTOTAL	\$*1,000	0.	2264.	11343.	35414.	35536.	22504.	19425.	34582.	33665.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	4746.	5798.	5249.	39197.	42370.	52152.	58216.	64158.	64911.
TOTAL CAPITAL COST	\$*1,000	12992.	24007.	94068.	103715.	77617.	79668.	10828.	23815.	31691.
TOTAL COST	\$*1,000	17738.	29805.	99317.	142912.	119988.	131820.	69044.	87974.	96601.

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	458.	683.	714.	1631.	2454.	2034.	1576.	2943.	200.
CAPITAL COST	\$*1,000	77.	115.	125.	296.	447.	366.	289.	542.	31.
SUBTOTAL	\$*1,000	534.	799.	839.	1927.	2901.	2399.	1865.	3485.	231.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	41867.	37717.	37083.	36629.	33518.	36640.	36499.	38155.	45792.
CAPITAL COST	\$*1,000	4483.	723.	0.	0.	5723.	0.	0.	17618.	8963.
SUBTOTAL	\$*1,000	46350.	38440.	37083.	36629.	39241.	36640.	36499.	55773.	54756.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	29210.	69934.	70556.	71374.	70572.	69494.	69096.	69141.	70319.
CAPITAL COST	\$*1,000	21066.	5809.	3601.	3631.	3608.	3574.	3561.	3563.	3602.
SUBTOTAL	\$*1,000	50276.	75744.	74157.	75005.	74180.	73069.	72657.	72704.	73921.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	2269.	2233.	2281.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	543.	525.	525.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	2811.	2758.	2807.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	79857.	116657.	116675.	117956.	114866.	116490.	117762.	120794.	126915.
TOTAL CAPITAL COST	\$*1,000	25626.	6648.	3726.	3926.	9777.	3940.	4393.	22248.	13121.
TOTAL COST	\$*1,000	105483.	123305.	120401.	121882.	124643.	120430.	122156.	143042.	140037.

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.	1331.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	148.	146.	119.	142.	797.	1615.	1723.	999.	0.
CAPITAL COST	\$*1,000	23.	23.	19.	23.	145.	301.	324.	186.	0.
SUBTOTAL	\$*1,000	171.	169.	138.	164.	943.	1916.	2047.	1185.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	35650.	36139.	41228.	47810.	40208.	35250.	38468.	43142.	45758.
CAPITAL COST	\$*1,000	7241.	0.	0.	0.	0.	5723.	723.	9330.	17333.
SUBTOTAL	\$*1,000	42891.	36139.	41228.	47810.	40208.	40973.	39191.	52472.	63091.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	51076.	14357.	16414.	51014.	48183.	46571.	47723.	49821.	50555.
CAPITAL COST	\$*1,000	1210.	1399.	4217.	551.	442.	375.	423.	510.	540.
SUBTOTAL	\$*1,000	52286.	15756.	20631.	51565.	48625.	46946.	48146.	50331.	51095.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	2071.	1954.	5454.	5342.	5457.	5849.	5964.	6011.	6436.
CAPITAL COST	\$*1,000	448.	436.	935.	895.	902.	903.	910.	903.	911.
SUBTOTAL	\$*1,000	2520.	2390.	6388.	6237.	6359.	6752.	6874.	6914.	7348.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	97268.	60919.	71537.	112630.	102967.	97608.	102200.	108294.	111071.
TOTAL CAPITAL COST	\$*1,000	8922.	1858.	5171.	1469.	1489.	7302.	2380.	10929.	18784.
TOTAL COST	\$*1,000	106190.	62777.	76707.	114099.	104456.	104909.	104580.	119224.	129856.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1331.	1331.	563.	41.	41.	41.	41.	41.	35200.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	25299.
SUBTOTAL	\$*1,000	1331.	1331.	563.	41.	41.	41.	41.	41.	60499.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	39644.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	7194.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	46839.
COST CENTRE 3: OVERBURDEN REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	44308.	32605.	4435.	0.	0.	0.	0.	0.	954813.
CAPITAL COST	\$*1,000	13355.	0.	0.	0.	0.	0.	0.	0.	427948.
SUBTOTAL	\$*1,000	57663.	32605.	4435.	0.	0.	0.	0.	0.	1382761.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	49587.	48243.	11794.	0.	0.	0.	0.	0.	1177261.
CAPITAL COST	\$*1,000	501.	445.	69.	0.	0.	0.	0.	0.	155202.
SUBTOTAL	\$*1,000	50088.	48688.	11863.	0.	0.	0.	0.	0.	1332464.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	6518.	5763.	6515.	7622.	7436.	8165.	8824.	9530.	111694.
CAPITAL COST	\$*1,000	911.	1139.	1142.	1388.	1342.	1383.	1368.	1841.	19351.
SUBTOTAL	\$*1,000	7429.	6902.	7656.	9010.	8777.	9549.	10193.	11371.	131045.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	108735.	94934.	30297.	8886.	8699.	9429.	10088.	10794.	2511127.
TOTAL CAPITAL COST	\$*1,000	14767.	1584.	1211.	1388.	1342.	1383.	1368.	1841.	634995.
TOTAL COST	\$*1,000	123502.	96517.	31508.	10274.	10041.	10812.	11457.	12635.	3146122.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	0.	0.	0.	829.	791.	751.	683.	621.	564.
CAPITAL COST	\$*1,000	0.	9003.	9504.	0.	1090.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	9003.	9504.	829.	1881.	751.	683.	621.	564.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	4016.	2593.	2597.	1572.	2089.	940.	695.	466.	240.
CAPITAL COST	\$*1,000	704.	475.	467.	290.	388.	173.	129.	85.	44.
SUBTOTAL	\$*1,000	4720.	3068.	3064.	1862.	2477.	1113.	825.	551.	284.

COST CENTRE 3: OVERBURDEN REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	0.	0.	0.	7453.	6872.	17416.	17570.	17948.	17120.
CAPITAL COST	\$*1,000	11107.	10098.	52182.	60892.	37925.	38480.	2797.	2526.	5758.
SUBTOTAL	\$*1,000	11107.	10098.	52182.	68345.	44797.	55896.	20367.	20474.	22878.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	0.	1607.	0.	14531.	13273.	6385.	7339.	7634.	6639.
CAPITAL COST	\$*1,000	0.	264.	8522.	9657.	8792.	6318.	2630.	8498.	7638.
SUBTOTAL	\$*1,000	0.	1871.	8522.	24188.	22065.	12703.	9968.	16133.	14277.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	4315.	4792.	3944.	26772.	26309.	29438.	29874.	29930.	27529.
TOTAL CAPITAL COST	\$*1,000	11811.	19840.	70675.	70838.	48194.	44971.	5556.	11110.	13440.
TOTAL COST	\$*1,000	16126.	24632.	74619.	97611.	74503.	74409.	35430.	41040.	40968.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	513.	467.	424.	386.	350.	319.	290.	263.	239.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	513.	467.	424.	386.	350.	319.	290.	263.	239.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	176.	239.	227.	472.	646.	487.	343.	582.	36.
CAPITAL COST	\$*1,000	30.	40.	40.	86.	118.	88.	63.	107.	6.
SUBTOTAL	\$*1,000	206.	280.	267.	558.	764.	574.	406.	689.	42.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	16142.	13220.	11816.	10610.	8826.	8771.	7943.	7549.	8236.
CAPITAL COST	\$*1,000	1728.	253.	0.	0.	1507.	0.	0.	3486.	1612.
SUBTOTAL	\$*1,000	17870.	13473.	11816.	10610.	10333.	8771.	7943.	11034.	9848.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	11262.	24512.	22481.	20675.	18584.	16636.	15037.	13679.	12648.
CAPITAL COST	\$*1,000	8122.	2036.	1147.	1052.	950.	856.	775.	705.	648.
SUBTOTAL	\$*1,000	19384.	26548.	23629.	21726.	19534.	17492.	15812.	14384.	13295.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	494.	442.	410.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	118.	104.	95.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	612.	546.	505.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	30788.	40888.	37176.	34168.	30248.	27887.	25629.	23898.	22827.
TOTAL CAPITAL COST	\$*1,000	9880.	2330.	1187.	1137.	2575.	943.	956.	4402.	2360.
TOTAL COST	\$*1,000	40668.	43218.	38363.	35305.	32822.	28830.	26585.	28300.	25187.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	218.	198.	180.	164.	149.	135.	123.	112.	102.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	218.	198.	180.	164.	149.	135.	123.	112.	102.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	24.	22.	16.	17.	89.	164.	159.	84.	0.
CAPITAL COST	\$*1,000	4.	3.	3.	3.	16.	31.	30.	16.	0.
SUBTOTAL	\$*1,000	28.	25.	19.	20.	105.	195.	189.	99.	0.
COST CENTRE 3: OVERBURDEN REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	5829.	5372.	5571.	5873.	4490.	3579.	3550.	3620.	3490.
CAPITAL COST	\$*1,000	1184.	0.	0.	0.	0.	581.	67.	783.	1322.
SUBTOTAL	\$*1,000	7013.	5372.	5571.	5873.	4490.	4160.	3617.	4403.	4812.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	8351.	2134.	2218.	6267.	5381.	4728.	4405.	4180.	3856.
CAPITAL COST	\$*1,000	198.	208.	570.	68.	49.	38.	39.	43.	41.
SUBTOTAL	\$*1,000	8549.	2342.	2788.	6335.	5430.	4766.	4444.	4223.	3897.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	339.	290.	737.	656.	609.	594.	550.	504.	491.
CAPITAL COST	\$*1,000	73.	65.	126.	110.	101.	92.	84.	76.	69.
SUBTOTAL	\$*1,000	412.	355.	863.	766.	710.	685.	634.	580.	560.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1143.	1039.	945.	859.	781.	710.	645.	587.	533.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1143.	1039.	945.	859.	781.	710.	645.	587.	533.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	15904.	9055.	9667.	13836.	11499.	9910.	9433.	9086.	8472.
TOTAL CAPITAL COST	\$*1,000	1459.	276.	699.	180.	166.	741.	220.	917.	1433.
TOTAL COST	\$*1,000	17363.	9331.	10366.	14017.	11665.	10651.	9652.	10004.	9905.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	92.	84.	32.	2.	2.	2.	2.	1.	9087.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	19597.
SUBTOTAL	\$*1,000	92.	84.	32.	2.	2.	2.	2.	1.	28684.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	18994.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	3436.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	22430.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	3072.	2055.	254.	0.	0.	0.	0.	0.	224248.
CAPITAL COST	\$*1,000	926.	0.	0.	0.	0.	0.	0.	0.	235214.
SUBTOTAL	\$*1,000	3999.	2055.	254.	0.	0.	0.	0.	0.	459462.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	3439.	3041.	676.	0.	0.	0.	0.	0.	261597.
CAPITAL COST	\$*1,000	35.	28.	4.	0.	0.	0.	0.	0.	69931.
SUBTOTAL	\$*1,000	3473.	3069.	680.	0.	0.	0.	0.	0.	331528.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	452.	363.	373.	397.	352.	352.	345.	339.	9091.
CAPITAL COST	\$*1,000	63.	72.	65.	72.	64.	60.	54.	65.	1628.
SUBTOTAL	\$*1,000	515.	435.	439.	469.	416.	411.	399.	405.	10719.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	7540.	5985.	1736.	463.	412.	406.	395.	384.	570594.
TOTAL CAPITAL COST	\$*1,000	1024.	100.	69.	72.	64.	60.	54.	65.	329805.
TOTAL COST	\$*1,000	8564.	6084.	1806.	535.	476.	466.	448.	450.	900399.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

7.0

120,000 BPCD

Dragline Mine

Enhanced Level

	YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1230.00	1230.00	1230.00	1230.00	1230.00	1230.00	1230.00	1230.00	1230.00
OPERATING COST \$*1,000		1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		238.	238.	238.	238.	238.	238.	238.	238.	238.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		238.	238.	238.	238.	238.	238.	238.	238.	238.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	1230.00	1230.00	1230.00	1230.00	1230.00	1230.00
OPERATING COST \$*1,000		0.	0.	0.	1230.	1230.	1230.	1230.	1230.	1230.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	14774.00	14774.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	14774.	14774.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	14774.	14774.	1230.	1230.	1230.	1230.	1230.	1230.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		0.	0.	0.	119.00	180.00	238.00	238.00	238.00	238.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	119.	180.	238.	238.	238.	238.
NO. OF PERSONS PERSONS		0.	0.	119.00	0.	119.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1785.	0.	1785.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	1785.	119.	1965.	238.	238.	238.	238.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		0.	0.	0.	1349.	1410.	1468.	1468.	1468.	1468.
TOTAL CAPITAL COST \$*1,000		0.	14774.	16559.	0.	1785.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	14774.	16559.	1349.	3195.	1468.	1468.	1468.	1468.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1230.00	1230.00	1230.00	1230.00	1230.00	1230.00	1230.00	1230.00	1230.00
OPERATING COST \$*1,000		1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.	1230.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		238.	238.	238.	238.	238.	238.	238.	238.	238.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	238.	238.	238.	238.	238.	238.	238.	238.	238.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1230.00	1230.00	369.00	0.	0.	0.	0.	0.	32349.00
OPERATING COST \$*1,000		1230.	1230.	369.	0.	0.	0.	0.	0.	32349.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	29548.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	29548.
SUBTOTAL	\$*1,000	1230.	1230.	369.	0.	0.	0.	0.	0.	61897.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		238.00	238.00	238.00	43.00	43.00	43.00	43.00	43.00	6464.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		238.	238.	238.	43.	43.	43.	43.	43.	6464.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	238.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3570.
SUBTOTAL	\$*1,000	238.	238.	238.	43.	43.	43.	43.	43.	10034.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1468.	1468.	607.	43.	43.	43.	43.	43.	38813.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	33118.
TOTAL COST \$*1,000		1468.	1468.	607.	43.	43.	43.	43.	43.	71931.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING										
AREA	HECTARES	870.36	155.78	441.92	86.43	181.55	81.22	84.63	85.30	105.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	1103.	197.	560.	109.	230.	103.	107.	108.	133.
AREA	HECTARES	870.36	155.78	441.92	86.43	181.55	81.22	84.63	85.30	105.30
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	171.	31.	87.	17.	36.	16.	17.	17.	21.
SUBTOTAL	\$/1000	1274.	228.	647.	127.	266.	119.	124.	125.	154.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	247.10	53.20	64.60	33.50	22.50	18.30	8.50	7.20	11.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	457.	98.	120.	62.	42.	34.	16.	13.	21.
DITCH VOLUME	1000 BCM	247.10	53.20	64.60	33.50	22.50	18.30	8.50	7.20	11.30
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	74.	16.	19.	10.	7.	5.	3.	2.	3.
SUBTOTAL	\$/1000	531.	114.	139.	72.	48.	39.	18.	15.	24.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	1343.	1310.	1268.	911.	1145.	595.	416.	324.	126.
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	327.	319.	308.	221.	278.	145.	101.	79.	31.
SUBTOTAL	\$/1000	1670.	1629.	1577.	1132.	1424.	740.	518.	403.	157.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
HAUL DISTANCE	KM	1.50	1.40	1.90	2.00	3.20	3.20	3.50	3.60	2.70
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	613.	540.	710.	537.	1079.	561.	429.	344.	100.
VOLUME*DISTANCE	1000 BCM*KM	2414.00	2154.00	2829.00	2140.00	4340.00	2236.00	1711.00	1370.00	399.90
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	118.	105.	138.	104.	211.	109.	83.	67.	19.
SUBTOTAL	\$/1000	731.	645.	848.	641.	1291.	670.	513.	410.	120.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	756.	738.	714.	513.	645.	335.	234.	182.	71.
VOLUME	1000 BCM	1577.60	1538.70	1489.80	1070.00	1345.00	698.80	489.00	380.60	148.10
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	55.	53.	52.	37.	47.	24.	17.	13.	5.
SUBTOTAL	\$/1000	811.	791.	766.	550.	691.	359.	251.	196.	76.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	4.30	7.50	2.50	5.00	6.60	1.10	4.50	0.80	3.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	145.	254.	85.	169.	223.	37.	152.	27.	115.
LENGTH	KM	4.30	7.50	2.50	5.00	6.60	1.10	4.50	0.80	3.40
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	30.	52.	17.	35.	46.	8.	31.	6.	24.
SUBTOTAL	\$/1000	175.	306.	102.	204.	269.	45.	183.	33.	139.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1000	4418.	3137.	3456.	2301.	3364.	1665.	1355.	999.	567.
TOTAL CAPITAL COST	\$/1000	774.	575.	621.	424.	624.	307.	252.	183.	103.
TOTAL COST	\$/1000	5192.	3713.	4078.	2726.	3989.	1972.	1607.	1182.	670.

YEAR 5 6 7 8 9 10 11 12 13

2.1 CLEARING

AREA	HECTARES	198.17	239.61	124.87	123.26	150.11	186.00	50.75	53.08	157.92
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	251.	304.	158.	156.	190.	236.	64.	67.	200.
AREA	HECTARES	198.17	239.61	124.87	123.26	150.11	186.00	50.75	53.08	157.92
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	39.	47.	25.	24.	30.	37.	10.	10.	31.
SUBTOTAL	\$/1,000	290.	351.	183.	180.	220.	272.	74.	78.	231.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	19.50	59.20	62.40	46.90	44.60	79.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	36.	110.	115.	87.	83.	146.	0.	0.	0.
DITCH VOLUME	1000 BCM	19.50	59.20	62.40	46.90	44.60	79.00	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	18.	19.	14.	13.	24.	0.	0.	0.
SUBTOTAL	\$/1,000	42.	127.	134.	101.	96.	170.	0.	0.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	77.	120.	208.	663.	1067.	831.	792.	1401.	0.
VOLUME	1000 BCM	90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	19.	29.	51.	161.	260.	202.	193.	341.	0.
SUBTOTAL	\$/1,000	95.	149.	258.	824.	1327.	1033.	984.	1741.	0.

		YEAR	5	6	7	8	9	10	11	12	13
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)											
VOLUME	1000 BCM		90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
HAUL DISTANCE	KM		1.20	1.20	1.00	1.40	1.20	1.00	0.80	1.50	0.
UNIT PRICE 1	\$/1000 BCM*KM		250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		27.	42.	61.	274.	377.	245.	187.	619.	0.
VOLUME*DISTANCE	1000 BCM*KM		108.00	168.80	244.20	1091.00	1505.00	976.00	744.00	2467.50	0.
UNIT PRICE 2	\$/1000 BCM*KM		48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		5.	8.	12.	53.	73.	48.	36.	120.	0.
SUBTOTAL	\$/1000		32.	51.	73.	327.	451.	292.	223.	739.	0.
2.5 MUSKEG PLACEMENT											
VOLUME	1000 BCM		90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		43.	67.	117.	373.	601.	468.	446.	789.	0.
VOLUME	1000 BCM		90.00	140.70	244.20	779.00	1253.80	976.00	930.00	1645.00	0.
UNIT PRICE 2	\$/1000 BCM		34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		3.	5.	8.	27.	43.	34.	32.	57.	0.
SUBTOTAL	\$/1000		46.	72.	126.	400.	644.	502.	478.	846.	0.
2.6 MUSKEG ROAD CONSTRUCTION											
LENGTH	KM		0.70	1.20	1.60	2.30	4.00	3.20	2.60	2.00	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		24.	41.	54.	78.	135.	108.	88.	68.	0.
LENGTH	KM		0.70	1.20	1.60	2.30	4.00	3.20	2.60	2.00	0.
UNIT PRICE 2	\$/KM		6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		5.	8.	11.	16.	28.	22.	18.	14.	0.
SUBTOTAL	\$/1000		29.	49.	65.	94.	163.	130.	106.	81.	0.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1000		458.	683.	714.	1631.	2454.	2034.	1576.	2943.	200.
TOTAL CAPITAL COST	\$/1000		77.	115.	125.	296.	447.	366.	289.	542.	31.
TOTAL COST	\$/1000		534.	799.	839.	1927.	2901.	2399.	1865.	3485.	231.

	YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING										
AREA	HECTARES	117.06	115.34	64.28	42.31	33.47	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	148.	146.	81.	54.	42.	0.	0.	0.	0.
AREA	HECTARES	117.06	115.34	64.28	42.31	33.47	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	23.	23.	13.	8.	7.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	171.	169.	94.	62.	49.	0.	0.	0.	0.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	20.30	47.60	47.00	25.10	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	1850.00	1850.00	1850.00	1850.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	38.	88.	87.	46.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	20.30	47.60	47.00	25.10	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	300.00	300.00	300.00	300.00	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	6.	14.	14.	8.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	44.	102.	101.	54.	0.	0.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	851.40	851.40	851.40	851.40	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	304.	651.	631.	417.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	207.00	207.00	207.00	207.00	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	74.	158.	153.	101.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	378.	809.	784.	519.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	1.20	2.10	3.00	2.60	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	250.80	250.80	250.80	250.80	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	108.	403.	558.	320.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	429.00	1605.00	2223.00	1274.00	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	48.70	48.70	48.70	48.70	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	21.	78.	108.	62.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	128.	481.	666.	382.	0.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	479.40	479.40	479.40	479.40	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	171.	367.	355.	235.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	357.50	764.50	741.00	490.00	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	34.60	34.60	34.60	34.60	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	12.	26.	26.	17.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	184.	393.	381.	252.	0.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	2.50	4.40	5.30	0.80	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	85.	149.	179.	27.	0.
LENGTH	KM	0.	0.	0.	0.	2.50	4.40	5.30	0.80	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	17.	30.	37.	6.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	102.	179.	216.	33.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	148.	146.	119.	142.	797.	1615.	1723.	999.	0.
TOTAL CAPITAL COST	\$/1,000	23.	23.	19.	23.	145.	301.	324.	186.	0.
TOTAL COST	\$/1,000	171.	169.	138.	164.	943.	1916.	2047.	1185.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	3748.72
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	4749.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	3748.72
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	738.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	5487.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	917.80
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1698.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	917.80
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	275.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1973.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	17149.30
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	14601.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	17149.30
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3550.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	18151.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	1.89
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8133.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	32429.40
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1579.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	9712.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8221.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	17149.30
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	593.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8815.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	66.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2243.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	66.30
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	459.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2701.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	39644.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	7194.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	46839.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-3	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	2515.	2515.	2515.	2515.	2515.	2515.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6708.00	6708.00	6708.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6708.	6708.	6708.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	6708.	6708.	6708.	2515.	2515.	2515.	2515.	2515.	2515.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	36833.00	43050.00	49617.00	50556.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	7421.	8673.	9996.	10185.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	57236.00	57236.00	57236.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	57236.	57236.	57236.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	57236.	57236.	57236.	7421.	8673.	9996.	10185.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	82089.00	94237.00	106118.00	104549.00
DISTANCE	M	0.	0.	0.	5100.00	6070.00	23280.00	34320.00	36530.00	39480.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	464.	552.	12292.	20802.	24934.	26549.
CONV. INCREASE	M	0.	0.	0.	5100.00	970.00	17210.00	11040.00	2210.00	2950.00
UNIT PRICE 2	\$/M	0.	0.	0.	5837.39	5837.39	5837.39	2393.43	2393.43	2393.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	29771.	5662.	100461.	26423.	5289.	7061.
SUBTOTAL	\$/1,000	0.	0.	0.	30235.	6215.	112753.	47226.	30223.	33609.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	0.	0.	0.	14150.00	14150.00	50719.00	56198.00	62770.00	62778.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	56.80	56.80	56.80	56.80	56.80	56.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	804.	804.	2881.	3192.	3566.	3566.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	11020.00	11020.00	11020.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	11020.	11020.	11020.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	11020.	11020.	11020.	804.	804.	2881.	3192.	3566.	3566.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00
OPERATING COST	\$/1,000	0.	0.	0.	6423.	6423.	6423.	6423.	6423.	6423.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	11931.00	0.	0.	0.	0.	5939.00
CAPITAL COST	\$/1,000	0.	0.	0.	11931.	0.	0.	0.	0.	5939.
SUBTOTAL	\$/1,000	0.	0.	0.	18354.	6423.	6423.	6423.	6423.	12362.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	10206.	10294.	31531.	41605.	47433.	49238.
TOTAL CAPITAL COST	\$/1,000	17728.	17728.	74964.	98938.	62898.	100461.	26423.	5289.	13000.
TOTAL COST	\$/1,000	17728.	17728.	74964.	109143.	73192.	131993.	68029.	52722.	62237.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.	2515.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	52709.00	53591.00	51948.00	49041.00	45862.00	46311.00	43622.00	39810.00	51478.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10619.	10797.	10466.	9880.	9240.	9330.	8788.	8020.	10371.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10619.	10797.	10466.	9880.	9240.	9330.	8788.	8020.	10371.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	101300.00	98877.00	100420.00	103808.00	99720.00	95813.00	90401.00	90553.00	103444.00
DISTANCE	M	40970.00	36040.00	31780.00	31970.00	38710.00	28660.00	35190.00	41150.00	45170.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	26694.	22921.	20527.	21346.	24829.	17662.	20462.	23967.	30054.
CONV. INCREASE	M	1490.00	0.	0.	0.	0.	0.	0.	180.00	4020.00
UNIT PRICE 2	\$/M	2393.43	0.	0.	0.	0.	0.	0.	4574.38	4574.38
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3566.	0.	0.	0.	0.	0.	0.	823.	18389.
SUBTOTAL	\$/1,000	30261.	22921.	20527.	21346.	24829.	17662.	20462.	24791.	48443.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	62417.00	61154.00	60552.00	61206.00	59247.00	58375.00	54155.00	54173.00	63537.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	56.80	56.80	56.80	56.80	56.80	56.80	56.80	56.80	56.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3546.	3474.	3440.	3477.	3365.	3316.	3076.	3077.	3609.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3546.	3474.	3440.	3477.	3365.	3316.	3076.	3077.	3609.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00
OPERATING COST	\$/1,000	6423.	6423.	6423.	6423.	6423.	6423.	6423.	6423.	6423.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	723.00	0.	0.	5939.00	0.	0.	0.	723.00
CAPITAL COST	\$/1,000	0.	723.	0.	0.	5939.	0.	0.	0.	723.
SUBTOTAL	\$/1,000	6423.	7146.	6423.	6423.	12362.	6423.	6423.	6423.	7146.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	49797.	46129.	43370.	43641.	46371.	39246.	41264.	44003.	52972.
TOTAL CAPITAL COST	\$/1,000	3566.	723.	0.	0.	5939.	0.	823.	0.	19112.
TOTAL COST	\$/1,000	53363.	46852.	43370.	43641.	52310.	39246.	41264.	44826.	72084.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	14150.00	14150.00	14150.00	14150.00	14150.00	14150.00	12750.00	7250.00	7250.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2266.	1288.	1288.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2515.	2515.	2515.	2515.	2515.	2515.	2266.	1288.	1288.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	52958.00	48535.00	52959.00	57300.00	47892.00	39722.00	45086.00	53549.00	53525.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10669.	9778.	10669.	11544.	9649.	8003.	9083.	10788.	10783.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10669.	9778.	10669.	11544.	9649.	8003.	9083.	10788.	10783.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	101210.00	101333.00	110561.00	120611.00	100258.00	86775.00	95338.00	107052.00	111638.00
DISTANCE	M	33610.00	30290.00	34930.00	40350.00	41240.00	40820.00	43770.00	50440.00	56470.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1*000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1*000	21880.	19742.	24840.	31302.	26594.	22783.	26840.	34731.	40549.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	5270.00	6030.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	4574.38	4574.38
ADDITIONAL COST	\$/1*000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1*000	0.	0.	0.	0.	0.	0.	0.	24107.	27584.
SUBTOTAL	\$/1*000	21880.	19742.	24840.	31302.	26594.	22783.	26840.	58838.	68132.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	60891.00	60385.00	65187.00	70171.00	59806.00	52468.00	56639.00	59108.00	60217.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	56.80	56.80	56.80	56.80	56.80	56.80	56.80	56.80	56.80
ADDITIONAL COST	\$/1*000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1*000	3459.	3430.	3703.	3986.	3397.	2980.	3217.	3358.	3421.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1*000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1*000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1*000	3459.	3430.	3703.	3986.	3397.	2980.	3217.	3358.	3421.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1*000	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00	6423.00
OPERATING COST	\$/1*000	6423.	6423.	6423.	6423.	6423.	6423.	6423.	6423.	6423.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1*000	7457.00	0.	0.	0.	0.	5939.00	723.00	0.	0.
CAPITAL COST	\$/1*000	7457.	0.	0.	0.	0.	5939.	723.	0.	0.
SUBTOTAL	\$/1*000	13880.	6423.	6423.	6423.	6423.	12362.	7146.	6423.	6423.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1*000	44945.	41888.	48150.	55770.	48577.	42704.	47830.	56588.	62464.
TOTAL CAPITAL COST	\$/1*000	7457.	0.	0.	0.	0.	5939.	723.	24107.	27584.
TOTAL COST	\$/1*000	52402.	41888.	48150.	55770.	48577.	48643.	48553.	80695.	90048.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	7250.00	2188.00	0.	0.	0.	0.	0.	0.	333838.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.72	177.72	0.	0.	0.	0.	0.	0.	177.72
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1288.	389.	0.	0.	0.	0.	0.	0.	59330.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20124.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20124.
SUBTOTAL	\$/1,000	1288.	389.	0.	0.	0.	0.	0.	0.	79454.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	47367.00	42092.00	6652.00	0.	0.	0.	0.	0.	1162065.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	201.46	201.46	201.46	0.	0.	0.	0.	0.	201.46
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9543.	8480.	1340.	0.	0.	0.	0.	0.	234114.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	171708.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	171708.
SUBTOTAL	\$/1,000	9543.	8480.	1340.	0.	0.	0.	0.	0.	405822.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 23 24 25 26 27 28 29 30 TOTALS

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	102878.00	87293.00	12954.00	0.	0.	0.	0.	0.	2437530.00
DISTANCE	M	61100.00	57940.00	41530.00	0.	0.	0.	0.	0.	39528.65
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.	0.	0.	0.	0.	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	40431.	32531.	3460.	0.	0.	0.	0.	0.	619738.
CONV. INCREASE	M	4630.00	0.	0.	0.	0.	0.	0.	0.	61100.00
UNIT PRICE 2	\$/M	4574.38	0.	0.	0.	0.	0.	0.	0.	4424.17
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21179.	0.	0.	0.	0.	0.	0.	0.	270316.
SUBTOTAL	\$/1,000	61610.	32531.	3460.	0.	0.	0.	0.	0.	890054.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	55975.00	45520.00	6641.00	0.	0.	0.	0.	0.	1448589.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	56.80	56.80	56.80	0.	0.	0.	0.	0.	56.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3180.	2586.	377.	0.	0.	0.	0.	0.	82286.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	33060.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	33060.
SUBTOTAL	\$/1,000	3180.	2586.	377.	0.	0.	0.	0.	0.	115346.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6423.00	6423.00	1927.00	0.	0.	0.	0.	0.	168925.00
OPERATING COST	\$/1,000	6423.	6423.	1927.	0.	0.	0.	0.	0.	168925.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	39374.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	39374.
SUBTOTAL	\$/1,000	6423.	6423.	1927.	0.	0.	0.	0.	0.	208299.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	60864.	50409.	7105.	0.	0.	0.	0.	0.	1164392.
TOTAL CAPITAL COST	\$/1,000	21179.	0.	0.	0.	0.	0.	0.	0.	534582.
TOTAL COST	\$/1,000	82044.	50409.	7105.	0.	0.	0.	0.	0.	1698975.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR		-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-2	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.1 AREA DRAINAGE

DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.2 CLEARING

AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	14	15	16	17	18	19	20	21	22
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
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	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1*000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR		-2	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-2	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	289.00	289.00	311.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	2944.51	2944.51	2944.51
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	851.	851.	916.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	3445.37	3445.37	3445.37	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	3445.	3445.	3445.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	3445.	3445.	3445.	851.	851.	916.

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 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	866.00	866.00	933.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	1590.18	1590.18	1590.18
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	1377.	1377.	1484.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	5133.00	5135.00	20075.00	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	5133.	5135.	20075.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	5133.	5135.	21452.	1377.	1484.
5.11 PREPARED SOIL LOADING, F.E.L., TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	866.00	866.00	933.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	372.	372.	401.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	866.00	866.00	933.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	100.	100.	107.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	472.	472.	509.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	866.00	866.00	933.00
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	1.80	1.80	2.30
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	331.	331.	456.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	1558.80	1558.80	2145.90
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	61.06	61.06	48.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	95.	95.	105.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	426.	426.	561.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	866.00	866.00	933.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	130.	130.	140.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	866.00	866.00	933.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	21.	21.	23.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	152.	152.	163.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	6.20	5.20	5.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	210.	176.	189.
LENGTH	KM	0.	0.	0.	0.	0.	0.	6.20	5.20	5.60
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	43.	36.	39.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	253.	212.	228.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	86.60	86.60	93.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	43.43	86.86	133.65
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	110.	153.	205.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	110.	153.	205.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	3382.	3391.	3792.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	3445.	8578.	8580.	20334.	252.	274.
TOTAL COST	\$/1,000	0.	0.	0.	3445.	8578.	8580.	23716.	3643.	4065.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM		311.00	311.00	311.00	311.00	311.00	311.00	311.00	311.00	399.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		916.	916.	916.	916.	916.	916.	916.	916.	1175.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		916.	916.	916.	916.	916.	916.	916.	916.	1175.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

5.10 PREPARED SOIL MANUFACTURE

VOLUME	1000 BCM	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	1197.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1484.	1484.	1484.	1484.	1484.	1484.	1484.	1484.	1484.	1903.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1484.	1484.	1484.	1484.	1484.	1484.	1484.	1484.	1484.	1903.

5.11 PREPARED SOIL LOADING, F.E.L., TRUCKS

VOLUME	1000 BCM	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	1197.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	401.	401.	401.	401.	401.	401.	401.	401.	401.	515.
VOLUME	1000 BCM	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	1197.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	107.	107.	107.	107.	107.	107.	107.	107.	107.	138.
SUBTOTAL	\$/1,000	509.	509.	509.	509.	509.	509.	509.	509.	509.	653.

5.12 PREPARED SOIL TRANSPORT, TRUCKS

VOLUME	1000 BCM	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	1197.00
HAUL DISTANCE	KM	2.30	2.30	2.30	2.00	2.00	2.00	2.00	2.00	2.00	2.00
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	456.	456.	456.	396.	396.	396.	396.	396.	396.	508.
VOLUME*DISTANCE	1000 BCM*KM	2145.90	2145.90	2145.90	1866.00	1866.00	1866.00	1866.00	1866.00	1866.00	2394.00
UNIT PRICE 2	\$/1000 BCM*KM	48.85	48.85	48.85	55.44	55.44	55.44	55.44	55.44	55.44	55.44
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	105.	105.	105.	103.	103.	103.	103.	103.	103.	133.
SUBTOTAL	\$/1,000	561.	561.	561.	500.	500.	500.	500.	500.	500.	641.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

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5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	1197.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	140.	140.	140.	140.	140.	140.	140.	140.	180.
VOLUME	1000 BCM	933.00	933.00	933.00	933.00	933.00	933.00	933.00	933.00	1197.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	23.	23.	23.	23.	23.	23.	23.	23.	29.
SUBTOTAL	\$/1,000	163.	163.	163.	163.	163.	163.	163.	163.	210.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	7.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	189.	189.	189.	189.	189.	189.	189.	189.	244.
LENGTH	KM	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	7.20
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	39.	39.	39.	39.	39.	39.	39.	39.	50.
SUBTOTAL	\$/1,000	228.	228.	228.	228.	228.	228.	228.	228.	293.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	93.30	93.30	93.30	93.30	93.30	93.30	93.30	93.30	119.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	180.44	227.23	274.02	320.81	367.60	414.39	461.18	507.97	568.00
OPERATING COST	\$/1,000	252.	299.	346.	392.	439.	486.	533.	580.	660.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	252.	299.	346.	392.	439.	486.	533.	580.	660.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	3838.	3885.	3932.	3919.	3966.	4013.	4060.	4107.	5185.
TOTAL CAPITAL COST	\$/1,000	274.	274.	274.	272.	272.	272.	272.	272.	350.
TOTAL COST	\$/1,000	4112.	4159.	4206.	4192.	4239.	4285.	4332.	4379.	5535.

YEAR 14 15 16 17 18 19 20 21 22

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

5.7 OVERBURDEN REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING

VOLUME	1000 BCM	399.00	399.00	399.00	333.00	333.00	333.00	333.00	333.00	318.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	1175.	1175.	1175.	981.	981.	981.	981.	981.	936.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	*\$1,000	1175.	1175.	1175.	981.	981.	981.	981.	981.	936.

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5.10 PREPARED SOIL MANUFACTURE

VOLUME	1000 BCM	1197.00	1197.00	1197.00	1000.00	1000.00	1000.00	1000.00	1000.00	955.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1903.	1903.	1903.	1590.	1590.	1590.	1590.	1590.	1519.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1903.	1903.	1903.	1590.	1590.	1590.	1590.	1590.	1519.

5.11 PREPARED SOIL LOADING, F.E.L., TRUCKS

VOLUME	1000 BCM	1197.00	1197.00	1197.00	1000.00	1000.00	1000.00	1000.00	1000.00	955.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	515.	515.	515.	430.	430.	430.	430.	430.	411.
VOLUME	1000 BCM	1197.00	1197.00	1197.00	1000.00	1000.00	1000.00	1000.00	1000.00	955.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	138.	138.	138.	115.	115.	115.	115.	115.	110.
SUBTOTAL	\$/1,000	653.	653.	653.	545.	545.	545.	545.	545.	521.

5.12 PREPARED SOIL TRANSPORT, TRUCKS

VOLUME	1000 BCM	1197.00	1197.00	1197.00	1000.00	1000.00	1000.00	1000.00	1000.00	955.00
HAUL DISTANCE	KM	2.00	2.00	2.00	1.90	1.90	0.80	0.80	0.80	2.30
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	508.	508.	508.	404.	404.	170.	170.	170.	467.
VOLUME*DISTANCE	1000 BCM*KM	2394.00	2394.00	2394.00	1900.00	1900.00	800.00	800.00	800.00	2196.50
UNIT PRICE 2	\$/1000 BCM*KM	55.44	55.44	55.44	58.10	58.10	131.26	131.26	131.26	48.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	133.	133.	133.	110.	110.	105.	105.	105.	107.
SUBTOTAL	\$/1,000	641.	641.	641.	514.	514.	275.	275.	275.	574.

YEAR 14 15 16 17 18 19 20 21 22

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	1197.00	1197.00	1197.00	1000.00	1000.00	1000.00	1000.00	1000.00	955.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	180.	180.	180.	151.	151.	151.	151.	151.	144.
VOLUME	1000 BCM	1197.00	1197.00	1197.00	1000.00	1000.00	1000.00	1000.00	1000.00	955.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	29.	29.	29.	25.	25.	25.	25.	25.	23.
SUBTOTAL	\$/1,000	210.	210.	210.	175.	175.	175.	175.	175.	167.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	7.20	7.20	7.20	6.00	6.00	6.00	6.00	6.00	5.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	244.	244.	244.	203.	203.	203.	203.	203.	193.
LENGTH	KM	7.20	7.20	7.20	6.00	6.00	6.00	6.00	6.00	5.70
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	50.	50.	50.	41.	41.	41.	41.	41.	39.
SUBTOTAL	\$/1,000	293.	293.	293.	244.	244.	244.	244.	244.	232.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	119.70	119.70	119.70	100.00	100.00	100.00	100.00	100.00	95.50
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	628.03	688.06	748.09	798.24	848.39	898.54	948.69	998.84	1046.73
OPERATING COST	\$/1,000	720.	780.	840.	875.	925.	975.	1025.	1076.	1120.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	720.	780.	840.	875.	925.	975.	1025.	1076.	1120.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	5245.	5305.	5365.	4633.	4683.	4500.	4550.	4600.	4789.
TOTAL CAPITAL COST	\$/1,000	350.	350.	350.	291.	291.	286.	286.	286.	280.
TOTAL COST	\$/1,000	5595.	5655.	5715.	4924.	4975.	4786.	4836.	4886.	5069.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	636.70	918.00	782.70	782.70	666.70	666.70	666.70	5120.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	377.35	377.35	377.35	377.35	377.35	377.35	377.35	377.35
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	240.	346.	295.	295.	252.	252.	252.	1932.
VOLUME	1000 BCM	0.	636.70	918.00	782.70	782.70	666.70	666.70	666.70	5120.20
UNIT PRICE 2	\$/1000 BCM	0.	42.35	42.35	42.35	42.35	42.35	42.35	42.35	42.35
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	27.	39.	33.	33.	28.	28.	28.	217.
SUBTOTAL	\$/1,000	0.	267.	385.	328.	328.	280.	280.	280.	2149.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	318.00	459.00	391.00	391.00	333.00	333.00	333.00	0.	9514.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	2944.51	0.	2944.51
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	936.	1352.	1151.	1151.	981.	981.	981.	0.	28014.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	10336.11
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	10336.
SUBTOTAL	\$/1,000	936.	1352.	1151.	1151.	981.	981.	981.	0.	38350.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	955.00	1377.00	1174.00	1174.00	1000.00	1000.00	1000.00	0.	28552.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	1590.18	0.	1590.18
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1519.	2190.	1867.	1867.	1590.	1590.	1590.	0.	45403.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	30343.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	30343.
SUBTOTAL	\$/1,000	1519.	2190.	1867.	1867.	1590.	1590.	1590.	0.	75746.
5.11 PREPARED SOIL LOADING, F.O.E.L., TRUCKS										
VOLUME	1000 BCM	955.00	1377.00	1174.00	1174.00	0.	0.	0.	0.	25552.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	0.	0.	0.	0.	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	411.	592.	505.	505.	0.	0.	0.	0.	10990.
VOLUME	1000 BCM	955.00	1377.00	1174.00	1174.00	0.	0.	0.	0.	25552.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	0.	0.	0.	0.	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	110.	158.	135.	135.	0.	0.	0.	0.	2939.
SUBTOTAL	\$/1,000	521.	751.	640.	640.	0.	0.	0.	0.	13930.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	955.00	1377.00	1174.00	1174.00	0.	0.	0.	0.	25552.00
HAUL DISTANCE	KM	2.30	1.50	1.90	1.90	0.	0.	0.	0.	1.87
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	0.	0.	0.	0.	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	467.	439.	474.	474.	0.	0.	0.	0.	10137.
VOLUME*DISTANCE	1000 BCM*KM	2196.50	2065.50	2230.60	2230.60	0.	0.	0.	0.	47726.90
UNIT PRICE 2	\$/1000 BCM*KM	48.80	72.29	58.10	58.10	0.	0.	0.	0.	59.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	107.	149.	130.	130.	0.	0.	0.	0.	2817.
SUBTOTAL	\$/1,000	574.	588.	603.	603.	0.	0.	0.	0.	12954.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 DRE BODY NO.2 ENHANCED LEVEL (1 RWE & 4 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	955.00	1377.00	1174.00	1174.00	0.	0.	0.	0.	25552.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	0.	0.	0.	0.	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	144.	207.	177.	177.	0.	0.	0.	0.	3847.
VOLUME	1000 BCM	955.00	1377.00	1174.00	1174.00	0.	0.	0.	0.	25552.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	0.	0.	0.	0.	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	23.	34.	29.	29.	0.	0.	0.	0.	627.
SUBTOTAL	\$/1,000	167.	241.	206.	206.	0.	0.	0.	0.	4474.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	5.70	8.80	7.50	7.00	0.	0.	0.	0.	155.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	193.	298.	254.	237.	0.	0.	0.	0.	5253.
LENGTH	KM	5.70	8.80	7.50	7.00	0.	0.	0.	0.	155.30
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	39.	61.	52.	48.	0.	0.	0.	0.	1074.
SUBTOTAL	\$/1,000	232.	359.	306.	285.	0.	0.	0.	0.	6327.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	95.50	137.70	117.40	117.40	100.00	100.00	100.00	0.	2855.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	0.	768.05
ADDITIONAL COST	\$/1,000	1094.63	1163.68	1222.56	1281.43	1331.58	1381.73	1431.88	0.	20096.68
OPERATING COST	\$/1,000	1168.	1269.	1313.	1372.	1408.	1459.	1509.	0.	22290.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1168.	1269.	1313.	1372.	1408.	1459.	1509.	0.	22290.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	4837.	6587.	6087.	6077.	4274.	4281.	4331.	252.	127867.
TOTAL CAPITAL COST	\$/1,000	280.	429.	384.	375.	33.	28.	28.	28.	48353.
TOTAL COST	\$/1,000	5117.	7016.	6471.	6452.	4308.	4309.	4359.	280.	176219.

		YEAR	-3	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE											
NO. OF PERSONS	PERSONS	4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING											
NO. OF PERSONS	PERSONS	4.00	8.00	20.00	39.00	59.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.	2309.
6.3 MINING											
NO. OF PERSONS	PERSONS	4.00	7.00	19.00	37.00	56.00	74.00	74.00	74.00	74.00	74.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	120.	210.	571.	1112.	1684.	2225.	2225.	2225.	2225.	2225.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	120.	210.	571.	1112.	1684.	2225.	2225.	2225.	2225.	2225.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.	7111.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.	7111.

YEAR 5 6 7 8 9 10 11 12 13

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.

YEAR 14 15 16 17 18 19 20 21 22

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	78.00	78.00	78.00	18.00	18.00	18.00	18.00	18.00	2170.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.
6.3 MINING										
NO. OF PERSONS	PERSONS	74.00	74.00	74.00	7.00	7.00	7.00	7.00	7.00	2008.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2225.	2225.	2225.	210.	210.	210.	210.	210.	60371.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2225.	2225.	2225.	210.	210.	210.	210.	210.	60371.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	1349.	1410.	1468.	1468.	1468.	1468.
CAPITAL COST	\$*1,000	0.	14774.	16559.	0.	1785.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	14774.	16559.	1349.	3195.	1468.	1468.	1468.	1468.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	4418.	3137.	3456.	2301.	3364.	1665.	1355.	999.	567.
CAPITAL COST	\$*1,000	774.	575.	621.	424.	624.	307.	252.	183.	103.
SUBTOTAL	\$*1,000	5192.	3713.	4078.	2726.	3989.	1972.	1607.	1182.	670.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	10206.	10294.	31531.	41605.	47433.	49238.
CAPITAL COST	\$*1,000	17728.	17728.	74964.	98938.	62898.	100461.	26423.	5289.	13000.
SUBTOTAL	\$*1,000	17728.	17728.	74964.	109143.	73192.	131993.	68029.	52722.	62237.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	3382.	3391.	3792.
CAPITAL COST	\$*1,000	0.	0.	0.	3445.	8578.	8580.	20334.	252.	274.
SUBTOTAL	\$*1,000	0.	0.	0.	3445.	8578.	8580.	23716.	3643.	4065.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4776.	3854.	5279.	17412.	20447.	41775.	54922.	60402.	62175.
TOTAL CAPITAL COST	\$*1,000	18502.	33077.	92144.	102807.	73886.	109349.	47009.	5725.	13376.
TOTAL COST	\$*1,000	23278.	36932.	97423.	120219.	94333.	151124.	101931.	66127.	75552.

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	458.	683.	714.	1631.	2454.	2034.	1576.	2943.	200.
CAPITAL COST	\$*1,000	77.	115.	125.	296.	447.	366.	289.	542.	31.
SUBTOTAL	\$*1,000	534.	799.	839.	1927.	2901.	2399.	1865.	3485.	231.

COST CENTRE 3: OVERBURDEN REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	49797.	46129.	43370.	43641.	46371.	39246.	41264.	44003.	52972.
CAPITAL COST	\$*1,000	3566.	723.	0.	0.	5939.	0.	0.	823.	19112.
SUBTOTAL	\$*1,000	53363.	46852.	43370.	43641.	52310.	39246.	41264.	44826.	72084.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	3838.	3885.	3932.	3919.	3966.	4013.	4060.	4107.	5185.
CAPITAL COST	\$*1,000	274.	274.	274.	272.	272.	272.	272.	272.	350.
SUBTOTAL	\$*1,000	4112.	4159.	4206.	4192.	4239.	4285.	4332.	4379.	5535.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	62672.	59277.	56595.	57770.	61371.	53872.	55479.	59631.	66937.
TOTAL CAPITAL COST	\$*1,000	3917.	1112.	399.	568.	6658.	638.	561.	1638.	19493.
TOTAL COST	\$*1,000	66589.	60389.	56994.	58338.	68029.	54510.	56041.	61269.	86429.

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.	1468.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	148.	146.	119.	142.	797.	1615.	1723.	999.	0.
CAPITAL COST	\$*1,000	23.	23.	19.	23.	145.	301.	324.	186.	0.
SUBTOTAL	\$*1,000	171.	169.	138.	164.	943.	1916.	2047.	1185.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	44945.	41888.	48150.	55770.	48577.	42704.	47830.	56588.	62464.
CAPITAL COST	\$*1,000	7457.	0.	0.	0.	0.	5939.	723.	24107.	27584.
SUBTOTAL	\$*1,000	52402.	41888.	48150.	55770.	48577.	48643.	48553.	80695.	90048.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	5245.	5305.	5365.	4633.	4683.	4500.	4550.	4600.	4789.
CAPITAL COST	\$*1,000	350.	350.	350.	291.	291.	286.	286.	286.	280.
SUBTOTAL	\$*1,000	5595.	5655.	5715.	4924.	4975.	4786.	4836.	4886.	5069.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	58918.	55919.	62214.	69124.	62637.	57398.	62682.	70766.	75832.
TOTAL CAPITAL COST	\$*1,000	7830.	372.	368.	314.	437.	6526.	1333.	24579.	27864.
TOTAL COST	\$*1,000	66748.	56291.	62582.	69438.	63074.	63924.	64015.	95345.	103696.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1468.	1468.	607.	43.	43.	43.	43.	43.	38813.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	33118.
SUBTOTAL	\$*1,000	1468.	1468.	607.	43.	43.	43.	43.	43.	71931.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	39644.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	7194.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	46839.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	60864.	50409.	7105.	0.	0.	0.	0.	0.	1164392.
CAPITAL COST	\$*1,000	21179.	0.	0.	0.	0.	0.	0.	0.	534582.
SUBTOTAL	\$*1,000	82044.	50409.	7105.	0.	0.	0.	0.	0.	1698975.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	4837.	6587.	6087.	6077.	4274.	4281.	4331.	252.	127867.
CAPITAL COST	\$*1,000	280.	429.	384.	375.	33.	28.	28.	28.	48353.
SUBTOTAL	\$*1,000	5117.	7016.	6471.	6452.	4308.	4309.	4359.	280.	176219.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	74281.	65575.	20910.	7403.	5600.	5607.	5657.	1577.	1566748.
TOTAL CAPITAL COST	\$*1,000	21459.	429.	384.	375.	33.	28.	28.	28.	623247.
TOTAL COST	\$*1,000	95740.	66005.	21294.	7778.	5633.	5635.	5685.	1606.	2189996.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	921.	875.	829.	753.	685.	623.
CAPITAL COST	\$*1,000	0.	12210.	12441.	0.	1108.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	12210.	12441.	921.	1984.	829.	753.	685.	623.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	4016.	2593.	2597.	1572.	2089.	940.	695.	466.	240.
CAPITAL COST	\$*1,000	704.	475.	467.	290.	388.	173.	129.	85.	44.
SUBTOTAL	\$*1,000	4720.	3068.	3064.	1862.	2477.	1113.	825.	551.	284.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	6971.	6392.	17798.	21350.	22128.	20882.
CAPITAL COST	\$*1,000	16116.	14651.	56322.	67576.	39055.	56708.	13559.	2468.	5513.
SUBTOTAL	\$*1,000	16116.	14651.	56322.	74546.	45447.	74506.	34910.	24595.	26395.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	1735.	1582.	1608.
CAPITAL COST	\$*1,000	0.	0.	0.	2353.	5326.	4843.	10435.	118.	116.
SUBTOTAL	\$*1,000	0.	0.	0.	2353.	5326.	4843.	12170.	1700.	1724.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	326.	593.	1369.	2429.	3340.	4014.	3649.	3318.	3016.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	326.	593.	1369.	2429.	3340.	4014.	3649.	3318.	3016.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4342.	3185.	3966.	11892.	12696.	23581.	28184.	28178.	26368.
TOTAL CAPITAL COST	\$*1,000	16820.	27336.	69229.	70219.	45877.	61724.	24123.	2671.	5673.
TOTAL COST	\$*1,000	21162.	30522.	73196.	82111.	58573.	85305.	52307.	30849.	32041.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	566.	515.	468.	425.	387.	351.	319.	290.	264.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	566.	515.	468.	425.	387.	351.	319.	290.	264.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	176.	239.	227.	472.	646.	487.	343.	582.	36.
CAPITAL COST	\$*1,000	30.	40.	40.	86.	118.	88.	63.	107.	6.
SUBTOTAL	\$*1,000	206.	280.	267.	558.	764.	574.	406.	689.	42.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	19199.	16168.	13819.	12641.	12211.	9395.	8980.	8706.	9527.
CAPITAL COST	\$*1,000	1375.	253.	0.	0.	1564.	0.	0.	163.	3437.
SUBTOTAL	\$*1,000	20574.	16421.	13819.	12641.	13775.	9395.	8980.	8869.	12965.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	1480.	1362.	1253.	1135.	1044.	961.	884.	812.	933.
CAPITAL COST	\$*1,000	106.	96.	87.	79.	72.	65.	59.	54.	63.
SUBTOTAL	\$*1,000	1585.	1458.	1340.	1214.	1116.	1026.	943.	866.	996.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	2742.	2493.	2266.	2060.	1873.	1702.	1548.	1407.	1279.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2742.	2493.	2266.	2060.	1873.	1702.	1548.	1407.	1279.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	24163.	20776.	18033.	16734.	16161.	12897.	12074.	11798.	12039.
TOTAL CAPITAL COST	\$*1,000	1510.	390.	127.	165.	1753.	153.	122.	324.	3506.
TOTAL COST	\$*1,000	25673.	21166.	18160.	16899.	17914.	13049.	12196.	12122.	15545.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	240.	218.	198.	180.	164.	149.	135.	123.	112.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	240.	218.	198.	180.	164.	149.	135.	123.	112.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	24.	22.	16.	17.	89.	164.	159.	84.	0.
CAPITAL COST	\$*1,000	4.	3.	3.	3.	16.	31.	30.	16.	0.
SUBTOTAL	\$*1,000	28.	25.	19.	20.	105.	195.	189.	99.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	7349.	6226.	6506.	6851.	5425.	4336.	4415.	4748.	4765.
CAPITAL COST	\$*1,000	1219.	0.	0.	0.	0.	603.	67.	2023.	2104.
SUBTOTAL	\$*1,000	8568.	6226.	6506.	6851.	5425.	4938.	4481.	6771.	6869.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	858.	789.	725.	569.	523.	457.	420.	386.	365.
CAPITAL COST	\$*1,000	57.	52.	47.	36.	33.	29.	26.	24.	21.
SUBTOTAL	\$*1,000	915.	841.	772.	605.	556.	486.	446.	410.	387.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1163.	1057.	961.	874.	794.	722.	656.	597.	542.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1163.	1057.	961.	874.	794.	722.	656.	597.	542.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	9634.	8312.	8407.	8492.	6995.	5827.	5785.	5938.	5784.
TOTAL CAPITAL COST	\$*1,000	1280.	55.	50.	39.	49.	663.	123.	2062.	2125.
TOTAL COST	\$*1,000	10914.	8367.	8457.	8530.	7044.	6490.	5908.	8000.	7910.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (1 BWE & 4 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	102.	93.	35.	2.	2.	2.	2.	2.	10031.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	25759.
SUBTOTAL	\$*1,000	102.	93.	35.	2.	2.	2.	2.	2.	35790.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	18994.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	3436.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	22430.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	4221.	3178.	407.	0.	0.	0.	0.	0.	264593.
CAPITAL COST	\$*1,000	1469.	0.	0.	0.	0.	0.	0.	0.	286245.
SUBTOTAL	\$*1,000	5689.	3178.	407.	0.	0.	0.	0.	0.	550838.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	335.	415.	349.	317.	202.	184.	170.	9.	21862.
CAPITAL COST	\$*1,000	19.	27.	22.	20.	2.	1.	1.	1.	24290.
SUBTOTAL	\$*1,000	355.	442.	371.	336.	204.	186.	171.	10.	46152.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	493.	448.	408.	67.	61.	55.	50.	46.	48416.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	493.	448.	408.	67.	61.	55.	50.	46.	48416.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	5151.	4134.	1198.	386.	265.	241.	221.	56.	363894.
TOTAL CAPITAL COST	\$*1,000	1488.	27.	22.	20.	2.	1.	1.	1.	339730.
TOTAL COST	\$*1,000	6639.	4161.	1220.	405.	267.	243.	223.	57.	703625.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

7.0

120,000 BPCD

Bucket Wheel Mine

Minimum Level

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	767.00	767.00	767.00	767.00	767.00	767.00
OPERATING COST \$*1,000		0.	0.	0.	767.	767.	767.	767.	767.	767.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	6307.00	6306.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	6307.	6306.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	6307.	6306.	767.	767.	767.	767.	767.	767.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		0.	0.	0.	117.00	177.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	117.	177.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	117.00	0.	117.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1755.	0.	1755.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	1755.	117.	1932.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	884.	944.	1001.	1001.	1001.	1001.
TOTAL CAPITAL COST \$*1,000		0.	6307.	8061.	0.	1755.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	6307.	8061.	884.	2699.	1001.	1001.	1001.	1001.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		767.00	767.00	767.00	767.00	767.00	767.00	767.00	767.00	767.00
OPERATING COST \$*1,000		767.	767.	767.	767.	767.	767.	767.	767.	767.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		767.	767.	767.	767.	767.	767.	767.	767.	767.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.

YEAR 14 15 16 17 18 19 20 21 22

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		767.00	767.00	767.00	767.00	767.00	767.00	767.00	767.00	767.00
OPERATING COST \$*1,000		767.	767.	767.	767.	767.	767.	767.	767.	767.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		767.	767.	767.	767.	767.	767.	767.	767.	767.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		767.00	767.00	460.20	0.	0.	0.	0.	0.	20402.20
OPERATING COST \$*1,000		767.	767.	460.	0.	0.	0.	0.	0.	20402.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	12613.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	12613.
SUBTOTAL	\$*1,000	767.	767.	460.	0.	0.	0.	0.	0.	33015.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		234.00	234.00	234.00	41.00	41.00	41.00	41.00	41.00	6349.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	41.	41.	41.	41.	41.	6349.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	234.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3510.
SUBTOTAL	\$*1,000	234.	234.	234.	41.	41.	41.	41.	41.	9859.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1001.	1001.	694.	41.	41.	41.	41.	41.	26751.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	16123.
TOTAL COST	\$*1,000	1001.	1001.	694.	41.	41.	41.	41.	41.	42874.

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.1 CLEARING

AREA	HECTARES	653.30	169.80	199.90	252.60	302.90	100.20	80.10	57.20	72.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	828.	215.	253.	320.	384.	127.	101.	72.	92.
AREA	HECTARES	653.30	169.80	199.90	252.60	302.90	100.20	80.10	57.20	72.40
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	129.	33.	39.	50.	60.	20.	16.	11.	14.
SUBTOTAL	\$/1,000	956.	249.	293.	370.	443.	147.	117.	84.	106.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	133.90	41.80	84.60	83.80	72.80	22.70	1.60	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	248.	77.	157.	155.	135.	42.	3.	0.	0.
DITCH VOLUME	1000 BCM	133.90	41.80	84.60	83.80	72.80	22.70	1.60	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	40.	13.	25.	25.	22.	7.	0.	0.	0.
SUBTOTAL	\$/1,000	288.	90.	182.	180.	157.	49.	3.	0.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1081.	307.	937.	639.	1311.	1481.	1218.	196.	17.
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	263.	75.	228.	155.	319.	360.	296.	48.	4.
SUBTOTAL	\$/1,000	1344.	381.	1164.	794.	1630.	1842.	1514.	243.	21.

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2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
HAUL DISTANCE	KM	1.80	2.40	1.50	1.40	1.70	2.10	2.40	3.90	11.30
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	573.	217.	414.	263.	657.	916.	861.	225.	57.
VOLUME*DISTANCE	1000 BCM*KM	2286.00	864.00	1650.00	1050.00	2618.00	3654.00	3432.00	897.00	226.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	111.	42.	80.	51.	127.	178.	167.	44.	11.
SUBTOTAL	\$/1,000	685.	259.	494.	314.	784.	1094.	1028.	269.	68.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	609.	173.	527.	360.	738.	834.	686.	110.	10.
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	44.	12.	38.	26.	53.	60.	49.	8.	1.
SUBTOTAL	\$/1,000	653.	185.	565.	386.	792.	894.	735.	118.	10.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	21.70	7.20	10.30	8.40	9.10	2.00	0.20	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	734.	244.	348.	284.	308.	68.	7.	0.	0.
LENGTH	KM	21.70	7.20	10.30	8.40	9.10	2.00	0.20	0.	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	150.	50.	71.	58.	63.	14.	1.	0.	0.
SUBTOTAL	\$/1,000	884.	293.	420.	342.	371.	81.	8.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	4073.	1232.	2636.	2021.	3532.	3469.	2875.	604.	175.
TOTAL CAPITAL COST	\$/1,000	737.	225.	482.	365.	644.	639.	530.	111.	30.
TOTAL COST	\$/1,000	4810.	1457.	3118.	2386.	4176.	4107.	3405.	714.	205.

	YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING										
AREA	HECTARES	90.00	161.00	191.60	184.50	279.50	177.90	114.60	20.00	68.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	114.	204.	243.	234.	354.	225.	145.	25.	87.
AREA	HECTARES	90.00	161.00	191.60	184.50	279.50	177.90	114.60	20.00	68.30
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	18.	32.	38.	36.	55.	35.	23.	4.	13.
SUBTOTAL	\$/1,000	132.	236.	280.	270.	409.	260.	168.	29.	100.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	9.70	15.70	34.70	62.40	17.20	88.60	61.30	8.40	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18.	29.	64.	115.	32.	164.	113.	16.	0.
DITCH VOLUME	1000 BCM	9.70	15.70	34.70	62.40	17.20	88.60	61.30	8.40	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	5.	10.	19.	5.	27.	18.	3.	0.
SUBTOTAL	\$/1,000	21.	34.	75.	134.	37.	190.	132.	18.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	94.	170.	366.	809.	289.	1575.	1090.
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	23.	41.	89.	197.	70.	383.	265.
SUBTOTAL	\$/1,000	0.	0.	116.	212.	455.	1005.	360.	1958.	1355.

YEAR 5 6 7 8 9 10 11 12 13

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
HAUL DISTANCE	KM	0.	0.	3.80	3.40	3.30	2.00	3.00	2.50	2.00
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	105.	171.	356.	477.	256.	1160.	642.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	418.00	680.00	1419.00	1900.00	1020.00	4625.00	2560.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	20.	33.	69.	93.	50.	225.	125.
SUBTOTAL	\$/1,000	0.	0.	125.	204.	425.	569.	305.	1385.	767.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	53.	96.	206.	455.	163.	887.	614.
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	4.	7.	15.	33.	12.	64.	44.
SUBTOTAL	\$/1,000	0.	0.	57.	103.	221.	488.	175.	951.	658.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	1.10	2.00	4.30	6.30	11.00	7.60	6.20	3.40	3.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	37.	68.	145.	213.	372.	257.	210.	115.	101.
LENGTH	KM	1.10	2.00	4.30	6.30	11.00	7.60	6.20	3.40	3.00
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	14.	30.	44.	76.	53.	43.	24.	21.
SUBTOTAL	\$/1,000	45.	81.	175.	257.	448.	310.	253.	139.	122.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	169.	301.	704.	999.	1686.	2387.	1177.	3778.	2533.
TOTAL CAPITAL COST	\$/1,000	28.	50.	125.	180.	309.	436.	216.	702.	468.
TOTAL COST	\$/1,000	197.	351.	828.	1179.	1995.	2823.	1392.	4480.	3002.

YEAR 14 15 16 17 18 19 20 21 22

2.1 CLEARING

AREA	HECTARES	82.10	91.80	145.40	131.40	114.20	110.50	46.60	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	104.	116.	184.	166.	145.	140.	59.	0.	0.
AREA	HECTARES	82.10	91.80	145.40	131.40	114.20	110.50	46.60	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	18.	29.	26.	22.	22.	9.	0.	0.
SUBTOTAL	\$/1,000	120.	134.	213.	192.	167.	162.	68.	0.	0.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	0.	0.	0.	2.40	15.70	27.50	8.00	5.80	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1850.00	1850.00	1850.00	1850.00	1850.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	4.	29.	51.	15.	11.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	2.40	15.70	27.50	8.00	5.80	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	300.00	300.00	300.00	300.00	300.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	1.	5.	8.	2.	2.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	5.	34.	59.	17.	12.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	0.	0.	0.	0.	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	145.	0.	0.	0.	0.	26.	162.	289.	85.
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
UNIT PRICE 2	\$/1000 BCM	207.00	0.	0.	0.	0.	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	35.	0.	0.	0.	0.	6.	39.	70.	21.
SUBTOTAL	\$/1,000	180.	0.	0.	0.	0.	32.	201.	360.	106.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWF)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
HAUL DISTANCE	KM	10.70	0.	0.	0.	0.	3.50	0.90	6.40	13.20
UNIT PRICE 1	\$/1000 BCM*KM	250.80	0.	0.	0.	0.	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	456.	0.	0.	0.	0.	26.	43.	546.	331.
VOLUME*DISTANCE	1000 BCM*KM	1819.00	0.	0.	0.	0.	105.00	171.00	2176.00	1320.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	0.	0.	0.	0.	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	89.	0.	0.	0.	0.	5.	8.	106.	64.
SUBTOTAL	\$/1,000	545.	0.	0.	0.	0.	31.	51.	652.	395.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	0.	0.	0.	0.	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	81.	0.	0.	0.	0.	14.	91.	163.	48.
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
UNIT PRICE 2	\$/1000 BCM	34.60	0.	0.	0.	0.	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	0.	0.	0.	0.	1.	7.	12.	3.
SUBTOTAL	\$/1,000	87.	0.	0.	0.	0.	15.	98.	175.	51.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	3.00	1.20	0.	0.30	1.90	3.40	1.00	0.70	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	0.	33825.11	33825.11	33825.11	33825.11	33825.11	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	101.	41.	0.	10.	64.	115.	34.	24.	0.
LENGTH	KM	3.00	1.20	0.	0.30	1.90	3.40	1.00	0.70	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	0.	6915.90	6915.90	6915.90	6915.90	6915.90	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	8.	0.	2.	13.	24.	7.	5.	0.
SUBTOTAL	\$/1,000	122.	49.	0.	12.	77.	139.	41.	29.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	888.	157.	184.	181.	238.	372.	403.	1033.	464.
TOTAL CAPITAL COST	\$/1,000	167.	26.	29.	29.	40.	66.	73.	195.	88.
TOTAL COST	\$/1,000	1054.	183.	213.	210.	278.	438.	476.	1227.	553.

C:\TECHMAN\2010\PRINTED\2.6.MUSKEG.ROAD.CONSTRUCTION

		YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	3897.80
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	4938.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	3897.80
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	767.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	5705.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	798.60
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1477.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	798.60
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	240.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1717.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		851.40	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		60.	0.	0.	0.	0.	0.	0.	0.	12345.
VOLUME	1000 BCM		70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
UNIT PRICE 2	\$/1000 BCM		207.00	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		14.	0.	0.	0.	0.	0.	0.	0.	3002.
SUBTOTAL	\$/1,000		74.	0.	0.	0.	0.	0.	0.	0.	15347.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
HAUL DISTANCE	KM	11.20	0.	0.	0.	0.	0.	0.	0.	2.46
UNIT PRICE 1	\$/1000 BCM*KM	250.80	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	197.	0.	0.	0.	0.	0.	0.	0.	8947.
VOLUME*DISTANCE	1000 BCM*KM	784.00	0.	0.	0.	0.	0.	0.	0.	35674.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	38.	0.	0.	0.	0.	0.	0.	0.	1737.
SUBTOTAL	\$/1,000	235.	0.	0.	0.	0.	0.	0.	0.	10684.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	34.	0.	0.	0.	0.	0.	0.	0.	6951.
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
UNIT PRICE 2	\$/1000 BCM	34.60	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	0.	0.	0.	0.	0.	0.	0.	502.
SUBTOTAL	\$/1,000	36.	0.	0.	0.	0.	0.	0.	0.	7453.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	115.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	3900.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	115.30
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	797.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4697.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	290.	0.	0.	0.	0.	0.	0.	0.	38559.
TOTAL CAPITAL COST	\$/1,000	55.	0.	0.	0.	0.	0.	0.	0.	7045.
TOTAL COST	\$/1,000	345.	0.	0.	0.	0.	0.	0.	0.	45604.

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YEAR -5 -4 -3 -2 -1 1 2 3 4

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	33797.00	49600.00	54000.00	56200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	1681.	1757.	5120.	7514.	8180.	8513.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	11808.00	11807.00	23615.00	23615.00	23615.00	11808.00	0.	0.	0.
CAPITAL COST	\$*1,000	11808.	11807.	23615.	23615.	23615.	11808.	0.	0.	0.
SUBTOTAL	\$*1,000	11808.	11807.	23615.	25296.	25372.	16928.	7514.	8180.	8513.

YEAR -5 -4 -3 -2 -1 1 2 3 4

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	33797.00	49600.00	54000.00	56200.00
DISTANCE	M	0.	0.	0.	7200.00	7900.00	11100.00	14850.00	15750.00	15450.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	846.	970.	3972.	7799.	9005.	9193.
CONV. INCREASE	M	0.	0.	0.	7200.00	700.00	3200.00	3750.00	900.00	0.
UNIT PRICE 2	\$/M	0.	0.	0.	4779.92	4779.92	4403.80	4403.80	4403.80	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	34415.	3346.	14092.	16514.	3963.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	35262.	4316.	18064.	24313.	12969.	9193.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	8897.00	18400.00	17100.00	17600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	90.21	90.21	90.21	90.21	90.21	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1001.	1046.	803.	1660.	1543.	1588.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5510.00	5510.00	5510.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5510.	5510.	5510.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	5510.	5510.	5510.	1001.	1046.	803.	1660.	1543.	1588.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00
OPERATING COST	\$/1,000	0.	0.	0.	4664.	4664.	4664.	4664.	4664.	4664.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	9725.00	0.	0.	0.	0.	3733.00
CAPITAL COST	\$/1,000	0.	0.	0.	9725.	0.	0.	0.	0.	3733.
SUBTOTAL	\$/1,000	0.	0.	0.	14389.	4664.	4664.	4664.	4664.	8397.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	8193.	8438.	14558.	21636.	23392.	23958.
TOTAL CAPITAL COST	\$/1,000	17318.	17317.	29125.	67755.	26961.	25900.	16514.	3963.	3733.
TOTAL COST	\$/1,000	17318.	17317.	29125.	75948.	35399.	40458.	38150.	27355.	27691.

	YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 RWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	57900.00	61500.00	59200.00	60000.00	60100.00	60100.00	60300.00	51100.00	52200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8771.	9316.	8968.	9089.	9104.	9104.	9134.	7741.	7907.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8771.	9316.	8968.	9089.	9104.	9104.	9134.	7741.	7907.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	57900.00	61500.00	59200.00	60000.00	60100.00	60100.00	60300.00	51100.00	52200.00
DISTANCE	M	15900.00	15600.00	13800.00	13100.00	10400.00	9700.00	11250.00	13500.00	17300.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9747.	10158.	8650.	8322.	6618.	6172.	7183.	7304.	9562.
CONV. INCREASE	M	150.00	0.	0.	0.	0.	0.	0.	0.	1400.00
UNIT PRICE 2	\$/M	4403.80	0.	0.	0.	0.	0.	0.	0.	4519.04
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	661.	0.	0.	0.	0.	0.	0.	0.	6327.
SUBTOTAL	\$/1,000	10408.	10158.	8650.	8322.	6618.	6172.	7183.	7304.	15888.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	19600.00	23000.00	22100.00	22300.00	22300.00	23700.00	25400.00	16600.00	18900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1768.	2075.	1994.	2012.	2012.	2138.	2291.	1497.	1705.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1768.	2075.	1994.	2012.	2012.	2138.	2291.	1497.	1705.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00
OPERATING COST	\$/1,000	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	724.00	0.	0.	3733.00	0.	0.	0.	724.00
CAPITAL COST	\$/1,000	0.	724.	0.	0.	3733.	0.	0.	0.	724.
SUBTOTAL	\$/1,000	4664.	5388.	4664.	4664.	8397.	4664.	4664.	4664.	5388.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	24950.	26213.	24275.	24087.	22398.	22079.	23272.	21206.	23838.
TOTAL CAPITAL COST	\$/1,000	661.	724.	0.	0.	3733.	0.	0.	0.	7051.
TOTAL COST	\$/1,000	25611.	26937.	24275.	24087.	26131.	22079.	23272.	21206.	30889.

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YEAR 14 15 16 17 18 19 20 21 22

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	57200.00	55400.00	60100.00	58500.00	60300.00	56600.00	59400.00	59300.00	54400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8665.	8392.	9104.	8862.	9134.	8574.	8998.	8983.	8241.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8665.	8392.	9104.	8862.	9134.	8574.	8998.	8983.	8241.

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	57200.00	55400.00	60100.00	58500.00	60300.00	56600.00	59400.00	59300.00	54400.00
DISTANCE	M	18800.00	14200.00	15200.00	17700.00	20400.00	17570.00	18670.00	21570.00	25070.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	11386.	8329.	9672.	10963.	13025.	10529.	11742.	13543.	14440.
CONV. INCREASE	M	1500.00	0.	0.	0.	1600.00	0.	0.	1170.00	3500.00
UNIT PRICE 2	\$/M	4519.04	0.	0.	0.	4519.04	0.	0.	4519.04	4519.04
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6779.	0.	0.	0.	7230.	0.	0.	5287.	15817.
SUBTOTAL	\$/1,000	18164.	8329.	9672.	10963.	20255.	10529.	11742.	18830.	30257.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	23400.00	17200.00	18000.00	14500.00	18200.00	21300.00	26800.00	23000.00	15800.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2111.	1552.	1624.	1308.	1642.	1921.	2418.	2075.	1425.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2111.	1552.	1624.	1308.	1642.	1921.	2418.	2075.	1425.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00
OPERATING COST	\$/1,000	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5250.00	0.	0.	0.	0.	3733.00	724.00	0.	0.
CAPITAL COST	\$/1,000	5250.	0.	0.	0.	0.	3733.	724.	0.	0.
SUBTOTAL	\$/1,000	9914.	4664.	4664.	4664.	4664.	8397.	5388.	4664.	4664.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	26826.	22937.	25064.	25797.	28465.	25689.	27822.	29265.	28770.
TOTAL CAPITAL COST	\$/1,000	12029.	0.	0.	0.	7230.	3733.	724.	5287.	15817.
TOTAL COST	\$/1,000	38854.	22937.	25064.	25797.	35695.	29422.	28546.	34552.	44587.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO. 2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		51900.00	46900.00	21500.00	0.	0.	0.	0.	0.	1380197.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		151.48	151.48	151.48	0.	0.	0.	0.	0.	151.48
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		7862.	7105.	3257.	0.	0.	0.	0.	0.	209076.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	106268.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	106268.
SUBTOTAL	\$/1,000		7862.	7105.	3257.	0.	0.	0.	0.	0.	315344.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	51900.00	46900.00	21500.00	0.	0.	0.	0.	0.	1380197.00
DISTANCE	M	26570.00	26270.00	26270.00	0.	0.	0.	0.	0.	16611.88
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.	0.	0.	0.	0.	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14601.	13045.	5980.	0.	0.	0.	0.	0.	242758.
CONV. INCREASE	M	500.00	0.	0.	0.	0.	0.	0.	0.	25570.00
UNIT PRICE 2	\$/M	4519.04	0.	0.	0.	0.	0.	0.	0.	4563.59
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2260.	0.	0.	0.	0.	0.	0.	0.	116691.
SUBTOTAL	\$/1,000	16860.	13045.	5980.	0.	0.	0.	0.	0.	359449.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	12000.00	7000.00	3200.00	0.	0.	0.	0.	0.	478997.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	90.21	90.21	90.21	0.	0.	0.	0.	0.	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1082.	631.	289.	0.	0.	0.	0.	0.	43209.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.
SUBTOTAL	\$/1,000	1082.	631.	289.	0.	0.	0.	0.	0.	59739.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4664.00	4664.00	2798.40	0.	0.	0.	0.	0.	124062.40
OPERATING COST	\$/1,000	4664.	4664.	2798.	0.	0.	0.	0.	0.	124062.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	28346.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	28346.
SUBTOTAL	\$/1,000	4664.	4664.	2798.	0.	0.	0.	0.	0.	152408.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	28209.	25445.	12324.	0.	0.	0.	0.	0.	619106.
TOTAL CAPITAL COST	\$/1,000	2260.	0.	0.	0.	0.	0.	0.	0.	267835.
TOTAL COST	\$/1,000	30469.	25445.	12324.	0.	0.	0.	0.	0.	886941.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.1 AREA DRAINAGE

DITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	202.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	49.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	251.	0.	0.	0.	0.	0.	0.	0.

4.2 CLEARING

AREA	HECTARES	0.	1404.90	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	1266.82	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	1780.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	1404.90	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	196.85	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	277.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	2056.	0.	0.	0.	0.	0.	0.	0.

4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS

VOLUME	1000 BCM	0.	0.	0.	10910.00	10910.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	56360.00	70600.00	83650.00	87430.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	84.53	84.53	84.53	84.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	4764.	5968.	7071.	7390.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	10564.00	10564.00	10563.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	10564.	10564.	10563.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	10564.	10564.	10563.	4764.	5968.	7071.	7390.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	12660.00	15870.00	11280.00	11780.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	1564.	1961.	1394.	1456.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	6792.15	4105.28	2359.95	2195.18
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	6792.	4105.	2360.	2195.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	8356.	6066.	3754.	3651.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	12670.00	15880.00	26310.00	27510.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	860.	1078.	1786.	1867.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	860.	1078.	1786.	1867.

YEAR		-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	783.00	1044.00	1044.00
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	783.	1044.	1044.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	2373.00	2372.00	2372.00	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	2373.	2372.	2372.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	2373.	2372.	2372.	783.	1044.	1044.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	6.00	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	25000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	42.00	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	192.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	192.	0.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		0.	0.	0.	0.	0.	1419.00	1778.00	2103.00	2200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1129.57	1129.57	1129.57	1129.57
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	1603.	2008.	2375.	2485.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	1419.00	1778.00	2103.00	2200.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	203.74	203.74	203.74	203.74
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	289.	362.	428.	448.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	1892.	2371.	2804.	2933.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	2.00	1.20	1.20	1.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	68.	41.	41.	41.
LENGTH KM		0.	0.	0.	0.	0.	2.00	1.20	1.20	1.20
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	14.	8.	8.	8.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	81.	49.	49.	49.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		0.	1982.	0.	21275.	21275.	8859.	11839.	13711.	14283.
TOTAL CAPITAL COST \$*1,000		0.	326.	10564.	12937.	12935.	9659.	4476.	2797.	2652.
TOTAL COST \$*1,000		0.	2307.	10564.	34212.	34210.	18518.	16315.	16508.	16935.

	YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	15610.00	15610.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	509.25	509.25	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	7949.	7949.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	15610.00	15610.00	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	115.03	115.03	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	1796.	1796.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	9745.	9745.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

		86810.00	87280.00	84040.00	85420.00	85640.00	82480.00	19070.00	78200.00	75520.00
VOLUME	1000 CUM									
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	84.53	84.53	84.53	84.53	84.53	84.53	84.53	58.58	58.58
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7338.	7378.	7104.	7221.	7239.	6972.	6684.	4581.	4424.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	7338.	7378.	7104.	7221.	7239.	6972.	6684.	4581.	4424.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

		9750.00	8240.00	7170.00	6140.00	4230.00	2220.00	710.00	11900.00	11370.00
VOLUME	1000 CUM									
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1205.	1018.	886.	759.	523.	274.	88.	1470.	1405.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	2005.13	1945.63	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2005.	1946.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3210.	2964.	886.	759.	523.	274.	88.	1470.	1405.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

		29260.00	30980.00	30590.00	32240.00	34250.00	34840.00	34820.00	23240.00	22560.00
VOLUME	1000 CUM									
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1986.	2103.	2077.	2189.	2325.	2365.	2364.	1578.	1531.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1986.	2103.	2077.	2189.	2325.	2365.	2364.	1578.	1531.

YEAR 5 6 7 8 9 10 11 12 13

4.7 RECYCLING OF TAILINGS WATER :

QUANTITY 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	1044.00	1044.00	1044.00	1044.00	1044.00	1044.00	1044.00	1044.00	0.	934.00
OPERATING COST \$*1,000	1044.	1044.	1044.	1044.	1044.	1044.	1044.	1044.	0.	934.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	1044.	1044.	1044.	1044.	1044.	1044.	1044.	1044.	0.	934.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	3.80	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	25000.00	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	45.50	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	141.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	141.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		2183.00	2194.00	2115.00	2149.00	2155.00	2075.00	1989.00	1966.00	1898.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1129.57	1129.57	1129.57	1129.57	1129.57	1129.57	1141.00	1141.00	1404.61
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2466.	2478.	2389.	2427.	2434.	2344.	2269.	2243.	2666.
VOLUME 1000 LCM		2183.00	2194.00	2115.00	2149.00	2155.00	2075.00	1989.00	1966.00	1898.00
UNIT PRICE 2 \$/1000 LCM		203.74	203.74	203.74	203.74	203.74	203.74	208.83	208.83	252.96
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		445.	447.	431.	438.	439.	423.	415.	411.	480.
SUBTOTAL \$*1,000		2911.	2925.	2820.	2865.	2873.	2767.	2685.	2654.	3146.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		1.20	1.25	1.20	1.15	0.70	2.10	1.40	1.90	1.85
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		41.	42.	41.	39.	24.	71.	47.	64.	63.
LENGTH KM		1.20	1.25	1.20	1.15	0.70	2.10	1.40	1.90	1.85
UNIT PRICE 2 \$/KM		6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		8.	9.	8.	8.	5.	15.	10.	13.	13.
SUBTOTAL \$*1,000		49.	51.	49.	47.	29.	86.	57.	77.	75.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		14079.	14064.	13540.	13678.	21538.	21020.	12496.	9936.	11023.
TOTAL CAPITAL COST \$*1,000		2458.	2401.	439.	446.	2240.	2233.	425.	564.	493.
TOTAL COST \$*1,000		16538.	16465.	13979.	14124.	23778.	23253.	12921.	10501.	11516.

	YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	9390.00	3390.00	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	509.25	509.25	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	4782.	1726.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	9393.00	3390.00	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	115.03	115.03	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	1080.	390.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	5862.	2116.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	76480.00	86600.00	95390.00	99530.00	95300.00	80020.00	13770.00	82200.00	87340.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	58.58	58.58	58.58	58.58	58.58	58.58	58.58	52.66	52.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4480.	5073.	5588.	5830.	5583.	4688.	4321.	4329.	4599.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4480.	5073.	5588.	5830.	5583.	4688.	4321.	4329.	4599.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	10780.00	3060.00	2580.00	2080.00	1410.00	840.00	270.00	11330.00	10120.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1332.	378.	319.	257.	174.	104.	33.	1400.	1250.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1332.	378.	319.	257.	174.	104.	33.	1400.	1250.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	23590.00	35860.00	40290.00	42650.00	41410.00	35120.00	32880.00	25610.00	29130.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1601.	2434.	2735.	2895.	2811.	2384.	2232.	1739.	1977.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1601.	2434.	2735.	2895.	2811.	2384.	2232.	1739.	1977.

YEAR 14 15 16 17 18 19 20 21 22

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	934.00	934.00	934.00	934.00	934.00	934.00	934.00	934.00	412.00	824.00
OPERATING COST \$*1,000	934.	934.	934.	934.	934.	934.	934.	934.	412.	824.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	934.	934.	934.	934.	934.	934.	934.	934.	412.	824.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	2.80	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	25000.00	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	31.50	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	102.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	102.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		1927.00	2177.00	2400.00	2508.00	2400.00	2012.00	1858.00	2069.00	2200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1141.00	1126.35	1126.35	1135.04	1135.04	1414.09	1428.22	1428.22	1428.22
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2199.	2452.	2703.	2847.	2724.	2845.	2654.	2955.	3142.
VOLUME 1000 LCM		1927.00	2177.00	2400.00	2508.00	2400.00	2012.00	1858.00	2069.00	2200.00
UNIT PRICE 2 \$/1000 LCM		208.83	202.26	202.26	207.48	207.48	257.17	263.52	263.52	263.52
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		402.	440.	485.	520.	498.	517.	490.	545.	580.
SUBTOTAL \$*1,000		2601.	2892.	3189.	3367.	3222.	3363.	3143.	3500.	3722.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		1.70	1.25	0.85	1.40	1.40	2.40	1.40	0.90	1.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		58.	42.	29.	47.	47.	81.	47.	30.	34.
LENGTH KM		1.70	1.25	0.85	1.40	1.40	2.40	1.40	0.90	1.00
UNIT PRICE 2 \$/KM		6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		12.	9.	6.	10.	10.	17.	10.	6.	7.
SUBTOTAL \$*1,000		69.	51.	35.	57.	57.	98.	57.	37.	41.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		10604.	11314.	17090.	14537.	12273.	11036.	10222.	10865.	11827.
TOTAL CAPITAL COST \$*1,000		414.	449.	1572.	920.	508.	534.	601.	551.	587.
TOTAL COST \$*1,000		11018.	11763.	18661.	15457.	12781.	11570.	10823.	11416.	12414.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	163.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1239.20
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	202.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	163.00
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	49.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	251.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1404.90
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1780.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1404.90
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	277.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	2056.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	65820.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	986.87
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	64956.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	44003.00
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	115.03
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	5062.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	70018.

YEAR 23 24 25 26 27 28 29 30 TOTALS

4.4 PIPING WFT TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	90180.00	90370.00	41500.00	0.	0.	0.	0.	0.	2041180.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	52.66	52.66	52.66	0.	0.	0.	0.	0.	68.74
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4749.	4759.	2185.	0.	0.	0.	0.	0.	140318.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	31691.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	31691.
SUBTOTAL	\$/1,000	4749.	4759.	2185.	0.	0.	0.	0.	0.	172009.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	2410.00	1190.00	0.	0.	0.	0.	0.	0.	159390.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	298.	147.	0.	0.	0.	0.	0.	0.	19694.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	19403.32
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	19403.
SUBTOTAL	\$/1,000	298.	147.	0.	0.	0.	0.	0.	0.	39098.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	38110.00	39420.00	18650.00	0.	0.	0.	0.	0.	757870.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	0.	0.	0.	0.	0.	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2587.	2676.	1266.	0.	0.	0.	0.	0.	51447.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2587.	2676.	1266.	0.	0.	0.	0.	0.	51447.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		824.00	824.00	379.00	0.	0.	0.	0.	0.	20914.00
OPERATING COST \$*1,000		824.	824.	379.	0.	0.	0.	0.	0.	20914.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	7117.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	7117.
SUBTOTAL \$*1,000		824.	824.	379.	0.	0.	0.	0.	0.	28031.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	12.60
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	119.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	434.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	434.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		2274.00	2274.00	1043.00	0.	0.	0.	0.	0.	51366.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1439.83	1439.83	1439.83	0.	0.	0.	0.	0.	1221.82
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		3274.	3274.	1502.	0.	0.	0.	0.	0.	62760.
VOLUME 1000 LCM		2274.00	2274.00	1043.00	0.	0.	0.	0.	0.	51366.00
UNIT PRICE 2 \$/1000 LCM		268.74	268.74	268.74	0.	0.	0.	0.	0.	222.67
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		611.	611.	280.	0.	0.	0.	0.	0.	11437.
SUBTOTAL \$*1,000		3885.	3885.	1782.	0.	0.	0.	0.	0.	74197.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		1.50	1.75	1.90	0.	0.	0.	0.	0.	35.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	33825.11	33825.11	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		51.	59.	64.	0.	0.	0.	0.	0.	1211.
LENGTH KM		1.50	1.75	1.90	0.	0.	0.	0.	0.	35.80
UNIT PRICE 2 \$/KM		6915.90	6915.90	6915.90	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		10.	12.	13.	0.	0.	0.	0.	0.	248.
SUBTOTAL \$*1,000		61.	71.	77.	0.	0.	0.	0.	0.	1459.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		11783.	11739.	5396.	0.	0.	0.	0.	0.	363282.
TOTAL CAPITAL COST \$*1,000		621.	623.	293.	0.	0.	0.	0.	0.	75718.
TOTAL COST \$*1,000		12404.	12362.	5690.	0.	0.	0.	0.	0.	438999.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	1.00	1.20	1.00	0.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	34.	41.	34.	27.
DISTANCE	KM	0.	0.	0.	0.	0.	1.00	1.20	1.00	0.80
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	7.	8.	7.	6.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	41.	49.	41.	33.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	40.00	40.00	40.00	40.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	22.	22.	22.	22.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	40.00	40.00	40.00	40.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	5.	5.	5.	5.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	27.	27.	27.	27.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	40.00	40.00	40.00	40.00
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	7.40	7.40	7.40	7.40
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	53.	53.	53.	53.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	296.00	296.00	296.00	296.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	10.	10.	10.	10.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	63.	63.	63.	63.

YEAR -5 -4 -3 -2 -1 1 2 3 4

5.7 OVERBURDEN REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	40.00	40.00	40.00	40.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	6.	6.	6.	6.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	40.00	40.00	40.00	40.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	1.	1.	1.	1.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	7.	7.	7.	7.

5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.40	0.40	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	14.	14.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.40	0.40	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	3.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	16.	16.	0.	0.

5.9 MUSKEG MINING SLURRY TRANSPORT & DEWATERING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	40.00	40.00	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	25.	25.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	40.00	40.00	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	6.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	31.	31.	0.	0.	0.	0.	0.	0.	0.	0.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	40.00	40.00	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	12.30	12.30	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	110.	110.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	492.00	492.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	21.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	131.	131.	0.	0.	0.	0.	0.	0.	0.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	40.00	40.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7.	7.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	40.00	40.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	1.	1.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8.	8.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	1.20	1.30	0.90	1.40	1.30	1.20	1.10	1.30	1.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	41.	44.	30.	47.	44.	41.	37.	44.	41.
DISTANCE	KM	1.20	1.30	0.90	1.40	1.30	1.20	1.10	1.30	1.20
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	8.	9.	6.	10.	9.	8.	8.	9.	8.
SUBTOTAL	\$\$1,000	49.	53.	37.	57.	53.	49.	45.	53.	49.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	40.00	40.00	40.00	40.00	40.00	40.00	40.00	170.00	170.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	22.	22.	22.	22.	22.	22.	22.	92.	92.
VOLUME	1000 BCM	40.00	40.00	40.00	40.00	40.00	40.00	40.00	170.00	170.00
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	5.	5.	5.	5.	5.	5.	5.	22.	22.
SUBTOTAL	\$\$1,000	27.	27.	27.	27.	27.	27.	27.	114.	114.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	40.00	40.00	40.00	40.00	40.00	40.00	40.00	170.00	170.00
HAUL DISTANCE	KM	7.40	7.40	7.40	7.40	7.40	7.40	7.40	7.70	7.70
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	53.	53.	53.	53.	53.	53.	53.	234.	234.
VOLUME*DISTANCE	1000 BCM*KM	296.00	296.00	296.00	296.00	296.00	296.00	296.00	1309.00	1309.00
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	10.	10.	10.	10.	10.	10.	10.	45.	45.
SUBTOTAL	\$\$1,000	63.	63.	63.	63.	63.	63.	63.	278.	278.

ALBERTA DEPARTMENT OF THE ENVIRONMENT

	YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	109.80	109.80	109.80	109.20	109.80	109.80	109.20	522.00	522.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3.	3.	3.	3.	3.	3.	3.	15.	15.
VOLUME	1000 BCM	109.80	109.80	109.80	109.20	109.80	109.80	109.20	522.00	522.00
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	2.	2.
SUBTOTAL	\$/1,000	4.	4.	4.	4.	4.	4.	4.	17.	17.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	18.30	18.30	18.30	18.20	18.30	18.30	18.20	87.00	87.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	55.25	64.43	73.61	82.73	91.91	101.09	110.22	153.85	197.48
OPERATING COST	\$/1,000	69.	78.	88.	97.	106.	115.	124.	221.	264.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	69.	78.	88.	97.	106.	115.	124.	221.	264.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	335.	354.	201.	227.	233.	246.	245.	629.	679.
TOTAL CAPITAL COST	\$/1,000	53.	55.	23.	26.	26.	26.	24.	82.	83.
TOTAL COST	\$/1,000	388.	409.	224.	254.	259.	272.	269.	711.	763.

		YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM		0.	190.00	0.	0.	10.00	30.00	0.	0.	50.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	615.19	0.	0.	615.19	615.19	0.	0.	615.19
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	117.	0.	0.	6.	18.	0.	0.	31.
VOLUME	1000 BCM		0.	190.00	0.	0.	10.00	30.00	0.	0.	50.00
UNIT PRICE 2	\$/1000 BCM		0.	149.00	0.	0.	149.00	149.00	0.	0.	149.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	28.	0.	0.	1.	4.	0.	0.	7.
SUBTOTAL	\$/1,000		0.	145.	0.	0.	8.	23.	0.	0.	38.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		0.	190.00	0.	0.	10.00	30.00	0.	0.	50.00
HAUL DISTANCE	KM		0.	8.40	0.	0.	0.80	2.80	0.	0.	1.70
UNIT PRICE 1	\$/1000 BCM*KM		0.	224.53	0.	0.	224.53	224.53	0.	0.	224.53
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	358.	0.	0.	2.	19.	0.	0.	19.
VOLUME*DISTANCE	1000 BCM*KM		0.	1596.00	0.	0.	8.00	84.00	0.	0.	85.00
UNIT PRICE 2	\$/1000 BCM*KM		0.	42.43	0.	0.	42.43	42.43	0.	0.	42.43
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	68.	0.	0.	0.	4.	0.	0.	4.
SUBTOTAL	\$/1,000		0.	426.	0.	0.	2.	22.	0.	0.	23.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM		0.	190.00	0.	0.	10.00	30.00	0.	0.	50.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	163.24	0.	0.	163.24	163.24	0.	0.	163.24
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	31.	0.	0.	2.	5.	0.	0.	8.
VOLUME	1000 BCM		0.	190.00	0.	0.	10.00	30.00	0.	0.	50.00
UNIT PRICE 2	\$/1000 BCM		0.	26.62	0.	0.	26.62	26.62	0.	0.	26.62
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	5.	0.	0.	0.	1.	0.	0.	1.
SUBTOTAL	\$/1,000		0.	36.	0.	0.	2.	6.	0.	0.	9.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	1.40	1.60	0.	0.	0.30	0.40	0.30	0.90	0.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	0.	0.	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	47.	54.	0.	0.	10.	14.	10.	30.	30.
DISTANCE	KM	1.40	1.60	0.	0.	0.30	0.40	0.30	0.90	0.90
UNIT PRICE 2	\$/KM	6915.90	6915.90	0.	0.	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	10.	11.	0.	0.	2.	3.	2.	6.	6.
SUBTOTAL	\$/1,000	57.	65.	0.	0.	12.	16.	12.	37.	37.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	170.00	170.00	0.	0.	0.	0.	0.	160.00	140.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	0.	0.	0.	0.	0.	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	92.	92.	0.	0.	0.	0.	0.	87.	76.
VOLUME	1000 BCM	170.00	170.00	0.	0.	0.	0.	0.	160.00	140.00
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	0.	0.	0.	0.	0.	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	22.	22.	0.	0.	0.	0.	0.	21.	18.
SUBTOTAL	\$/1,000	114.	114.	0.	0.	0.	0.	0.	108.	94.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	170.00	170.00	0.	0.	0.	0.	0.	160.00	140.00
HAUL DISTANCE	KM	7.70	7.70	0.	0.	0.	0.	0.	9.70	7.80
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	0.	0.	0.	0.	0.	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	234.	234.	0.	0.	0.	0.	0.	277.	195.
VOLUME*DISTANCE	1000 BCM*KM	1309.00	1309.00	0.	0.	0.	0.	0.	1552.00	1092.00
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	0.	0.	0.	0.	0.	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	45.	45.	0.	0.	0.	0.	0.	53.	37.
SUBTOTAL	\$/1,000	278.	278.	0.	0.	0.	0.	0.	330.	232.

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	170.00	170.00	0.	0.	0.	0.	0.	160.00	140.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	0.	0.	0.	0.	0.	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	24.	24.	0.	0.	0.	0.	0.	23.	20.
VOLUME	1000 BCM	170.00	170.00	0.	0.	0.	0.	0.	160.00	140.00
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	0.	0.	0.	0.	0.	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	4.	0.	0.	0.	0.	0.	4.	3.
SUBTOTAL	\$/1,000	28.	28.	0.	0.	0.	0.	0.	26.	23.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.20	0.	0.	0.	0.	0.50	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	33825.11	0.	0.	0.	0.	33825.11	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	7.	0.	0.	0.	0.	17.	0.
DISTANCE	KM	0.	0.	0.20	0.	0.	0.	0.	0.50	0.
UNIT PRICE 2	\$/KM	0.	0.	6915.90	0.	0.	0.	0.	6915.90	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	1.	0.	0.	0.	0.	3.	0.
SUBTOTAL	\$/1,000	0.	0.	8.	0.	0.	0.	0.	20.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	87.00	87.00	0.	0.	5.00	30.00	5.00	79.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	0.	0.	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	241.11	284.74	345.93	345.93	348.44	292.88	295.38	335.00	370.11
OPERATING COST	\$/1,000	308.	352.	346.	346.	352.	316.	299.	396.	424.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	308.	352.	346.	346.	352.	316.	299.	396.	424.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	720.	1276.	353.	346.	372.	373.	310.	843.	815.
TOTAL CAPITAL COST	\$/1,000	83.	185.	1.	0.	4.	12.	2.	89.	79.
TOTAL COST	\$/1,000	802.	1461.	354.	346.	377.	385.	312.	932.	894.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 23 24 25 26 27 28 29 30 TOTALS

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	80.00	150.00	160.00	320.00	320.00	360.00	360.00	0.	2130.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	0.	615.19
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	49.	92.	98.	197.	197.	221.	221.	0.	1310.
VOLUME	1000 BCM	80.00	150.00	160.00	320.00	320.00	360.00	360.00	0.	2130.00
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	0.	149.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	12.	22.	24.	48.	48.	54.	54.	0.	317.
SUBTOTAL	\$/1000	61.	115.	122.	245.	245.	275.	275.	0.	1628.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	80.00	150.00	160.00	320.00	320.00	360.00	360.00	0.	2130.00
HAUL DISTANCE	KM	2.10	1.60	1.80	2.80	3.30	1.20	1.90	0.	3.17
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	0.	224.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	38.	54.	65.	201.	237.	97.	154.	0.	1517.
VOLUME*DISTANCE	1000 BCM*KM	168.00	240.00	288.00	896.00	1056.00	432.00	684.00	0.	6755.00
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	0.	42.43
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	7.	10.	12.	38.	45.	18.	29.	0.	287.
SUBTOTAL	\$/1000	45.	64.	77.	239.	282.	115.	183.	0.	1803.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	80.00	150.00	160.00	320.00	320.00	360.00	360.00	0.	2130.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	0.	163.24
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	13.	24.	26.	52.	52.	59.	59.	0.	348.
VOLUME	1000 BCM	80.00	150.00	160.00	320.00	320.00	360.00	360.00	0.	2130.00
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	0.	26.62
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	2.	4.	4.	9.	9.	10.	10.	0.	57.
SUBTOTAL	\$/1000	15.	28.	30.	61.	61.	68.	68.	0.	404.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	1.10	0.90	1.10	0.	1.20	1.50	1.20	0.	27.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	0.	33825.11	33825.11	33825.11	0.	33825.11
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	37.	30.	37.	0.	41.	51.	41.	0.	937.
DISTANCE	KM	1.10	0.90	1.10	0.	1.20	1.50	1.20	0.	27.70
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	0.	6915.90	6915.90	6915.90	0.	6915.90
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	8.	6.	8.	0.	8.	10.	8.	0.	192.
SUBTOTAL	\$\$1,000	45.	37.	45.	0.	49.	61.	49.	0.	1129.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	140.00	140.00	140.00	320.00	320.00	720.00	720.00	0.	3920.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	0.	541.57
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	76.	76.	76.	173.	173.	390.	390.	0.	2123.
VOLUME	1000 BCM	140.00	140.00	140.00	320.00	320.00	720.00	720.00	0.	3920.00
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	0.	131.53
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	18.	18.	18.	42.	42.	95.	95.	0.	516.
SUBTOTAL	\$\$1,000	94.	94.	94.	215.	215.	485.	485.	0.	2639.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	140.00	140.00	140.00	320.00	320.00	720.00	720.00	0.	3920.00
HAUL DISTANCE	KM	5.70	3.50	2.80	3.10	11.80	11.80	9.00	0.	8.31
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	0.	178.56
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	142.	87.	70.	177.	674.	1517.	1157.	0.	5814.
VOLUME*DISTANCE	1000 BCM*KM	798.00	490.00	392.00	992.00	3776.00	8496.00	6480.00	0.	32560.00
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	0.	34.00
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	27.	17.	13.	34.	128.	289.	220.	0.	1107.
SUBTOTAL	\$\$1,000	170.	104.	83.	211.	803.	1806.	1377.	0.	6921.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	420.00	420.00	420.00	966.00	966.00	1080.00	1080.00	0.	9620.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	0.	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	12.	12.	12.	27.	27.	30.	30.	0.	268.
VOLUME	1000 BCM	420.00	420.00	420.00	966.00	966.00	1080.00	1080.00	0.	9620.00
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	0.	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	2.	2.	4.	4.	5.	5.	0.	42.
SUBTOTAL	\$/1,000	14.	14.	14.	31.	31.	35.	35.	0.	310.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	70.00	70.00	70.00	161.00	161.00	180.00	180.00	0.	1630.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	0.	768.05
ADDITIONAL COST	\$/1,000	405.21	440.32	475.42	556.16	636.90	727.18	817.44	0.	7917.59
OPERATING COST	\$/1,000	459.	494.	529.	680.	761.	865.	956.	0.	9230.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	459.	494.	529.	680.	761.	865.	956.	0.	9230.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	856.	890.	933.	1559.	2207.	3342.	3109.	0.	22200.
TOTAL CAPITAL COST	\$/1,000	81.	83.	85.	183.	291.	499.	437.	0.	2627.
TOTAL COST	\$/1,000	938.	973.	1018.	1742.	2498.	3841.	3545.	0.	24827.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE											
NO. OF PERSONS	PERSONS		4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
6.2 PLANNING											
NO. OF PERSONS	PERSONS		4.00	8.00	20.00	39.00	59.00	78.00	78.00	78.00	78.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.
6.3 MINING											
NO. OF PERSONS	PERSONS		3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000		328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000		328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/PERSON	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	884.	944.	1001.	1001.	1001.	1001.
CAPITAL COST	\$*1,000	0.	6307.	8061.	0.	1755.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	6307.	8061.	884.	2699.	1001.	1001.	1001.	1001.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	4073.	1232.	2636.	2021.	3532.	3469.	2875.	604.	175.
CAPITAL COST	\$*1,000	737.	225.	482.	365.	644.	639.	530.	111.	30.
SUBTOTAL	\$*1,000	4810.	1457.	3118.	2386.	4176.	4107.	3405.	714.	205.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	8193.	8438.	14558.	21636.	23392.	23958.
CAPITAL COST	\$*1,000	17318.	17317.	29125.	67755.	26961.	25900.	16514.	3963.	3733.
SUBTOTAL	\$*1,000	17318.	17317.	29125.	75948.	35399.	40458.	38150.	27355.	27691.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	1982.	0.	21275.	21275.	8859.	11839.	13711.	14283.
CAPITAL COST	\$*1,000	0.	326.	10564.	12937.	12935.	9659.	4476.	2797.	2652.
SUBTOTAL	\$*1,000	0.	2307.	10564.	34212.	34210.	18518.	16315.	16508.	16935.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	163.	179.	168.	238.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	26.	28.	24.	36.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	190.	206.	192.	274.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4401.	3931.	4428.	35868.	39477.	35041.	44521.	45866.	46647.
TOTAL CAPITAL COST	\$*1,000	18055.	24174.	48232.	81058.	42295.	36224.	21548.	6894.	6450.
TOTAL COST	\$*1,000	22456.	28105.	52661.	116925.	81772.	71266.	66069.	52761.	53098.

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	169.	301.	704.	999.	1686.	2387.	1177.	3778.	2533.
CAPITAL COST	\$*1,000	28.	50.	125.	180.	309.	436.	216.	702.	468.
SUBTOTAL	\$*1,000	197.	351.	828.	1179.	1995.	2823.	1392.	4480.	3002.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	24950.	26213.	24275.	24087.	22398.	22079.	23272.	21206.	23838.
CAPITAL COST	\$*1,000	661.	724.	0.	0.	3733.	0.	0.	0.	7051.
SUBTOTAL	\$*1,000	25611.	26937.	24275.	24087.	26131.	22079.	23272.	21206.	30889.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	14079.	14064.	13540.	13678.	21538.	21020.	12496.	9936.	11023.
CAPITAL COST	\$*1,000	2458.	2401.	439.	446.	2240.	2233.	425.	564.	493.
SUBTOTAL	\$*1,000	16538.	16465.	13979.	14124.	23778.	23253.	12921.	10501.	11516.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	335.	354.	201.	227.	233.	246.	245.	629.	679.
CAPITAL COST	\$*1,000	53.	55.	23.	26.	26.	26.	24.	82.	83.
SUBTOTAL	\$*1,000	388.	409.	224.	254.	259.	272.	269.	711.	763.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	47526.	48923.	46712.	46983.	53847.	53723.	45182.	43542.	46066.
TOTAL CAPITAL COST	\$*1,000	3200.	3231.	587.	652.	6307.	2696.	665.	1348.	8095.
TOTAL COST	\$*1,000	50726.	52154.	47299.	47636.	60155.	56419.	45847.	44890.	54161.

RHEINBRAUN CONSULTING GMBH

YEAR 14 15 16 17 18 19 20 21 22

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	888.	157.	184.	181.	238.	372.	403.	1033.	464.
CAPITAL COST	\$*1,000	167.	26.	29.	29.	40.	66.	73.	195.	88.
SUBTOTAL	\$*1,000	1054.	183.	213.	210.	278.	438.	476.	1227.	553.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	26826.	22937.	25064.	25797.	28465.	25689.	27822.	29265.	28770.
CAPITAL COST	\$*1,000	12029.	0.	0.	0.	7230.	3733.	724.	5287.	15817.
SUBTOTAL	\$*1,000	38854.	22937.	25064.	25797.	35695.	29422.	28546.	34552.	44587.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	10604.	11314.	17090.	14537.	12273.	11036.	10222.	10865.	11827.
CAPITAL COST	\$*1,000	414.	449.	1572.	920.	508.	534.	601.	551.	587.
SUBTOTAL	\$*1,000	11018.	11763.	18661.	15457.	12781.	11570.	10823.	11416.	12414.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	720.	1276.	353.	346.	372.	373.	310.	843.	815.
CAPITAL COST	\$*1,000	83.	185.	1.	0.	4.	12.	2.	89.	79.
SUBTOTAL	\$*1,000	802.	1461.	354.	346.	377.	385.	312.	932.	894.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	47029.	43676.	50683.	48853.	49341.	45462.	46749.	49997.	49868.
TOTAL CAPITAL COST	\$*1,000	12692.	661.	1602.	949.	7783.	4345.	1400.	6123.	16571.
TOTAL COST	\$*1,000	59721.	44337.	52285.	49802.	57123.	49807.	48148.	56119.	66439.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1001.	1001.	694.	41.	41.	41.	41.	41.	26751.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	16123.
SUBTOTAL	\$*1,000	1001.	1001.	694.	41.	41.	41.	41.	41.	42874.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	290.	0.	0.	0.	0.	0.	0.	0.	38559.
CAPITAL COST	\$*1,000	55.	0.	0.	0.	0.	0.	0.	0.	7045.
SUBTOTAL	\$*1,000	345.	0.	0.	0.	0.	0.	0.	0.	45604.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	28209.	25445.	12324.	0.	0.	0.	0.	0.	619106.
CAPITAL COST	\$*1,000	2260.	0.	0.	0.	0.	0.	0.	0.	267835.
SUBTOTAL	\$*1,000	30469.	25445.	12324.	0.	0.	0.	0.	0.	886941.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	11783.	11739.	5396.	0.	0.	0.	0.	0.	363282.
CAPITAL COST	\$*1,000	621.	623.	293.	0.	0.	0.	0.	0.	75718.
SUBTOTAL	\$*1,000	12404.	12362.	5690.	0.	0.	0.	0.	0.	438999.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	856.	890.	933.	1559.	2207.	3342.	3109.	0.	22200.
CAPITAL COST	\$*1,000	81.	83.	85.	183.	291.	499.	437.	0.	2627.
SUBTOTAL	\$*1,000	938.	973.	1018.	1742.	2498.	3841.	3545.	0.	24827.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	49130.	46066.	26339.	2823.	3471.	4606.	4372.	1264.	1262412.
TOTAL CAPITAL COST	\$*1,000	3018.	706.	378.	183.	291.	499.	437.	0.	369348.
TOTAL COST	\$*1,000	52147.	46773.	26717.	3006.	3762.	5105.	4809.	1264.	1631760.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	604.	586.	565.	514.	467.	425.
CAPITAL COST	\$*1,000	0.	5212.	6056.	0.	1090.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	5212.	6056.	604.	1676.	565.	514.	467.	425.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	3703.	1018.	1980.	1380.	2193.	1958.	1475.	282.	74.
CAPITAL COST	\$*1,000	670.	186.	362.	249.	400.	361.	272.	52.	13.
SUBTOTAL	\$*1,000	4373.	1204.	2343.	1630.	2593.	2318.	1747.	333.	87.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	5596.	5239.	8218.	11103.	10912.	10161.
CAPITAL COST	\$*1,000	15744.	14312.	21882.	46278.	16741.	14620.	8474.	1849.	1583.
SUBTOTAL	\$*1,000	15744.	14312.	21882.	51874.	21980.	22838.	19577.	12761.	11744.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	1638.	0.	14531.	13210.	5001.	6075.	6396.	6057.
CAPITAL COST	\$*1,000	0.	269.	7937.	8836.	8032.	5452.	2297.	1305.	1125.
SUBTOTAL	\$*1,000	0.	1907.	7937.	23367.	21241.	10453.	8372.	7701.	7182.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	92.	92.	78.	101.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	15.	14.	11.	15.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	107.	106.	89.	116.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4001.	3248.	3327.	24498.	24512.	19780.	22846.	21397.	19783.
TOTAL CAPITAL COST	\$*1,000	16414.	19979.	36237.	55364.	26262.	20448.	11058.	3216.	2736.
TOTAL COST	\$*1,000	20415.	23227.	39565.	79862.	50774.	40228.	33904.	24613.	22519.

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ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	386.	351.	319.	290.	264.	240.	218.	198.	180.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	386.	351.	319.	290.	264.	240.	218.	198.	180.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	65.	105.	224.	289.	444.	571.	256.	747.	456.
CAPITAL COST	\$*1,000	11.	18.	40.	52.	81.	104.	47.	139.	84.
SUBTOTAL	\$*1,000	76.	123.	264.	342.	525.	676.	303.	886.	540.

COST CENTRE 3: OVERBURDEN REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	9619.	9188.	7735.	6977.	5898.	5285.	5065.	4196.	4287.
CAPITAL COST	\$*1,000	255.	254.	0.	0.	983.	0.	0.	0.	1268.
SUBTOTAL	\$*1,000	9874.	9441.	7735.	6977.	6881.	5285.	5065.	4196.	5556.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	5428.	4929.	4314.	3962.	5672.	5032.	2720.	1966.	1983.
CAPITAL COST	\$*1,000	948.	842.	140.	129.	590.	535.	93.	112.	89.
SUBTOTAL	\$*1,000	6376.	5771.	4454.	4091.	6261.	5566.	2812.	2077.	2071.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	129.	124.	64.	66.	61.	59.	53.	124.	122.
CAPITAL COST	\$*1,000	20.	19.	7.	8.	7.	6.	5.	16.	15.
SUBTOTAL	\$*1,000	149.	143.	71.	73.	68.	65.	59.	141.	137.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	18323.	17147.	14884.	13609.	14180.	12861.	9833.	8614.	8285.
TOTAL CAPITAL COST	\$*1,000	1234.	1132.	187.	189.	1661.	645.	145.	267.	1456.
TOTAL COST	\$*1,000	19557.	18280.	15071.	13798.	15841.	13506.	9978.	8881.	9741.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES											
OPERATING COST	\$*1,000		164.	149.	135.	123.	112.	102.	92.	84.	76.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		164.	149.	135.	123.	112.	102.	92.	84.	76.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS											
OPERATING COST	\$*1,000		145.	23.	25.	22.	27.	38.	37.	87.	35.
CAPITAL COST	\$*1,000		27.	4.	4.	4.	5.	7.	7.	16.	7.
SUBTOTAL	\$*1,000		172.	27.	29.	26.	31.	44.	44.	103.	42.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING											
OPERATING COST	\$*1,000		4386.	3409.	3387.	3169.	3179.	2608.	2568.	2455.	2195.
CAPITAL COST	\$*1,000		1967.	0.	0.	0.	807.	379.	67.	444.	1206.
SUBTOTAL	\$*1,000		6353.	3409.	3387.	3169.	3986.	2987.	2635.	2899.	3401.
COST CENTRE 4: TAILINGS DISPOSAL											
OPERATING COST	\$*1,000		1734.	1682.	2309.	1786.	1371.	1120.	943.	912.	902.
CAPITAL COST	\$*1,000		68.	67.	212.	113.	57.	54.	55.	46.	45.
SUBTOTAL	\$*1,000		1802.	1748.	2522.	1899.	1427.	1175.	999.	958.	947.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES											
OPERATING COST	\$*1,000		118.	190.	48.	42.	42.	38.	29.	71.	62.
CAPITAL COST	\$*1,000		14.	28.	0.	0.	0.	1.	0.	7.	6.
SUBTOTAL	\$*1,000		131.	217.	48.	42.	42.	39.	29.	78.	68.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES											
OPERATING COST	\$*1,000		1143.	1039.	945.	859.	781.	710.	645.	587.	533.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		1143.	1039.	945.	859.	781.	710.	645.	587.	533.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$*1,000		7690.	6492.	6849.	6001.	5510.	4616.	4315.	4195.	3804.
TOTAL CAPITAL COST	\$*1,000		2075.	98.	216.	117.	869.	441.	129.	514.	1264.
TOTAL COST	\$*1,000		9765.	6590.	7065.	6118.	6379.	5057.	4444.	4709.	5068.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	69.	63.	40.	2.	2.	2.	2.	1.	6823.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	12358.
SUBTOTAL	\$*1,000	69.	63.	40.	2.	2.	2.	2.	1.	19181.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	20.	0.	0.	0.	0.	0.	0.	0.	17681.
CAPITAL COST	\$*1,000	4.	0.	0.	0.	0.	0.	0.	0.	3224.
SUBTOTAL	\$*1,000	24.	0.	0.	0.	0.	0.	0.	0.	20905.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	1956.	1604.	706.	0.	0.	0.	0.	0.	141102.
CAPITAL COST	\$*1,000	157.	0.	0.	0.	0.	0.	0.	0.	149269.
SUBTOTAL	\$*1,000	2113.	1604.	706.	0.	0.	0.	0.	0.	290370.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	817.	740.	309.	0.	0.	0.	0.	0.	103538.
CAPITAL COST	\$*1,000	43.	39.	17.	0.	0.	0.	0.	0.	39544.
SUBTOTAL	\$*1,000	860.	779.	326.	0.	0.	0.	0.	0.	143082.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	59.	56.	53.	81.	105.	144.	122.	0.	2425.
CAPITAL COST	\$*1,000	6.	5.	5.	10.	14.	21.	17.	0.	294.
SUBTOTAL	\$*1,000	65.	61.	58.	91.	118.	165.	139.	0.	2719.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	3407.	2904.	1509.	147.	164.	198.	171.	45.	319147.
TOTAL CAPITAL COST	\$*1,000	209.	45.	22.	10.	14.	21.	17.	0.	204689.
TOTAL COST	\$*1,000	3616.	2949.	1531.	157.	178.	220.	188.	45.	523836.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

7.0

120,000 BPCD

Bucket Wheel Mine

Improved Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	767.00	767.00	767.00	767.00	767.00	767.00
OPERATING COST \$*1,000		0.	0.	0.	767.	767.	767.	767.	767.	767.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	6307.00	6306.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	6307.	6306.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	6307.	6306.	767.	767.	767.	767.	767.	767.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		0.	0.	0.	117.00	177.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	117.	177.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	117.00	0.	117.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1755.	0.	1755.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	1755.	117.	1932.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	884.	944.	1001.	1001.	1001.	1001.
TOTAL CAPITAL COST \$*1,000		0.	6307.	8061.	0.	1755.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	6307.	8061.	884.	2699.	1001.	1001.	1001.	1001.

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		767.00	767.00	767.00	767.00	767.00	767.00	767.00	767.00	767.00
OPERATING COST \$*1,000		767.	767.	767.	767.	767.	767.	767.	767.	767.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		767.	767.	767.	767.	767.	767.	767.	767.	767.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00	234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		234.	234.	234.	234.	234.	234.	234.	234.	234.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING										
AREA	HECTARES	653.30	169.80	199.90	252.60	302.90	100.20	80.10	57.20	72.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	828.	215.	253.	320.	384.	127.	101.	72.	92.
AREA	HECTARES	653.30	169.80	199.90	252.60	302.90	100.20	80.10	57.20	72.40
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	129.	33.	39.	50.	60.	20.	16.	11.	14.
SUBTOTAL	\$/1000	956.	249.	293.	370.	443.	147.	117.	84.	106.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	133.90	41.80	84.60	83.80	72.80	22.70	1.60	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	248.	77.	157.	155.	135.	42.	3.	0.	0.
DITCH VOLUME	1000 BCM	133.90	41.80	84.60	83.80	72.80	22.70	1.60	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	40.	13.	25.	25.	22.	7.	0.	0.	0.
SUBTOTAL	\$/1000	288.	90.	182.	180.	157.	49.	3.	0.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	1081.	307.	937.	639.	1311.	1481.	1218.	196.	17.
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	263.	75.	228.	155.	319.	360.	296.	48.	4.
SUBTOTAL	\$/1000	1344.	381.	1164.	794.	1630.	1842.	1514.	243.	21.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
HAUL DISTANCE	KM	2.60	3.94	3.10	2.70	4.60	3.50	3.10	2.65	2.05
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	828.	356.	855.	508.	1777.	1527.	1112.	153.	10.
VOLUME*DISTANCE	1000 BCM*KM	3302.00	1418.00	3410.00	2025.00	7084.00	6090.00	4433.00	609.00	41.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	161.	69.	166.	99.	345.	297.	216.	30.	2.
SUBTOTAL	\$/1,000	989.	425.	1021.	606.	2122.	1824.	1328.	183.	12.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	609.	173.	527.	360.	738.	834.	686.	110.	10.
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	44.	12.	38.	26.	53.	60.	49.	8.	1.
SUBTOTAL	\$/1,000	653.	185.	565.	386.	792.	894.	735.	118.	10.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	4.80	4.70	0.84	1.20	7.80	2.95	1.30	1.10	0.78
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	162.	159.	28.	41.	264.	100.	44.	37.	26.
LENGTH	KM	4.80	4.70	0.84	1.20	7.80	2.95	1.30	1.10	0.78
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	33.	33.	6.	8.	54.	20.	9.	8.	5.
SUBTOTAL	\$/1,000	196.	191.	34.	49.	318.	120.	53.	45.	32.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	3756.	1286.	2757.	2022.	4608.	4112.	3163.	569.	155.
TOTAL CAPITAL COST	\$/1,000	670.	235.	502.	363.	852.	764.	587.	104.	26.
TOTAL COST	\$/1,000	4426.	1521.	3260.	2385.	5461.	4876.	3750.	673.	181.

	YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING										
AREA	HECTARES	90.00	161.00	191.60	184.50	279.50	177.90	114.60	20.00	68.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	114.	204.	243.	234.	354.	225.	145.	25.	87.
AREA	HECTARES	90.00	161.00	191.60	184.50	279.50	177.90	114.60	20.00	68.30
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	18.	32.	38.	36.	55.	35.	23.	4.	13.
SUBTOTAL	\$/1,000	132.	236.	280.	270.	409.	260.	168.	29.	100.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	9.70	15.70	34.70	62.40	17.20	88.60	61.30	8.40	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18.	29.	64.	115.	32.	164.	113.	16.	0.
DITCH VOLUME	1000 BCM	9.70	15.70	34.70	62.40	17.20	88.60	61.30	8.40	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	5.	10.	19.	5.	27.	18.	3.	0.
SUBTOTAL	\$/1,000	21.	34.	75.	134.	37.	190.	132.	18.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	94.	170.	366.	809.	289.	1575.	1090.
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	23.	41.	89.	197.	70.	383.	265.
SUBTOTAL	\$/1,000	0.	0.	116.	212.	455.	1005.	360.	1958.	1355.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 RWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
HAUL DISTANCE	KM	0.	0.	2.60	3.20	4.05	5.70	3.00	1.50	1.90
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	72.	161.	437.	1358.	256.	696.	610.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	286.00	640.00	1741.00	5415.00	1020.00	2775.00	2432.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	14.	31.	85.	264.	50.	135.	118.
SUBTOTAL	\$/1000	0.	0.	86.	192.	522.	1622.	305.	831.	728.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	53.	96.	206.	455.	163.	887.	614.
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	4.	7.	15.	33.	12.	64.	44.
SUBTOTAL	\$/1000	0.	0.	57.	103.	221.	488.	175.	951.	658.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	1.95	1.10	4.10	4.13	3.45	1.20	3.45
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	66.	37.	139.	140.	117.	41.	117.
LENGTH	KM	0.	0.	1.95	1.10	4.10	4.13	3.45	1.20	3.45
UNIT PRICE 2	\$/KM	0.	0.	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	13.	8.	28.	29.	24.	8.	24.
SUBTOTAL	\$/1000	0.	0.	79.	45.	167.	168.	141.	49.	141.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	132.	233.	591.	813.	1534.	3151.	1084.	3239.	2517.
TOTAL CAPITAL COST	\$/1000	21.	36.	102.	142.	277.	583.	197.	597.	465.
TOTAL COST	\$/1000	153.	269.	693.	955.	1811.	3735.	1280.	3836.	2982.

	YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING										
AREA	HECTARES	82.10	91.80	145.40	131.40	114.20	110.50	46.60	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	104.	116.	184.	166.	145.	140.	59.	0.	0.
AREA	HECTARES	82.10	91.80	145.40	131.40	114.20	110.50	46.60	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	16.	18.	29.	26.	22.	22.	9.	0.	0.
SUBTOTAL	\$/1000	120.	134.	213.	192.	167.	162.	68.	0.	0.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	0.	2.40	15.70	27.50	8.00	5.80	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1850.00	1850.00	1850.00	1850.00	1850.00	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	4.	29.	51.	15.	11.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	2.40	15.70	27.50	8.00	5.80	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	300.00	300.00	300.00	300.00	300.00	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	1.	5.	8.	2.	2.	0.
SUBTOTAL	\$/1000	0.	0.	0.	5.	34.	59.	17.	12.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	0.	0.	0.	0.	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	145.	0.	0.	0.	0.	26.	162.	289.	85.
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
UNIT PRICE 2	\$/1000 BCM	207.00	0.	0.	0.	0.	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	35.	0.	0.	0.	0.	6.	39.	70.	21.
SUBTOTAL	\$/1000	180.	0.	0.	0.	0.	32.	201.	360.	106.

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
HAUL DISTANCE	KM	2.30	0.	0.	0.	0.	1.40	1.10	1.30	2.40
UNIT PRICE 1	\$/1000 BCM*KM	250.80	0.	0.	0.	0.	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	98.	0.	0.	0.	0.	11.	52.	111.	60.
VOLUME*DISTANCE	1000 BCM*KM	391.00	0.	0.	0.	0.	42.00	209.00	442.00	240.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	0.	0.	0.	0.	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	19.	0.	0.	0.	0.	2.	10.	22.	12.
SUBTOTAL	\$/1,000	117.	0.	0.	0.	0.	13.	63.	132.	72.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	0.	0.	0.	0.	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	81.	0.	0.	0.	0.	14.	91.	163.	48.
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
UNIT PRICE 2	\$/1000 BCM	34.60	0.	0.	0.	0.	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	0.	0.	0.	0.	1.	7.	12.	3.
SUBTOTAL	\$/1,000	87.	0.	0.	0.	0.	15.	98.	175.	51.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.50	0.	0.	0.	0.	1.40	1.05	1.50	2.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17.	0.	0.	0.	0.	47.	36.	51.	88.
LENGTH	KM	0.50	0.	0.	0.	0.	1.40	1.05	1.50	2.60
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	0.	0.	0.	0.	10.	7.	10.	18.
SUBTOTAL	\$/1,000	20.	0.	0.	0.	0.	57.	43.	61.	106.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	445.	116.	184.	171.	174.	289.	415.	625.	281.
TOTAL CAPITAL COST	\$/1,000	80.	18.	29.	27.	27.	49.	75.	116.	54.
TOTAL COST	\$/1,000	525.	134.	213.	197.	201.	338.	490.	741.	335.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	33797.00	49600.00	54000.00	56200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1681.	1757.	5120.	7514.	8180.	8513.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	11808.00	11807.00	23615.00	23615.00	23615.00	11808.00	0.	0.	0.
CAPITAL COST	\$/1,000	11808.	11807.	23615.	23615.	23615.	11808.	0.	0.	0.
SUBTOTAL	\$/1,000	11808.	11807.	23615.	25296.	25372.	16928.	7514.	8180.	8513.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	33797.00	49600.00	54000.00	56200.00
DISTANCE	M	0.	0.	0.	7200.00	7900.00	11100.00	14850.00	15750.00	15450.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	846.	970.	3972.	7799.	9005.	9193.
CONV. INCREASE	M	0.	0.	0.	7200.00	700.00	3200.00	3750.00	900.00	0.
UNIT PRICE 2	\$/M	0.	0.	0.	4779.92	4779.92	4403.80	4403.80	4403.80	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	34415.	3346.	14092.	16514.	3963.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	35262.	4316.	18064.	24313.	12969.	9193.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	8897.00	18400.00	17100.00	17600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	90.21	90.21	90.21	90.21	90.21	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1001.	1046.	803.	1660.	1543.	1588.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5510.00	5510.00	5510.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5510.	5510.	5510.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	5510.	5510.	5510.	1001.	1046.	803.	1660.	1543.	1588.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00
OPERATING COST	\$/1,000	0.	0.	0.	4664.	4664.	4664.	4664.	4664.	4664.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	9725.00	0.	0.	0.	0.	3733.00
CAPITAL COST	\$/1,000	0.	0.	0.	9725.	0.	0.	0.	0.	3733.
SUBTOTAL	\$/1,000	0.	0.	0.	14389.	4664.	4664.	4664.	4664.	8397.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	8193.	8438.	14558.	21636.	23392.	23958.
TOTAL CAPITAL COST	\$/1,000	17318.	17317.	29125.	67755.	26961.	25900.	16514.	3963.	3733.
TOTAL COST	\$/1,000	17318.	17317.	29125.	75948.	35399.	40458.	38150.	27355.	27691.

	YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	57900.00	61500.00	59200.00	60000.00	60100.00	60100.00	60300.00	51100.00	52200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8771.	9316.	8968.	9089.	9104.	9104.	9134.	7741.	7907.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8771.	9316.	8968.	9089.	9104.	9104.	9134.	7741.	7907.

	YEAR	5	6	7	8	9	10	11	12	13
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	57900.00	61500.00	59200.00	60000.00	60100.00	60100.00	60300.00	51100.00	52200.00
DISTANCE	M	15900.00	15600.00	13800.00	13100.00	10400.00	9700.00	11250.00	13500.00	17300.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9747.	10158.	8650.	8322.	6618.	6172.	7183.	7304.	9562.
CONV. INCREASE	M	150.00	0.	0.	0.	0.	0.	0.	0.	1400.00
UNIT PRICE 2	\$/M	4403.80	0.	0.	0.	0.	0.	0.	0.	4519.04
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	661.	0.	0.	0.	0.	0.	0.	0.	6327.
SUBTOTAL	\$/1,000	10408.	10158.	8650.	8322.	6618.	6172.	7183.	7304.	15888.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	19600.00	23000.00	22100.00	22300.00	22300.00	23700.00	25400.00	16600.00	18900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1768.	2075.	1994.	2012.	2012.	2138.	2291.	1497.	1705.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1768.	2075.	1994.	2012.	2012.	2138.	2291.	1497.	1705.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00
OPERATING COST	\$/1,000	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	724.00	0.	0.	3733.00	0.	0.	0.	724.00
CAPITAL COST	\$/1,000	0.	724.	0.	0.	3733.	0.	0.	0.	724.
SUBTOTAL	\$/1,000	4664.	5388.	4664.	4664.	8397.	4664.	4664.	4664.	5388.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	24950.	26213.	24275.	24087.	22398.	22079.	23272.	21206.	23838.
TOTAL CAPITAL COST	\$/1,000	661.	724.	0.	0.	3733.	0.	0.	0.	7051.
TOTAL COST	\$/1,000	25611.	26937.	24275.	24087.	26131.	22079.	23272.	21206.	30889.

	YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	57200.00	55400.00	60100.00	58500.00	60300.00	56600.00	59400.00	59300.00	54400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8665.	8392.	9104.	8862.	9134.	8574.	8998.	8983.	8241.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8665.	8392.	9104.	8862.	9134.	8574.	8998.	8983.	8241.

	YEAR	14	15	16	17	18	19	20	21	22
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	57200.00	55400.00	60100.00	58500.00	60300.00	56600.00	59400.00	59300.00	54400.00
DISTANCE	M	18800.00	14200.00	15200.00	17700.00	20400.00	17570.00	18670.00	21570.00	25070.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	11386.	8329.	9672.	10963.	13025.	10529.	11742.	13543.	14440.
CONV. INCREASE	M	1500.00	0.	0.	0.	1600.00	0.	0.	1170.00	3500.00
UNIT PRICE 2	\$/M	4519.04	0.	0.	0.	4519.04	0.	0.	4519.04	4519.04
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6779.	0.	0.	0.	7230.	0.	0.	5287.	15817.
SUBTOTAL	\$/1,000	18164.	8329.	9672.	10963.	20255.	10529.	11742.	18830.	30257.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	23400.00	17200.00	18000.00	14500.00	18200.00	21300.00	26800.00	23000.00	15800.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2111.	1552.	1624.	1308.	1642.	1921.	2418.	2075.	1425.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2111.	1552.	1624.	1308.	1642.	1921.	2418.	2075.	1425.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00	4664.00
OPERATING COST	\$/1,000	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.	4664.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5250.00	0.	0.	0.	0.	3733.00	724.00	0.	0.
CAPITAL COST	\$/1,000	5250.	0.	0.	0.	0.	3733.	724.	0.	0.
SUBTOTAL	\$/1,000	9914.	4664.	4664.	4664.	4664.	8397.	5388.	4664.	4664.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	26826.	22937.	25064.	25797.	28465.	25689.	27822.	29265.	28770.
TOTAL CAPITAL COST	\$/1,000	12029.	0.	0.	0.	7230.	3733.	724.	5287.	15817.
TOTAL COST	\$/1,000	38854.	22937.	25064.	25797.	35695.	29422.	28546.	34552.	44587.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	51900.00	46900.00	21500.00	0.	0.	0.	0.	0.	1380197.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	0.	0.	0.	0.	0.	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7862.	7105.	3257.	0.	0.	0.	0.	0.	209076.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	106268.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	106268.
SUBTOTAL	\$/1,000	7862.	7105.	3257.	0.	0.	0.	0.	0.	315344.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 RWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	51900.00	46900.00	21500.00	0.	0.	0.	0.	0.	1380197.00
DISTANCE	M	26570.00	26270.00	26270.00	0.	0.	0.	0.	0.	16611.88
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.	0.	0.	0.	0.	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14601.	13045.	5980.	0.	0.	0.	0.	0.	242758.
CONV. INCREASE	M	500.00	0.	0.	0.	0.	0.	0.	0.	25570.00
UNIT PRICE 2	\$/M	4519.04	0.	0.	0.	0.	0.	0.	0.	4563.59
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2260.	0.	0.	0.	0.	0.	0.	0.	116691.
SUBTOTAL	\$/1,000	16860.	13045.	5980.	0.	0.	0.	0.	0.	359449.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	12000.00	7000.00	3200.00	0.	0.	0.	0.	0.	478997.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	90.21	90.21	90.21	0.	0.	0.	0.	0.	90.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1082.	631.	289.	0.	0.	0.	0.	0.	43209.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16530.
SUBTOTAL	\$/1,000	1082.	631.	289.	0.	0.	0.	0.	0.	59739.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4664.00	4664.00	2798.40	0.	0.	0.	0.	0.	124062.40
OPERATING COST	\$/1,000	4664.	4664.	2798.	0.	0.	0.	0.	0.	124062.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	28346.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	28346.
SUBTOTAL	\$/1,000	4664.	4664.	2798.	0.	0.	0.	0.	0.	152408.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	28209.	25445.	12324.	0.	0.	0.	0.	0.	619106.
TOTAL CAPITAL COST	\$/1,000	2260.	0.	0.	0.	0.	0.	0.	0.	267835.
TOTAL COST	\$/1,000	30469.	25445.	12324.	0.	0.	0.	0.	0.	886941.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	202.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	163.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	49.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	251.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	1404.90	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	1266.82	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	1780.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	1404.90	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	196.85	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	277.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	2056.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	10910.00	10910.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	21275.	21275.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	56360.00	70660.00	83650.00	87430.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	84.53	84.53	84.53	84.53
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	0.	0.	0.	0.	0.	4764.	5973.	7071.	7390.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	10564.00	10564.00	10563.00	0.	0.	0.	0.
CAPITAL COST	\$/1.000	0.	0.	10564.	10564.	10563.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	0.	0.	10564.	10564.	10563.	4764.	5973.	7071.	7390.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	12660.00	15870.00	11280.00	11780.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	0.	0.	0.	0.	0.	1564.	1961.	1394.	1456.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	6792.15	4105.28	2359.95	2195.18
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	6792.	4105.	2360.	2195.
SUBTOTAL	\$/1.000	0.	0.	0.	0.	0.	8356.	6066.	3754.	3651.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	12670.00	15880.00	26310.00	27510.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	0.	0.	0.	0.	0.	860.	1078.	1786.	1867.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	0.	0.	0.	0.	0.	860.	1078.	1786.	1867.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	6.00	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	25000.00	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	42.00	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	192.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	192.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	1419.00	1778.00	2103.00	2200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1129.57	1129.57	1129.57	1129.57
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	1603.	2008.	2375.	2485.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	1419.00	1778.00	2103.00	2200.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	203.74	203.74	203.74	203.74
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	289.	362.	428.	448.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	1892.	2371.	2804.	2933.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	2.00	1.20	1.20	1.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	68.	41.	41.	41.
LENGTH KM		0.	0.	0.	0.	0.	2.00	1.20	1.20	1.20
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	14.	8.	8.	8.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	81.	49.	49.	49.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	1982.	0.	21275.	21275.	8859.	11844.	13711.	14283.
TOTAL CAPITAL COST \$*1,000		0.	326.	10564.	12937.	12935.	9659.	4476.	2797.	2652.
TOTAL COST \$*1,000		0.	2307.	10564.	34212.	34210.	18518.	16320.	16508.	16935.

	YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OR DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	12880.00	12880.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	509.25	509.25	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	6559.	6559.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	12880.00	12880.00	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	115.03	115.03	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	1482.	1482.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	8041.	8041.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	86810.00	87280.00	84040.00	85420.00	85640.00	82480.00	79070.00	78200.00	75520.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	84.53	84.53	84.53	84.53	84.53	84.53	84.53	52.83	52.83
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	7338.	7378.	7104.	7221.	7239.	6972.	6684.	4131.	3990.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	7338.	7378.	7104.	7221.	7239.	6972.	6684.	4131.	3990.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	9750.00	8240.00	7170.00	6140.00	4230.00	2220.00	710.00	5273.00	11259.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	1205.	1018.	886.	759.	523.	274.	88.	652.	1391.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	2005.13	1945.63	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	2005.	1946.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	3210.	2964.	886.	759.	523.	274.	88.	652.	1391.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	29260.00	30980.00	30590.00	32240.00	34250.00	34840.00	34820.00	29872.00	22676.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	1986.	2103.	2077.	2189.	2325.	2365.	2364.	2028.	1539.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	1986.	2103.	2077.	2189.	2325.	2365.	2364.	2028.	1539.

	YEAR	5	6	7	8	9	10	11	12	13
4.10. POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	3.80	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	25000.00	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	45.50	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	141.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	141.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		2183.00	2194.00	2115.00	2149.00	2155.00	2075.00	1989.00	1966.00	1898.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1129.57	1129.57	1129.57	1129.57	1129.57	1129.57	1141.00	1141.00	1404.61
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2466.	2478.	2389.	2427.	2434.	2344.	2269.	2243.	2666.
VOLUME 1000 LCM		2183.00	2194.00	2115.00	2149.00	2155.00	2075.00	1989.00	1966.00	1898.00
UNIT PRICE 2 \$/1000 LCM		203.74	203.74	203.74	203.74	203.74	203.74	208.83	208.83	252.96
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		445.	447.	431.	438.	439.	423.	415.	411.	480.
SUBTOTAL \$*1,000		2911.	2925.	2820.	2865.	2873.	2767.	2685.	2654.	3146.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		1.20	1.25	1.20	1.15	0.70	2.10	1.40	1.90	1.85
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		41.	42.	41.	39.	24.	71.	47.	64.	63.
LENGTH KM		1.20	1.25	1.20	1.15	0.70	2.10	1.40	1.90	1.85
UNIT PRICE 2 \$/KM		6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		8.	9.	8.	8.	5.	15.	10.	13.	13.
SUBTOTAL \$*1,000		49.	51.	49.	47.	29.	86.	57.	77.	75.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		14079.	14064.	13540.	13678.	20148.	19629.	12496.	9118.	10583.
TOTAL CAPITAL COST \$*1,000		2458.	2401.	439.	446.	1925.	1919.	425.	564.	493.
TOTAL COST \$*1,000		16538.	16465.	13979.	14124.	22073.	21548.	12921.	9682.	11076.

	YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OR DAMS										
VOLUME	1000 BCM	0.	0.	7440.00	7440.00	860.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	509.25	509.25	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	3789.	3789.	1677.	0.	0.	0.	0.
QUANTITY 3		0.	0.	7440.00	7440.00	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	115.03	115.03	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	856.	856.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	4645.	4645.	1677.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	76480.00	86600.00	95390.00	99530.00	95300.00	80020.00	73770.00	82200.00	87340.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	52.83	52.83	52.83	52.83	52.83	52.83	52.83	52.83	52.83
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	4040.	4575.	5039.	5258.	5035.	4227.	3897.	4343.	4614.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	4040.	4575.	5039.	5258.	5035.	4227.	3897.	4343.	4614.
4.5 TAILINGS SAND PLACEMENT INTO DYKF										
VOLUME	1000 CUM	7458.00	3801.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	922.	470.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	922.	470.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	26908.00	35118.00	42870.00	44730.00	42820.00	35960.00	33150.00	36940.00	39250.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	1827.	2384.	2910.	3036.	2907.	2441.	2250.	2508.	2664.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1.000	1827.	2384.	2910.	3036.	2907.	2441.	2250.	2508.	2664.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 4: TAILINGS DISPOSAL

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		934.00	934.00	934.00	934.00	934.00	934.00	934.00	934.00	934.00
OPERATING COST \$*1,000		934.	934.	934.	934.	934.	934.	934.	934.	934.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	934.	934.	934.	934.	934.	934.	934.	934.	934.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	18070.00	45174.00	45174.00	45174.00	45174.00	45174.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	1655.58	1655.58	1655.58	1655.58	1655.58	1655.58
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	29916.	74789.	74789.	74789.	74789.	74789.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		23603.00	23604.00	23604.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		23603.	23604.	23604.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	23603.	23604.	23604.	29916.	74789.	74789.	74789.	74789.	74789.

	YEAR	14	15	16	17	18	19	20	21	22
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	322.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	322.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	322.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		1927.00	2177.00	2400.00	2508.00	2400.00	2012.00	1858.00	2069.00	2200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1141.00	1126.35	1126.35	1135.04	1135.04	1414.09	1428.22	1428.22	1428.22
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		2199.	2452.	2703.	2847.	2724.	2845.	2654.	2955.	3142.
VOLUME 1000 LCM		1927.00	2177.00	2400.00	2508.00	2400.00	2012.00	1858.00	2069.00	2200.00
UNIT PRICE 2 \$/1000 LCM		208.83	202.26	202.26	207.48	207.48	257.17	263.52	263.52	263.52
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		402.	440.	485.	520.	498.	517.	490.	545.	580.
SUBTOTAL \$*1,000		2601.	2892.	3189.	3367.	3222.	3363.	3143.	3500.	3722.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		1.70	1.25	0.85	1.40	1.40	2.40	1.40	0.90	1.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		58.	42.	29.	47.	47.	81.	47.	30.	34.
LENGTH KM		1.70	1.25	0.85	1.40	1.40	2.40	1.40	0.90	1.00
UNIT PRICE 2 \$/KM		6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		12.	9.	6.	10.	10.	17.	10.	6.	7.
SUBTOTAL \$*1,000		69.	51.	35.	57.	57.	98.	57.	37.	41.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		9979.	10857.	15404.	45828.	88113.	85318.	84572.	85559.	86178.
TOTAL CAPITAL COST \$*1,000		24017.	24053.	25273.	1386.	508.	534.	499.	551.	587.
TOTAL COST \$*1,000		33996.	34910.	40678.	47214.	88621.	85852.	85071.	86110.	86764.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	9.80
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	409.50
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	655.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	655.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		2274.00	2274.00	1043.00	0.	0.	0.	0.	0.	51366.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1439.83	1439.83	1439.83	0.	0.	0.	0.	0.	1221.82
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		3274.	3274.	1502.	0.	0.	0.	0.	0.	62760.
VOLUME 1000 LCM		2274.00	2274.00	1043.00	0.	0.	0.	0.	0.	51366.00
UNIT PRICE 2 \$/1000 LCM		268.74	268.74	268.74	0.	0.	0.	0.	0.	222.67
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		611.	611.	280.	0.	0.	0.	0.	0.	11437.
SUBTOTAL \$*1,000		3885.	3885.	1782.	0.	0.	0.	0.	0.	74197.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		1.50	1.75	1.90	0.	0.	0.	0.	0.	35.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	33825.11	33825.11	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		51.	59.	64.	0.	0.	0.	0.	0.	1211.
LENGTH KM		1.50	1.75	1.90	0.	0.	0.	0.	0.	35.80
UNIT PRICE 2 \$/KM		6915.90	6915.90	6915.90	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		10.	12.	13.	0.	0.	0.	0.	0.	248.
SUBTOTAL \$*1,000		61.	71.	77.	0.	0.	0.	0.	0.	1459.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		86563.	86588.	39857.	0.	0.	0.	0.	0.	945378.
TOTAL CAPITAL COST \$*1,000		621.	623.	293.	0.	0.	0.	0.	0.	146362.
TOTAL COST \$*1,000		87184.	87211.	40151.	0.	0.	0.	0.	0.	1091740.

	YEAR	5	6	7	8	9	10	11	12	13
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	108.30	108.30	108.30	108.30	108.30	108.30	108.30	201.70	201.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	67.	67.	67.	67.	67.	67.	67.	124.	124.
VOLUME	1000 BCM	108.30	108.30	108.30	108.30	108.30	108.30	108.30	201.70	201.70
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	16.	16.	16.	16.	16.	16.	30.	30.
SUBTOTAL	\$/1,000	83.	83.	83.	83.	83.	83.	83.	154.	154.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	108.30	108.30	108.30	108.30	108.30	108.30	108.30	201.70	201.70
HAUL DISTANCE	KM	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	22.	22.	22.	22.	22.	22.	22.	41.	41.
VOLUME*DISTANCE	1000 BCM*KM	97.50	97.50	97.50	97.50	97.50	97.50	97.50	181.50	181.50
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	4.	4.	4.	4.	4.	4.	8.	8.
SUBTOTAL	\$/1,000	26.	26.	26.	26.	26.	26.	26.	48.	48.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	108.30	108.30	108.30	108.30	108.30	108.30	108.30	201.70	201.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18.	18.	18.	18.	18.	18.	18.	33.	33.
VOLUME	1000 BCM	108.30	108.30	108.30	108.30	108.30	108.30	108.30	201.70	201.70
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	3.	3.	3.	3.	3.	3.	5.	5.
SUBTOTAL	\$/1,000	21.	21.	21.	21.	21.	21.	21.	38.	38.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	216.70	216.70	216.70	216.70	216.70	216.70	216.70	403.30	403.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	117.	117.	117.	117.	117.	117.	117.	218.	218.
VOLUME	1000 BCM	216.70	216.70	216.70	216.70	216.70	216.70	216.70	403.30	403.30
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	29.	29.	29.	29.	29.	29.	29.	53.	53.
SUBTOTAL	\$/1,000	146.	146.	146.	146.	146.	146.	146.	271.	271.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	216.70	216.70	216.70	216.70	216.70	216.70	216.70	403.30	403.30
HAUL DISTANCE	KM	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	39.	39.	39.	39.	39.	39.	39.	72.	72.
VOLUME*DISTANCE	1000 BCM*KM	216.70	216.70	216.70	216.70	216.70	216.70	216.70	403.30	403.30
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	7.	7.	7.	7.	7.	7.	14.	14.
SUBTOTAL	\$/1,000	46.	46.	46.	46.	46.	46.	46.	86.	86.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

	YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	325.00	325.00	325.00	325.00	325.00	325.00	325.00	605.00	605.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	69.	69.	69.	69.	69.	69.	69.	128.	128.
VOLUME	1000 BCM	325.00	325.00	325.00	325.00	325.00	325.00	325.00	605.00	605.00
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	15.	15.	15.	15.	15.	15.	15.	29.	29.
SUBTOTAL	\$/1000	84.	84.	84.	84.	84.	84.	84.	157.	157.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	325.00	325.00	325.00	325.00	325.00	325.00	325.00	605.00	605.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	140.	140.	140.	140.	140.	140.	140.	260.	260.
VOLUME	1000 BCM	325.00	325.00	325.00	325.00	325.00	325.00	325.00	605.00	605.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	37.	37.	37.	37.	37.	37.	37.	70.	70.
SUBTOTAL	\$/1000	177.	177.	177.	177.	177.	177.	177.	330.	330.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	325.00	325.00	325.00	325.00	325.00	325.00	325.00	605.00	605.00
HAUL DISTANCE	KM	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	463.	463.	463.	463.	463.	463.	463.	861.	861.
VOLUME*DISTANCE	1000 BCM*KM	2177.50	2177.50	2177.50	2177.50	2177.50	2177.50	2177.50	4053.50	4053.50
UNIT PRICE 2	\$/1000 BCM*KM	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	286.	286.	286.	286.	286.	286.	286.	532.	532.
SUBTOTAL	\$/1000	748.	748.	748.	748.	748.	748.	748.	1393.	1393.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	325.00	325.00	325.00	325.00	325.00	325.00	325.00	605.00	605.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	49.	49.	49.	49.	49.	49.	49.	91.	91.
VOLUME	1000 BCM	325.00	325.00	325.00	325.00	325.00	325.00	325.00	605.00	605.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	8.	8.	8.	8.	8.	8.	15.	15.
SUBTOTAL	\$/1,000	57.	57.	57.	57.	57.	57.	57.	106.	106.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	66.	66.	66.	66.	66.	66.	66.	66.	66.
LENGTH	KM	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	13.	13.	13.	13.	13.	13.	13.	13.	13.
SUBTOTAL	\$/1,000	79.	79.	79.	79.	79.	79.	79.	79.	79.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	32.50	32.50	32.50	32.50	32.50	32.50	32.50	60.50	60.50
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	50.25	66.55	82.85	99.15	115.44	131.74	148.04	231.34	261.68
OPERATING COST	\$/1,000	75.	92.	108.	124.	140.	157.	173.	278.	308.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	75.	92.	108.	124.	140.	157.	173.	278.	308.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	1154.	1170.	1187.	1203.	1219.	1235.	1252.	2229.	2259.
TOTAL CAPITAL COST	\$/1,000	424.	424.	424.	424.	424.	424.	424.	778.	778.
TOTAL COST	\$/1,000	1578.	1594.	1611.	1627.	1643.	1660.	1676.	3007.	3037.

	YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	201.70	304.30	371.70	371.70	371.70	371.70	371.70	439.70	439.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	124.	187.	229.	229.	229.	229.	229.	270.	270.
VOLUME	1000 BCM	201.70	304.30	371.70	371.70	371.70	371.70	371.70	439.70	439.70
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	30.	45.	55.	55.	55.	55.	55.	66.	66.
SUBTOTAL	\$/1,000	154.	233.	284.	284.	284.	284.	284.	336.	336.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	201.70	304.30	371.70	371.70	371.70	371.70	371.70	439.70	439.70
HAUL DISTANCE	KM	0.90	0.82	0.82	0.82	0.82	0.82	0.82	0.88	0.88
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	41.	56.	68.	68.	68.	68.	68.	87.	87.
VOLUME*DISTANCE	1000 BCM*KM	181.50	249.50	304.80	304.80	304.80	304.80	304.80	386.90	386.90
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	11.	13.	13.	13.	13.	13.	16.	16.
SUBTOTAL	\$/1,000	48.	67.	81.	81.	81.	81.	81.	103.	103.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	201.70	304.30	371.70	371.70	371.70	371.70	371.70	439.70	439.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	33.	50.	61.	61.	61.	61.	61.	72.	72.
VOLUME	1000 BCM	201.70	304.30	371.70	371.70	371.70	371.70	371.70	439.70	439.70
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5.	8.	10.	10.	10.	10.	10.	12.	12.
SUBTOTAL	\$/1,000	38.	58.	71.	71.	71.	71.	71.	83.	83.

	YEAR	14	15	16	17	18	19	20	21	22
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.75	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	33825.11	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	25.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.75	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	6915.90	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	5.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	31.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	403.30	608.70	743.30	743.30	743.30	743.30	743.30	879.30	879.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	218.	330.	403.	403.	403.	403.	403.	476.	476.
VOLUME	1000 BCM	403.30	608.70	743.30	743.30	743.30	743.30	743.30	879.30	879.30
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	53.	80.	98.	98.	98.	98.	98.	116.	116.
SUBTOTAL	\$/1,000	271.	410.	500.	500.	500.	500.	500.	592.	592.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	403.30	608.70	743.30	743.30	743.30	743.30	743.30	879.30	879.30
HAUL DISTANCE	KM	1.00	0.79	0.79	0.79	0.79	0.79	0.79	0.93	0.93
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	72.	86.	105.	105.	105.	105.	105.	146.	146.
VOLUME*DISTANCE	1000 BCM*KM	403.30	480.90	587.20	587.20	587.20	587.20	587.20	817.70	817.70
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	14.	16.	20.	20.	20.	20.	20.	28.	28.
SUBTOTAL	\$/1,000	86.	102.	125.	125.	125.	125.	125.	174.	174.

	YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	605.00	913.00	1115.00	1115.00	1115.00	1115.00	1115.00	1319.00	1319.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	128.	193.	236.	236.	236.	236.	236.	279.	279.
VOLUME	1000 BCM	605.00	913.00	1115.00	1115.00	1115.00	1115.00	1115.00	1319.00	1319.00
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	29.	44.	53.	53.	53.	53.	53.	63.	63.
SUBTOTAL	\$/1,000	157.	237.	289.	289.	289.	289.	289.	342.	342.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	605.00	913.00	1115.00	1115.00	1115.00	1115.00	1115.00	1319.00	1319.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	260.	393.	480.	480.	480.	480.	480.	567.	567.
VOLUME	1000 BCM	605.00	913.00	1115.00	1115.00	1115.00	1115.00	1115.00	1319.00	1319.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	70.	105.	128.	128.	128.	128.	128.	152.	152.
SUBTOTAL	\$/1,000	330.	498.	608.	608.	608.	608.	608.	719.	719.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	605.00	913.00	1115.00	1115.00	1115.00	1115.00	1115.00	1319.00	1319.00
HAUL DISTANCE	KM	6.70	2.98	2.98	2.98	2.98	2.98	2.98	4.49	5.46
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	861.	578.	706.	706.	706.	706.	706.	1258.	1530.
VOLUME*DISTANCE	1000 BCM*KM	4053.50	2770.40	3322.70	3322.70	3322.70	3322.70	3322.70	5922.30	7201.70
UNIT PRICE 2	\$/1000 BCM*KM	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	532.	364.	436.	436.	436.	436.	436.	777.	945.
SUBTOTAL	\$/1,000	1393.	942.	1142.	1142.	1142.	1142.	1142.	2035.	2475.

	YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	605.00	913.00	1115.00	1115.00	1115.00	1115.00	1115.00	1319.00	1319.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	91.	137.	168.	168.	168.	168.	168.	199.	199.
VOLUME	1000 BCM	605.00	913.00	1115.00	1115.00	1115.00	1115.00	1115.00	1319.00	1319.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	15.	22.	27.	27.	27.	27.	27.	32.	32.
SUBTOTAL	\$/1,000	106.	160.	195.	195.	195.	195.	195.	231.	231.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	1.95	6.02	7.29	7.29	7.29	7.29	7.29	7.92	7.92
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	66.	204.	247.	247.	247.	247.	247.	268.	268.
LENGTH	KM	1.95	6.02	7.29	7.29	7.29	7.29	7.29	7.92	7.92
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	13.	42.	50.	50.	50.	50.	50.	55.	55.
SUBTOTAL	\$/1,000	79.	245.	297.	297.	297.	297.	297.	323.	323.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	60.50	91.30	111.50	111.50	111.50	111.50	111.50	131.90	131.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	292.02	267.20	323.12	379.03	434.95	490.87	546.79	612.93	679.08
OPERATING COST	\$/1,000	338.	337.	409.	465.	521.	577.	632.	714.	780.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	338.	337.	409.	465.	521.	577.	632.	714.	780.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	2290.	2865.	3214.	3270.	3326.	3382.	3438.	4460.	4798.
TOTAL CAPITAL COST	\$/1,000	778.	797.	908.	908.	908.	908.	908.	1336.	1504.
TOTAL COST	\$/1,000	3068.	3662.	4123.	4179.	4234.	4290.	4346.	5797.	6302.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY No.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	439.70	439.70	459.30	459.30	621.70	621.70	603.00	603.00	8761.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	270.	270.	283.	283.	382.	382.	371.	371.	5390.
VOLUME	1000 BCM	439.70	439.70	459.30	459.30	621.70	621.70	603.00	603.00	8761.10
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	66.	66.	68.	68.	93.	93.	90.	90.	1305.
SUBTOTAL	\$/1,000	336.	336.	351.	351.	475.	475.	461.	461.	6695.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	439.70	439.70	459.30	459.30	621.70	621.70	603.00	603.00	8761.10
HAUL DISTANCE	KM	0.88	0.88	0.87	0.87	0.90	0.84	0.85	0.85	0.86
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	87.	87.	90.	90.	126.	117.	115.	115.	1696.
VOLUME*DISTANCE	1000 BCM*KM	386.90	386.90	399.60	399.60	559.50	522.20	512.60	512.60	7551.70
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	16.	17.	17.	24.	22.	22.	22.	320.
SUBTOTAL	\$/1,000	103.	103.	107.	107.	149.	139.	137.	137.	2016.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	439.70	439.70	459.30	459.30	621.70	621.70	603.00	603.00	8761.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	72.	72.	75.	75.	101.	101.	98.	98.	1430.
VOLUME	1000 BCM	439.70	439.70	459.30	459.30	621.70	621.70	603.00	603.00	8761.10
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	12.	12.	12.	12.	17.	17.	16.	16.	233.
SUBTOTAL	\$/1,000	83.	83.	87.	87.	118.	118.	114.	114.	1663.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 RWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	2.25	0.40	0.	4.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	33825.11	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	76.	14.	0.	145.
DISTANCE	KM	0.	0.	0.	0.	0.	2.25	0.40	0.	4.30
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	6915.90	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	16.	3.	0.	30.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	92.	16.	0.	175.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	879.30	879.30	918.70	918.70	1243.30	1243.30	1206.00	1206.00	17521.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	476.	476.	498.	498.	673.	673.	653.	653.	9489.
VOLUME	1000 BCM	879.30	879.30	918.70	918.70	1243.30	1243.30	1206.00	1206.00	17521.90
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	116.	116.	121.	121.	164.	164.	159.	159.	2305.
SUBTOTAL	\$/1,000	592.	592.	618.	618.	837.	837.	812.	812.	11794.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	879.30	879.30	918.70	918.70	1243.30	1243.30	1206.00	1206.00	17521.90
HAUL DISTANCE	KM	0.93	0.93	0.92	0.92	1.00	1.00	0.55	0.55	0.86
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	146.	146.	151.	151.	222.	222.	118.	118.	2703.
VOLUME*DISTANCE	1000 BCM*KM	817.70	817.70	845.20	845.20	1243.30	1243.30	663.30	663.30	15134.80
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	28.	28.	29.	29.	42.	42.	23.	23.	515.
SUBTOTAL	\$/1,000	174.	174.	180.	180.	264.	264.	141.	141.	3217.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1319.00	1319.00	1378.00	1378.00	1865.00	1865.00	1809.00	1809.00	26283.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	279.	279.	292.	292.	395.	395.	383.	383.	5561.
VOLUME	1000 BCM	1319.00	1319.00	1378.00	1378.00	1865.00	1865.00	1809.00	1809.00	26283.00
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	63.	63.	66.	66.	89.	89.	86.	86.	1253.
SUBTOTAL	\$/1,000	342.	342.	357.	357.	483.	483.	469.	469.	6813.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	1319.00	1319.00	1378.00	1378.00	1865.00	1865.00	1809.00	1809.00	26283.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	567.	567.	593.	593.	802.	802.	778.	778.	11305.
VOLUME	1000 BCM	1319.00	1319.00	1378.00	1378.00	1865.00	1865.00	1809.00	1809.00	26283.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	152.	152.	159.	159.	215.	215.	208.	208.	3023.
SUBTOTAL	\$/1,000	719.	719.	751.	751.	1017.	1017.	986.	986.	14328.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	1319.00	1319.00	1378.00	1378.00	1865.00	1865.00	1809.00	1809.00	26283.00
HAUL DISTANCE	KM	5.46	5.46	5.59	5.59	6.70	5.41	2.91	2.70	4.74
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1530.	1530.	1636.	1636.	2654.	2143.	1118.	1037.	26461.
VOLUME*DISTANCE	1000 BCM*KM	7201.70	7201.70	7703.00	7703.00	12495.50	10089.60	5264.20	4884.30	124631.40
UNIT PRICE 2	\$/1000 BCM*KM	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	945.	945.	1011.	1011.	1640.	1324.	691.	641.	16359.
SUBTOTAL	\$/1,000	2475.	2475.	2647.	2647.	4294.	3467.	1809.	1679.	42820.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	1319.00	1319.00	1378.00	1378.00	1865.00	1865.00	1809.00	1809.00	26283.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	199.	199.	207.	207.	281.	281.	272.	272.	3957.
VOLUME	1000 BCM	1319.00	1319.00	1378.00	1378.00	1865.00	1865.00	1809.00	1809.00	26283.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	32.	32.	34.	34.	46.	46.	44.	44.	644.
SUBTOTAL	\$/1,000	231.	231.	241.	241.	327.	327.	317.	317.	4602.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	7.92	7.92	8.27	8.27	11.19	12.69	11.06	10.85	158.83
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	268.	268.	280.	280.	379.	429.	374.	367.	5372.
LENGTH	KM	7.92	7.92	8.27	8.27	11.19	12.69	11.06	10.85	158.83
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	55.	55.	57.	57.	77.	88.	76.	75.	1098.
SUBTOTAL	\$/1,000	323.	323.	337.	337.	456.	517.	451.	442.	6471.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	131.90	131.90	137.80	137.80	186.50	186.50	180.90	180.90	2628.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	745.23	811.38	880.48	949.59	1043.12	1136.65	1227.37	1318.09	13358.89
OPERATING COST	\$/1,000	847.	913.	986.	1055.	1186.	1280.	1366.	1457.	15378.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	847.	913.	986.	1055.	1186.	1280.	1366.	1457.	15378.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	4864.	4931.	5219.	5288.	7377.	7179.	5850.	5821.	91713.
TOTAL CAPITAL COST	\$/1,000	1504.	1504.	1595.	1595.	2434.	2163.	1449.	1391.	27561.
TOTAL COST	\$/1,000	6369.	6435.	6814.	6883.	9811.	9342.	7299.	7212.	119274.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	4.00	8.00	20.00	39.00	59.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.
6.3 MINING										
NO. OF PERSONS	PERSONS	3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/PERSON	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
TOTAL CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
COST SUMMARY

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	884.	944.	1001.	1001.	1001.	1001.
CAPITAL COST	\$*1,000	0.	6307.	8061.	0.	1755.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	6307.	8061.	884.	2699.	1001.	1001.	1001.	1001.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	3756.	1286.	2757.	2022.	4608.	4112.	3163.	569.	155.
CAPITAL COST	\$*1,000	670.	235.	502.	363.	852.	764.	587.	104.	26.
SUBTOTAL	\$*1,000	4426.	1521.	3260.	2385.	5461.	4876.	3750.	673.	181.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	8193.	8438.	14558.	21636.	23392.	23958.
CAPITAL COST	\$*1,000	17318.	17317.	29125.	67755.	26961.	25900.	16514.	3963.	3733.
SUBTOTAL	\$*1,000	17318.	17317.	29125.	75948.	35399.	40458.	38150.	27355.	27691.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	1982.	0.	21275.	21275.	8859.	11844.	13711.	14283.
CAPITAL COST	\$*1,000	0.	326.	10564.	12937.	12935.	9659.	4476.	2797.	2652.
SUBTOTAL	\$*1,000	0.	2307.	10564.	34212.	34210.	18518.	16320.	16508.	16935.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	1232.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	444.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	1676.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	328.	717.	1793.	3496.	5288.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4084.	3985.	4550.	35869.	40553.	35521.	44635.	45663.	47621.
TOTAL CAPITAL COST	\$*1,000	17988.	24184.	48252.	81055.	42503.	36323.	21577.	6864.	6855.
TOTAL COST	\$*1,000	22072.	28169.	52802.	116924.	83056.	71844.	66212.	52528.	54476.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
ORE BODY NO.2 IMPROVED LEVEL (3 BWF)
COST SUMMARY

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	132.	233.	591.	813.	1534.	3151.	1084.	3239.	2517.
CAPITAL COST	\$*1,000	21.	36.	102.	142.	277.	583.	197.	597.	465.
SUBTOTAL	\$*1,000	153.	269.	693.	955.	1811.	3735.	1280.	3836.	2982.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	24950.	26213.	24275.	24087.	22398.	22079.	23272.	21206.	23838.
CAPITAL COST	\$*1,000	661.	724.	0.	0.	3733.	0.	0.	0.	7051.
SUBTOTAL	\$*1,000	25611.	26937.	24275.	24087.	26131.	22079.	23272.	21206.	30889.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	14079.	14064.	13540.	13678.	20148.	19629.	12496.	9118.	10583.
CAPITAL COST	\$*1,000	2458.	2401.	439.	446.	1925.	1919.	425.	564.	493.
SUBTOTAL	\$*1,000	16538.	16465.	13979.	14124.	22073.	21548.	12921.	9682.	11076.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	1154.	1170.	1187.	1203.	1219.	1235.	1252.	2229.	2259.
CAPITAL COST	\$*1,000	424.	424.	424.	424.	424.	424.	424.	778.	778.
SUBTOTAL	\$*1,000	1578.	1594.	1611.	1627.	1643.	1660.	1676.	3007.	3037.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	48308.	49672.	47585.	47773.	53290.	54087.	46096.	43785.	47189.
TOTAL CAPITAL COST	\$*1,000	3564.	3586.	965.	1012.	6360.	2926.	1046.	1939.	8786.
TOTAL COST	\$*1,000	51871.	53258.	48551.	48785.	59650.	57013.	47142.	45724.	55975.

		YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES											
OPERATING COST	\$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS											
OPERATING COST	\$*1,000		445.	116.	184.	171.	174.	289.	415.	625.	281.
CAPITAL COST	\$*1,000		80.	18.	29.	27.	27.	49.	75.	116.	54.
SUBTOTAL	\$*1,000		525.	134.	213.	197.	201.	338.	490.	741.	335.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING											
OPERATING COST	\$*1,000		26826.	22937.	25064.	25797.	28465.	25689.	27822.	29265.	28770.
CAPITAL COST	\$*1,000		12029.	0.	0.	0.	7230.	3733.	724.	5287.	15817.
SUBTOTAL	\$*1,000		38854.	22937.	25064.	25797.	35695.	29422.	28546.	34552.	44587.
COST CENTRE 4: TAILINGS DISPOSAL											
OPERATING COST	\$*1,000		9979.	10857.	15404.	45828.	88113.	85318.	84572.	85559.	86178.
CAPITAL COST	\$*1,000		24017.	24053.	25273.	1386.	508.	534.	499.	551.	587.
SUBTOTAL	\$*1,000		33996.	34910.	40678.	47214.	88621.	85852.	85071.	86110.	86764.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES											
OPERATING COST	\$*1,000		2290.	2865.	3214.	3270.	3326.	3382.	3438.	4460.	4798.
CAPITAL COST	\$*1,000		778.	797.	908.	908.	908.	908.	908.	1336.	1504.
SUBTOTAL	\$*1,000		3068.	3662.	4123.	4179.	4234.	4290.	4346.	5797.	6302.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES											
OPERATING COST	\$*1,000		6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.	6991.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$*1,000		47531.	44767.	51859.	83058.	128070.	122670.	124238.	127901.	128019.
TOTAL CAPITAL COST	\$*1,000		36903.	24868.	26210.	2321.	8674.	5224.	2206.	7291.	17961.
TOTAL COST	\$*1,000		84435.	69636.	78069.	85379.	136743.	127894.	126445.	135192.	145981.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1001.	1001.	694.	41.	41.	41.	41.	41.	26751.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	16123.
SUBTOTAL	\$*1,000	1001.	1001.	694.	41.	41.	41.	41.	41.	42874.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	135.	0.	0.	0.	0.	0.	0.	0.	38556.
CAPITAL COST	\$*1,000	25.	0.	0.	0.	0.	0.	0.	0.	7022.
SUBTOTAL	\$*1,000	160.	0.	0.	0.	0.	0.	0.	0.	45578.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	28209.	25445.	12324.	0.	0.	0.	0.	0.	619106.
CAPITAL COST	\$*1,000	2260.	0.	0.	0.	0.	0.	0.	0.	267835.
SUBTOTAL	\$*1,000	30469.	25445.	12324.	0.	0.	0.	0.	0.	886941.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	86563.	86588.	39857.	0.	0.	0.	0.	0.	945378.
CAPITAL COST	\$*1,000	621.	623.	293.	0.	0.	0.	0.	0.	146362.
SUBTOTAL	\$*1,000	87184.	87211.	40151.	0.	0.	0.	0.	0.	1091740.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	4864.	4931.	5219.	5288.	7377.	7179.	5850.	5821.	91713.
CAPITAL COST	\$*1,000	1504.	1504.	1595.	1595.	2434.	2163.	1449.	1391.	27561.
SUBTOTAL	\$*1,000	6369.	6435.	6814.	6883.	9811.	9342.	7299.	7212.	119274.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6991.	6991.	6991.	1223.	1223.	1223.	1223.	1223.	192514.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	127764.	124955.	65086.	6552.	8640.	8443.	7114.	7084.	1914019.
TOTAL CAPITAL COST	\$*1,000	4410.	2127.	1888.	1595.	2434.	2163.	1449.	1391.	464903.
TOTAL COST	\$*1,000	132174.	127083.	66974.	8146.	11074.	10606.	8563.	8476.	2378922.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 RWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	604.	586.	565.	514.	467.	425.
CAPITAL COST	\$*1,000	0.	5212.	6056.	0.	1090.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	5212.	6056.	604.	1676.	565.	514.	467.	425.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	3414.	1063.	2072.	1381.	2861.	2321.	1623.	265.	66.
CAPITAL COST	\$*1,000	609.	194.	377.	248.	529.	431.	301.	49.	11.
SUBTOTAL	\$*1,000	4023.	1257.	2449.	1629.	3391.	2752.	1924.	314.	77.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	5596.	5239.	8218.	11103.	10912.	10161.
CAPITAL COST	\$*1,000	15744.	14312.	21882.	46278.	16741.	14620.	8474.	1849.	1583.
SUBTOTAL	\$*1,000	15744.	14312.	21882.	51874.	21980.	22838.	19577.	12761.	11744.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	1638.	0.	14531.	13210.	5001.	6078.	6396.	6057.
CAPITAL COST	\$*1,000	0.	269.	7937.	8836.	8032.	5452.	2297.	1305.	1125.
SUBTOTAL	\$*1,000	0.	1907.	7937.	23367.	21241.	10453.	8375.	7701.	7182.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	523.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	188.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	711.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	299.	593.	1347.	2388.	3284.	3946.	3588.	3261.	2965.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	3713.	3293.	3418.	24499.	25180.	20051.	22905.	21302.	20196.
TOTAL CAPITAL COST	\$*1,000	16352.	19987.	36253.	55362.	26391.	20503.	11072.	3202.	2907.
TOTAL COST	\$*1,000	20065.	23280.	39671.	79861.	51571.	40554.	33977.	24504.	23103.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	386.	351.	319.	290.	264.	240.	218.	198.	180.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	386.	351.	319.	290.	264.	240.	218.	198.	180.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	51.	82.	188.	236.	404.	754.	236.	641.	453.
CAPITAL COST	\$*1,000	8.	13.	33.	41.	73.	140.	43.	118.	84.
SUBTOTAL	\$*1,000	59.	94.	221.	277.	477.	894.	279.	759.	536.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	9619.	9188.	7735.	6977.	5898.	5285.	5065.	4196.	4287.
CAPITAL COST	\$*1,000	255.	254.	0.	0.	983.	0.	0.	0.	1268.
SUBTOTAL	\$*1,000	9874.	9441.	7735.	6977.	6881.	5285.	5065.	4196.	5556.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	5428.	4929.	4314.	3962.	5306.	4699.	2720.	1804.	1903.
CAPITAL COST	\$*1,000	948.	842.	140.	129.	507.	459.	93.	112.	89.
SUBTOTAL	\$*1,000	6376.	5771.	4454.	4091.	5813.	5158.	2812.	1916.	1992.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	445.	410.	378.	348.	321.	296.	272.	441.	406.
CAPITAL COST	\$*1,000	164.	149.	135.	123.	112.	102.	92.	154.	140.
SUBTOTAL	\$*1,000	608.	559.	513.	471.	433.	397.	365.	595.	546.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2695.	2450.	2228.	2025.	1841.	1674.	1521.	1383.	1257.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	18625.	17410.	15162.	13838.	14033.	12948.	10032.	8663.	8487.
TOTAL CAPITAL COST	\$*1,000	1374.	1257.	308.	293.	1675.	701.	228.	384.	1580.
TOTAL COST	\$*1,000	19999.	18667.	15470.	14131.	15708.	13649.	10259.	9046.	10068.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	164.	149.	135.	123.	112.	102.	92.	84.	76.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	164.	149.	135.	123.	112.	102.	92.	84.	76.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	73.	17.	25.	21.	19.	29.	38.	52.	21.
CAPITAL COST	\$*1,000	13.	3.	4.	3.	3.	5.	7.	10.	4.
SUBTOTAL	\$*1,000	86.	20.	29.	24.	22.	34.	45.	62.	26.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	4386.	3409.	3387.	3169.	3179.	2608.	2568.	2455.	2195.
CAPITAL COST	\$*1,000	1967.	0.	0.	0.	807.	379.	67.	444.	1206.
SUBTOTAL	\$*1,000	6353.	3409.	3387.	3169.	3986.	2987.	2635.	2899.	3401.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	1632.	1614.	2082.	5630.	9840.	8662.	7806.	7179.	6573.
CAPITAL COST	\$*1,000	3927.	3575.	3415.	170.	57.	54.	46.	46.	45.
SUBTOTAL	\$*1,000	5559.	5189.	5497.	5800.	9897.	8716.	7852.	7225.	6618.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	374.	426.	434.	402.	371.	343.	317.	374.	366.
CAPITAL COST	\$*1,000	127.	119.	123.	112.	101.	92.	84.	112.	115.
SUBTOTAL	\$*1,000	502.	544.	557.	513.	473.	436.	401.	486.	481.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1143.	1039.	945.	859.	781.	710.	645.	587.	533.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1143.	1039.	945.	859.	781.	710.	645.	587.	533.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	7772.	6654.	7008.	10203.	14303.	12454.	11467.	10732.	9765.
TOTAL CAPITAL COST	\$*1,000	6034.	3697.	3542.	285.	969.	530.	204.	612.	1370.
TOTAL COST	\$*1,000	13806.	10351.	10550.	10488.	15271.	12985.	11670.	11343.	11135.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 IMPROVED LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	69.	63.	40.	2.	2.	2.	2.	1.	6823.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	12358.
SUBTOTAL	\$*1,000	69.	63.	40.	2.	2.	2.	2.	1.	19181.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	9.	0.	0.	0.	0.	0.	0.	0.	18417.
CAPITAL COST	\$*1,000	2.	0.	0.	0.	0.	0.	0.	0.	3354.
SUBTOTAL	\$*1,000	11.	0.	0.	0.	0.	0.	0.	0.	21771.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	1956.	1604.	706.	0.	0.	0.	0.	0.	141102.
CAPITAL COST	\$*1,000	157.	0.	0.	0.	0.	0.	0.	0.	149269.
SUBTOTAL	\$*1,000	2113.	1604.	706.	0.	0.	0.	0.	0.	290370.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	6003.	5458.	2284.	0.	0.	0.	0.	0.	152738.
CAPITAL COST	\$*1,000	43.	39.	17.	0.	0.	0.	0.	0.	50005.
SUBTOTAL	\$*1,000	6046.	5498.	2301.	0.	0.	0.	0.	0.	202743.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	337.	311.	299.	276.	349.	309.	229.	207.	9567.
CAPITAL COST	\$*1,000	104.	95.	91.	83.	115.	93.	57.	50.	3030.
SUBTOTAL	\$*1,000	442.	406.	390.	359.	465.	402.	286.	257.	12597.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	485.	441.	401.	64.	58.	53.	48.	44.	47578.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	8860.	7877.	3730.	341.	409.	364.	278.	252.	376224.
TOTAL CAPITAL COST	\$*1,000	306.	134.	108.	83.	115.	93.	57.	50.	218016.
TOTAL COST	\$*1,000	9165.	8011.	3838.	424.	525.	457.	335.	302.	594240.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

7.0

120,000 BPCD

Bucket Wheel Mine

Enhanced Level

		YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL											
QUANTITY 1			0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000			902.00	902.00	902.00	902.00	902.00	902.00	902.00	902.00	902.00
OPERATING COST \$*1,000			902.	902.	902.	902.	902.	902.	902.	902.	902.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000			0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000			0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		902.	902.	902.	902.	902.	902.	902.	902.	902.
1.2 BUILDINGS											
NO. OF PERSONS	PERSONS		238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000			0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000			238.	238.	238.	238.	238.	238.	238.	238.	238.
NO. OF PERSONS	PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000			0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000			0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		238.	238.	238.	238.	238.	238.	238.	238.	238.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$*1,000		1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.
TOTAL CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000		1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY 10.2 ENHANCED LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

1.1 PIPE-POWER DISTRIBUTION & CONTROL

QUANTITY 1	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	902.00	902.00	902.00	902.00	902.00	902.00
OPERATING COST \$*1,000	0.	0.	0.	902.	902.	902.	902.	902.	902.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	9049.00	9050.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	9049.	9050.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	9049.	9050.	902.	902.	902.	902.	902.	902.

1.2 BUILDINGS

NO. OF PERSONS PERSONS	0.	0.	0.	119.00	180.00	238.00	238.00	238.00	238.00
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON	0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	119.	180.	238.	238.	238.	238.
NO. OF PERSONS PERSONS	0.	0.	119.00	0.	119.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON	0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	1785.	0.	1785.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	1785.	119.	1965.	238.	238.	238.	238.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	0.	0.	0.	1021.	1082.	1140.	1140.	1140.	1140.
TOTAL CAPITAL COST \$*1,000	0.	9049.	10835.	0.	1785.	0.	0.	0.	0.
TOTAL COST \$*1,000	0.	9049.	10835.	1021.	2867.	1140.	1140.	1140.	1140.

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		902.00	902.00	902.00	902.00	902.00	902.00	902.00	902.00	902.00
OPERATING COST \$*1,000		902.	902.	902.	902.	902.	902.	902.	902.	902.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	902.	902.	902.	902.	902.	902.	902.	902.	902.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00	238.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		238.	238.	238.	238.	238.	238.	238.	238.	238.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	238.	238.	238.	238.	238.	238.	238.	238.	238.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 RWF)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 WINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		902.00	902.00	541.20	0.	0.	0.	0.	0.	23993.20
OPERATING COST \$*1,000		902.	902.	541.	0.	0.	0.	0.	0.	23993.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	18099.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	18099.
SUBTOTAL	\$*1,000	902.	902.	541.	0.	0.	0.	0.	0.	42092.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		238.00	238.00	238.00	43.00	43.00	43.00	43.00	43.00	6464.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		238.	238.	238.	43.	43.	43.	43.	43.	6464.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	238.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3570.
SUBTOTAL	\$*1,000	238.	238.	238.	43.	43.	43.	43.	43.	10034.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		1140.	1140.	779.	43.	43.	43.	43.	43.	30457.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21669.
TOTAL COST \$*1,000		1140.	1140.	779.	43.	43.	43.	43.	43.	52126.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING										
AREA	HECTARES	653.30	169.80	199.90	252.60	302.90	100.20	80.10	57.20	72.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	828.	215.	253.	320.	384.	127.	101.	72.	92.
AREA	HECTARES	653.30	169.80	199.90	252.60	302.90	100.20	80.10	57.20	72.40
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	129.	33.	39.	50.	60.	20.	16.	11.	14.
SUBTOTAL	\$/1,000	956.	249.	293.	370.	443.	147.	117.	84.	106.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	133.90	41.80	84.60	83.80	72.80	22.70	1.60	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	248.	77.	157.	155.	135.	42.	3.	0.	0.
DITCH VOLUME	1000 BCM	133.90	41.80	84.60	83.80	72.80	22.70	1.60	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	40.	13.	25.	25.	22.	7.	0.	0.	0.
SUBTOTAL	\$/1,000	288.	90.	182.	180.	157.	49.	3.	0.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1081.	307.	937.	639.	1311.	1481.	1218.	196.	17.
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	263.	75.	228.	155.	319.	360.	296.	48.	4.
SUBTOTAL	\$/1,000	1344.	381.	1164.	794.	1630.	1842.	1514.	243.	21.

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
HAUL DISTANCE	KM	1.80	2.40	1.50	1.40	1.70	1.60	1.50	1.10	1.60
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	573.	217.	414.	263.	657.	698.	538.	63.	8.
VOLUME*DISTANCE	1000 BCM*KM	2286.00	864.00	1650.00	1050.00	2618.00	2784.00	2145.00	253.00	32.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	111.	42.	80.	51.	127.	136.	104.	12.	2.
SUBTOTAL	*\$1,000	685.	259.	494.	314.	784.	834.	642.	76.	10.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	609.	173.	527.	360.	738.	834.	686.	110.	10.
VOLUME	1000 BCM	1270.00	360.00	1100.00	750.00	1540.00	1740.00	1430.00	230.00	20.00
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	44.	12.	38.	26.	53.	60.	49.	8.	1.
SUBTOTAL	*\$1,000	653.	185.	565.	386.	792.	894.	735.	118.	10.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	4.80	4.70	0.84	1.20	7.80	2.95	1.30	1.10	0.78
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	162.	159.	28.	41.	264.	100.	44.	37.	26.
LENGTH	KM	4.80	4.70	0.84	1.20	7.80	2.95	1.30	1.10	0.78
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	33.	33.	6.	8.	54.	20.	9.	8.	5.
SUBTOTAL	*\$1,000	196.	191.	34.	49.	318.	120.	53.	45.	32.

COST CENTRE SUMMARY

TOTAL OPERATING COST	*\$1,000	3501.	1147.	2316.	1777.	3488.	3283.	2589.	479.	153.
TOTAL CAPITAL COST	*\$1,000	620.	208.	417.	315.	635.	603.	475.	87.	26.
TOTAL COST	*\$1,000	4121.	1355.	2733.	2093.	4123.	3885.	3065.	566.	179.

	YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING										
AREA	HECTARES	90.00	161.00	191.60	184.50	279.50	177.90	114.60	20.00	68.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	114.	204.	243.	234.	354.	225.	145.	25.	87.
AREA	HECTARES	90.00	161.00	191.60	184.50	279.50	177.90	114.60	20.00	68.30
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	18.	32.	38.	36.	55.	35.	23.	4.	13.
SUBTOTAL	\$/1,000	132.	236.	280.	270.	409.	260.	168.	29.	100.
2.2 DUSKEG DRAINAGE										
DITCH VOLUME	1000 BCM	9.70	15.70	34.70	62.40	17.20	88.60	61.30	8.40	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18.	29.	64.	115.	32.	164.	113.	16.	0.
DITCH VOLUME	1000 BCM	9.70	15.70	34.70	62.40	17.20	88.60	61.30	8.40	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	5.	10.	19.	5.	27.	18.	3.	0.
SUBTOTAL	\$/1,000	21.	34.	75.	134.	37.	190.	132.	18.	0.
2.3 DUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	94.	170.	366.	809.	289.	1575.	1090.
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	23.	41.	89.	197.	70.	383.	265.
SUBTOTAL	\$/1,000	0.	0.	116.	212.	455.	1005.	360.	1958.	1355.

		YEAR	5	6	7	8	9	10	11	12	13
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)											
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00	
HAUL DISTANCE	KM	0.	0.	0.70	1.90	2.70	1.70	2.70	2.80	0.70	
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	250.80	250.80	250.80	250.80	250.80	250.80	250.80	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
OPERATING COST	\$/1,000	0.	0.	19.	95.	291.	405.	230.	1299.	225.	
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	77.00	380.00	1161.00	1615.00	918.00	5180.00	896.00	
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	48.70	48.70	48.70	48.70	48.70	48.70	48.70	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
CAPITAL COST	\$/1,000	0.	0.	4.	19.	57.	79.	45.	252.	44.	
SUBTOTAL	\$/1,000	0.	0.	23.	114.	348.	484.	275.	1551.	268.	
2.5 MUSKEG PLACEMENT											
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 1	\$/1000 BCM	0.	0.	479.40	479.40	479.40	479.40	479.40	479.40	479.40	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
OPERATING COST	\$/1,000	0.	0.	53.	96.	206.	455.	163.	887.	614.	
VOLUME	1000 BCM	0.	0.	110.00	200.00	430.00	950.00	340.00	1850.00	1280.00	
UNIT PRICE 2	\$/1000 BCM	0.	0.	34.60	34.60	34.60	34.60	34.60	34.60	34.60	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
CAPITAL COST	\$/1,000	0.	0.	4.	7.	15.	33.	12.	64.	44.	
SUBTOTAL	\$/1,000	0.	0.	57.	103.	221.	488.	175.	951.	658.	
2.6 MUSKEG ROAD CONSTRUCTION											
LENGTH	KM	0.	0.	1.95	1.10	4.10	4.13	3.45	1.20	3.45	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 1	\$/KM	0.	0.	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
OPERATING COST	\$/1,000	0.	0.	66.	37.	139.	140.	117.	41.	117.	
LENGTH	KM	0.	0.	1.95	1.10	4.10	4.13	3.45	1.20	3.45	
UNIT PRICE 2	\$/KM	0.	0.	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
CAPITAL COST	\$/1,000	0.	0.	13.	8.	28.	29.	24.	8.	24.	
SUBTOTAL	\$/1,000	0.	0.	79.	45.	167.	168.	141.	49.	141.	
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000		132.	233.	539.	748.	1388.	2198.	1058.	3843.	2131.
TOTAL CAPITAL COST	\$/1,000		21.	36.	92.	129.	249.	398.	192.	714.	390.
TOTAL COST	\$/1,000		153.	269.	631.	877.	1637.	2597.	1250.	4557.	2522.

	YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING										
AREA	HECTARES	82.10	91.80	145.40	131.40	114.20	110.50	46.60	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	104.	116.	184.	166.	145.	140.	59.	0.	0.
AREA	HECTARES	82.10	91.80	145.40	131.40	114.20	110.50	46.60	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	18.	29.	26.	22.	22.	9.	0.	0.
SUBTOTAL	\$/1,000	120.	134.	213.	192.	167.	162.	68.	0.	0.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	0.	2.40	15.70	27.50	8.00	5.80	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1850.00	1850.00	1850.00	1850.00	1850.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	4.	29.	51.	15.	11.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	2.40	15.70	27.50	8.00	5.80	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	300.00	300.00	300.00	300.00	300.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	1.	5.	8.	2.	2.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	5.	34.	59.	17.	12.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	0.	0.	0.	0.	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	145.	0.	0.	0.	0.	26.	162.	289.	85.
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
UNIT PRICE 2	\$/1000 BCM	207.00	0.	0.	0.	0.	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	35.	0.	0.	0.	0.	6.	39.	70.	21.
SUBTOTAL	\$/1,000	180.	0.	0.	0.	0.	32.	201.	360.	106.

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
HAUL DISTANCE	KM	0.50	0.	0.	0.	0.	1.20	0.80	0.90	1.70
UNIT PRICE 1	\$/1000 BCM*KM	250.80	0.	0.	0.	0.	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	21.	0.	0.	0.	0.	9.	38.	77.	43.
VOLUME*DISTANCE	1000 BCM*KM	85.00	0.	0.	0.	0.	36.00	152.00	306.00	170.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	0.	0.	0.	0.	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	0.	0.	0.	0.	2.	7.	15.	8.
SUBTOTAL	\$/1,000	25.	0.	0.	0.	0.	11.	46.	92.	51.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	0.	0.	0.	0.	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	81.	0.	0.	0.	0.	14.	91.	163.	48.
VOLUME	1000 BCM	170.00	0.	0.	0.	0.	30.00	190.00	340.00	100.00
UNIT PRICE 2	\$/1000 BCM	34.60	0.	0.	0.	0.	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	0.	0.	0.	0.	1.	7.	12.	3.
SUBTOTAL	\$/1,000	87.	0.	0.	0.	0.	15.	98.	175.	51.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.50	0.	0.	0.	0.	1.40	1.05	1.50	2.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17.	0.	0.	0.	0.	47.	36.	51.	88.
LENGTH	KM	0.50	0.	0.	0.	0.	1.40	1.05	1.50	2.60
UNIT PRICE 2	\$/KM	6215.90	0.	0.	0.	0.	6215.90	6215.90	6215.90	6215.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	0.	0.	0.	0.	10.	7.	10.	18.
SUBTOTAL	\$/1,000	20.	0.	0.	0.	0.	57.	43.	61.	106.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	368.	116.	184.	171.	174.	287.	400.	591.	264.
TOTAL CAPITAL COST	\$/1,000	65.	18.	29.	27.	27.	49.	72.	109.	50.
TOTAL COST	\$/1,000	433.	134.	213.	197.	201.	336.	472.	700.	314.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	3897.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4938.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	3897.80
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	767.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5705.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	798.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1477.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	798.60
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	240.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1717.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	60.	0.	0.	0.	0.	0.	0.	0.	12345.
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
UNIT PRICE 2	\$/1000 BCM	207.00	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	14.	0.	0.	0.	0.	0.	0.	0.	3002.
SUBTOTAL	\$/1,000	74.	0.	0.	0.	0.	0.	0.	0.	15347.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 RWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
HAUL DISTANCE	KM	2.10	0.	0.	0.	0.	0.	0.	0.	1.71
UNIT PRICE 1	\$/1000 BCM*KM	250.80	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	37.	0.	0.	0.	0.	0.	0.	0.	6221.
VOLUME*DISTANCE	1000 BCM*KM	147.00	0.	0.	0.	0.	0.	0.	0.	24805.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	0.	0.	0.	0.	0.	0.	0.	1208.
SUBTOTAL	\$/1,000	44.	0.	0.	0.	0.	0.	0.	0.	7429.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	34.	0.	0.	0.	0.	0.	0.	0.	6951.
VOLUME	1000 BCM	70.00	0.	0.	0.	0.	0.	0.	0.	14500.00
UNIT PRICE 2	\$/1000 BCM	34.60	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	0.	0.	0.	0.	0.	0.	0.	502.
SUBTOTAL	\$/1,000	36.	0.	0.	0.	0.	0.	0.	0.	7453.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	51.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1756.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	51.90
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	359.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2114.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	130.	0.	0.	0.	0.	0.	0.	0.	33688.
TOTAL CAPITAL COST	\$/1,000	24.	0.	0.	0.	0.	0.	0.	0.	6077.
TOTAL COST	\$/1,000	154.	0.	0.	0.	0.	0.	0.	0.	39765.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	33797.00	49600.00	54000.00	56200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1681.	1757.	5120.	7514.	8180.	8513.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	11808.00	11807.00	23615.00	23615.00	23615.00	11808.00	0.	0.	0.
CAPITAL COST	\$/1,000	11808.	11807.	23615.	23615.	23615.	11808.	0.	0.	0.
SUBTOTAL	\$/1,000	11808.	11807.	23615.	25296.	25372.	16928.	7514.	8180.	8513.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	59997.00	82400.00	92900.00	96800.00
DISTANCE	M	0.	0.	0.	8450.00	9700.00	22650.00	23500.00	23620.00	23720.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	539.	647.	7814.	11134.	12617.	13203.
CONV. INCREASE	M	0.	0.	0.	8450.00	1250.00	12950.00	850.00	120.00	100.00
UNIT PRICE 2	\$/M	0.	0.	0.	4925.93	4925.93	4845.54	4845.54	4845.54	4845.54
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	41624.	6157.	62750.	4119.	581.	485.
SUBTOTAL	\$/1,000	0.	0.	0.	42163.	6804.	70564.	15253.	13199.	13687.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	0.	0.	0.	11100.00	11600.00	35097.00	21200.00	56000.00	58200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	58.37	58.37	58.37	58.37	58.37	58.37
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	648.	677.	2049.	2989.	3269.	3397.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	11020.00	11020.00	11020.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	11020.	11020.	11020.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	11020.	11020.	11020.	648.	677.	2049.	2989.	3269.	3397.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00
OPERATING COST	\$/1,000	0.	0.	0.	4974.	4974.	4974.	4974.	4974.	4974.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	9941.00	0.	0.	0.	0.	3949.00
CAPITAL COST	\$/1,000	0.	0.	0.	9941.	0.	0.	0.	0.	3949.
SUBTOTAL	\$/1,000	0.	0.	0.	14915.	4974.	4974.	4974.	4974.	8923.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	7843.	8055.	19956.	26610.	29040.	30087.
TOTAL CAPITAL COST	\$/1,000	22828.	22827.	34635.	75180.	29772.	74558.	4119.	581.	4434.
TOTAL COST	\$/1,000	22828.	22827.	34635.	83023.	37828.	94514.	30729.	29621.	34521.

RHEINBRAUN CONSULTING GMBH

	YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 RWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	57900.00	61500.00	59200.00	60000.00	60100.00	60100.00	60300.00	51100.00	52200.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8771.	9316.	8968.	9089.	9104.	9104.	9134.	7741.	7907.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8771.	9316.	8968.	9089.	9104.	9104.	9134.	7741.	7907.

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	98200.00	102100.00	98200.00	99700.00	99900.00	98400.00	97000.00	87400.00	87300.00
DISTANCE	M	23950.00	23950.00	23950.00	21350.00	16350.00	16550.00	17700.00	19150.00	21000.00
UNIT PRICE 1	\$/1000 BCM*MM	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	13523.	14060.	13523.	12239.	9392.	9364.	9872.	9624.	10541.
CONV. INCREASE	M	230.00	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	4845.54	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	1114.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	14638.	14060.	13523.	12239.	9392.	9364.	9872.	9624.	10541.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	59900.00	63600.00	61100.00	62000.00	62100.00	62000.00	62100.00	52900.00	54000.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	58.37	58.37	58.37	58.37	58.37	58.37	58.37	58.37	58.37
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3496.	3712.	3566.	3619.	3625.	3619.	3625.	3088.	3152.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3496.	3712.	3566.	3619.	3625.	3619.	3625.	3088.	3152.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00
OPERATING COST	\$/1,000	4974.	4974.	4974.	4974.	4974.	4974.	4974.	4974.	4974.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	724.00	0.	0.	3949.00	0.	0.	0.	724.00
CAPITAL COST	\$/1,000	0.	724.	0.	0.	3949.	0.	0.	0.	724.
SUBTOTAL	\$/1,000	4974.	5698.	4974.	4974.	8923.	4974.	4974.	4974.	5698.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	30765.	32063.	31032.	29921.	27095.	27061.	27605.	25426.	26575.
TOTAL CAPITAL COST	\$/1,000	1114.	724.	0.	0.	3949.	0.	0.	0.	724.
TOTAL COST	\$/1,000	31879.	32787.	31032.	29921.	31044.	27061.	27605.	25426.	27299.

RHEINBRAUN CONSULTING GMBH

	YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	57200.00	55400.00	60100.00	58500.00	60300.00	56600.00	59400.00	59300.00	54400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8665.	8392.	9104.	8862.	9134.	8574.	8998.	8983.	8241.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	8665.	8392.	9104.	8862.	9134.	8574.	8998.	8983.	8241.

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	92700.00	95600.00	104400.00	104700.00	104600.00	93800.00	93700.00	97500.00	95000.00
DISTANCE	M	21300.00	19400.00	23320.00	24220.00	27020.00	25220.00	28660.00	33030.00	36280.00
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	11353.	10664.	13999.	14581.	16251.	13602.	15441.	18517.	19818.
CONV. INCREASE	M	0.	0.	0.	270.00	2800.00	0.	1640.00	4370.00	3250.00
UNIT PRICE 2	\$/M	0.	0.	0.	4288.11	4288.11	0.	4288.11	4288.11	4288.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	1158.	12007.	0.	7033.	18739.	13936.
SUBTOTAL	\$/1,000	11353.	10664.	13999.	15739.	28258.	13602.	22474.	37256.	33754.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	58900.00	57400.00	62300.00	60700.00	62500.00	58500.00	61100.00	61200.00	56400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	58.37	58.37	58.37	58.37	58.37	58.37	58.37	58.37	58.37
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3438.	3350.	3636.	3543.	3648.	3415.	3566.	3572.	3292.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3438.	3350.	3636.	3543.	3648.	3415.	3566.	3572.	3292.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00	4974.00
OPERATING COST	\$/1,000	4974.	4974.	4974.	4974.	4974.	4974.	4974.	4974.	4974.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5465.00	0.	0.	0.	0.	3949.00	724.00	0.	0.
CAPITAL COST	\$/1,000	5465.	0.	0.	0.	0.	3949.	724.	0.	0.
SUBTOTAL	\$/1,000	10439.	4974.	4974.	4974.	4974.	8923.	5698.	4974.	4974.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	28430.	27381.	31714.	31960.	34008.	30565.	32980.	36047.	36325.
TOTAL CAPITAL COST	\$/1,000	5465.	0.	0.	1158.	12007.	3949.	7757.	18739.	13936.
TOTAL COST	\$/1,000	33895.	27381.	31714.	33118.	46014.	34514.	40736.	54786.	50261.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	51900.00	46900.00	21500.00	0.	0.	0.	0.	0.	1380197.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	151.48	151.48	151.48	0.	0.	0.	0.	0.	151.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7862.	7105.	3257.	0.	0.	0.	0.	0.	209076.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	106268.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	106268.00
SUBTOTAL	\$/1,000	7862.	7105.	3257.	0.	0.	0.	0.	0.	315344.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY No.2 ENHANCED LEVEL (3 RWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	93800.00	88900.00	40800.00	0.	0.	0.	0.	0.	2328497.00
DISTANCE	M	38430.00	38430.00	38430.00	0.	0.	0.	0.	0.	24775.04
UNIT PRICE 1	\$/1000 BCM*M	0.01	0.01	0.01	0.	0.	0.	0.	0.	0.01
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	20727.	19644.	9016.	0.	0.	0.	0.	0.	331709.
CONV. INCREASE	M	2150.00	0.	0.	0.	0.	0.	0.	0.	38430.00
UNIT PRICE 2	\$/M	4288.11	0.	0.	0.	0.	0.	0.	0.	4655.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	9219.	0.	0.	0.	0.	0.	0.	0.	178922.
SUBTOTAL	\$/1,000	29947.	19644.	9016.	0.	0.	0.	0.	0.	510632.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	53900.00	49000.00	22500.00	0.	0.	0.	0.	0.	1427297.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	58.37	58.37	58.37	0.	0.	0.	0.	0.	58.37
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3146.	2860.	1313.	0.	0.	0.	0.	0.	83311.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	33060.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	33060.
SUBTOTAL	\$/1,000	3146.	2860.	1313.	0.	0.	0.	0.	0.	116371.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4974.00	4974.00	2984.40	0.	0.	0.	0.	0.	132308.40
OPERATING COST	\$/1,000	4974.	4974.	2984.	0.	0.	0.	0.	0.	132308.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	29425.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	29425.
SUBTOTAL	\$/1,000	4974.	4974.	2984.	0.	0.	0.	0.	0.	161733.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	36709.	34583.	16570.	0.	0.	0.	0.	0.	756406.
TOTAL CAPITAL COST	\$/1,000	9219.	0.	0.	0.	0.	0.	0.	0.	347675.
TOTAL COST	\$/1,000	45929.	34583.	16570.	0.	0.	0.	0.	0.	1104081.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR		-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OR DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 23 24 25 26 27 28 29 30 TOTALS

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	380.60	380.60	380.60	380.60	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	2628.92	2628.92	2628.92	2628.92	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	1001.	1001.	1001.	1001.	
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	
ADDITIONAL COST	\$/1,000	0.	0.	3445.37	3445.37	3445.37	0.	0.	0.	0.	
CAPITAL COST	\$/1,000	0.	0.	3445.	3445.	3445.	0.	0.	0.	0.	
SUBTOTAL	\$/1,000	0.	0.	3445.	3445.	3445.	1001.	1001.	1001.	1001.	

YEAR -5 -4 -3 -2 -1 1 2 3 4

5.10 PREPARED SOIL MANUFACTURE

VOLUME	1000 BCM	0.	0.	0.	0.	0.	1141.80	1141.80	1141.80	1141.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	1454.48	1454.48	1454.48	1454.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	1661.	1661.	1661.	1661.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	5133.00	5135.00	20075.00	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	5133.	5135.	20075.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	5133.	5135.	21736.	1661.	1661.	1661.

5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	1141.80	1141.80	1141.80	1141.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	491.	491.	491.	491.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	1141.80	1141.80	1141.80	1141.80
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	131.	131.	131.	131.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	622.	622.	622.	622.

5.12 PREPARED SOIL TRANSPORT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	1141.80	1141.80	1141.80	1141.80
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	2.00	1.80	1.60	1.10
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	485.	437.	388.	267.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	2283.60	2055.20	1826.90	1256.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	55.44	61.06	68.07	96.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	127.	125.	124.	122.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	612.	562.	512.	388.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	1141.80	1141.80	1141.80	1141.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	172.	172.	172.	172.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	1141.80	1141.80	1141.80	1141.80
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	28.	28.	28.	28.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	200.	200.	200.	200.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	6.85	6.85	6.85	6.85
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	232.	232.	232.	232.
LENGTH	KM	0.	0.	0.	0.	0.	6.85	6.85	6.85	6.85
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	47.	47.	47.	47.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	279.	279.	279.	279.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	0.	0.	0.	0.	0.	114.20	114.20	114.20	114.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	57.95	114.54	171.81	229.09
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	146.	202.	260.	317.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	146.	202.	260.	317.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	4187.	4195.	4204.	4140.
TOTAL CAPITAL COST	\$/1,000	0.	0.	3445.	8578.	8580.	20408.	332.	331.	328.
TOTAL COST	\$/1,000	0.	0.	3445.	8578.	8580.	24595.	4527.	4535.	4468.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

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5.7 OVERBURDEN REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING

VOLUME	1000 BCM	380.60	380.60	380.60	380.60	380.60	380.60	380.60	380.60	380.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.

	YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1141.80	1141.80	1141.80	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.
5.11 PREPARED SOIL LOADING, F.F.L. TRUCKS										
VOLUME	1000 BCM	1141.80	1141.80	1141.80	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	491.	491.	491.	491.	491.	491.	491.	491.	491.
VOLUME	1000 BCM	1141.80	1141.80	1141.80	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	131.	131.	131.	131.	131.	131.	131.	131.	131.
SUBTOTAL	\$/1,000	622.	622.	622.	622.	622.	622.	622.	622.	622.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	1141.80	1141.80	1141.80	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
HAUL DISTANCE	KM	1.10	0.90	0.90	0.80	0.80	1.10	1.20	1.40	1.30
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	267.	218.	218.	194.	194.	267.	291.	339.	315.
VOLUME*DISTANCE	1000 BCM*KM	1256.00	1027.60	1027.60	913.40	913.40	1255.90	1370.00	1598.40	1484.20
UNIT PRICE 2	\$/1000 BCM*KM	96.80	117.22	117.22	131.26	131.26	96.80	89.31	77.10	82.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	122.	120.	120.	120.	120.	122.	122.	123.	123.
SUBTOTAL	\$/1,000	388.	339.	339.	314.	314.	388.	413.	463.	438.

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5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	1141.80	1141.80	1141.80	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	172.	172.	172.	172.	172.	172.	172.	172.	172.
VOLUME	1000 BCM	1141.80	1141.80	1141.80	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	28.	28.	28.	28.	28.	28.	28.	28.	28.
SUBTOTAL	\$/1,000	200.	200.	200.	200.	200.	200.	200.	200.	200.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	232.	232.	232.	232.	232.	232.	232.	232.	232.
LENGTH	KM	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	47.	47.	47.	47.	47.	47.	47.	47.	47.
SUBTOTAL	\$/1,000	279.	279.	279.	279.	279.	279.	279.	279.	279.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	114.20	114.20	114.20	114.20	114.20	114.20	114.20	114.20	114.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	286.36	343.63	400.89	458.17	515.44	572.71	629.98	687.26	744.53
OPERATING COST	\$/1,000	374.	431.	489.	546.	603.	660.	718.	775.	832.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	374.	431.	489.	546.	603.	660.	718.	775.	832.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	4197.	4206.	4263.	4296.	4353.	4483.	4565.	4670.	4703.
TOTAL CAPITAL COST	\$/1,000	328.	327.	327.	327.	328.	328.	329.	330.	329.
TOTAL COST	\$/1,000	4525.	4533.	4590.	4622.	4680.	4811.	4894.	5000.	5033.

		YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	380.60	380.60	380.60	380.60	380.60	380.60	380.60	380.60	380.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.	1001.

	YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.	1661.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	491.	491.	491.	491.	491.	491.	491.	491.	491.
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	131.	131.	131.	131.	131.	131.	131.	131.	131.
SUBTOTAL	\$/1,000	622.	622.	622.	622.	622.	622.	622.	622.	622.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
HAUL DISTANCE	KM	1.50	0.90	0.90	0.80	0.80	0.90	0.80	1.00	0.40
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	364.	218.	218.	194.	194.	218.	194.	242.	97.
VOLUME*DISTANCE	1000 BCM*KM	1712.60	1027.50	1027.50	913.40	913.40	1027.50	913.40	1141.70	456.70
UNIT PRICE 2	\$/1000 BCM*KM	72.29	117.22	117.22	131.26	131.26	117.22	131.26	105.99	257.59
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	124.	120.	120.	120.	120.	120.	120.	121.	118.
SUBTOTAL	\$/1,000	488.	339.	339.	314.	314.	339.	314.	364.	215.

	YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	172.	172.	172.	172.	172.	172.	172.	172.	172.
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	28.	28.	28.	28.	28.	28.	28.	28.	28.
SUBTOTAL	\$/1,000	200.	200.	200.	200.	200.	200.	200.	200.	200.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	232.	232.	232.	232.	232.	232.	232.	232.	232.
LENGTH	KM	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	47.	47.	47.	47.	47.	47.	47.	47.	47.
SUBTOTAL	\$/1,000	279.	279.	279.	279.	279.	279.	279.	279.	279.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	114.20	114.20	114.20	114.20	114.20	114.20	114.20	114.20	114.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	801.80	859.07	916.34	973.61	1030.88	1088.16	1145.43	1202.70	1259.92
OPERATING COST	\$/1,000	890.	947.	1004.	1061.	1119.	1176.	1233.	1290.	1348.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	890.	947.	1004.	1061.	1119.	1176.	1233.	1290.	1348.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	4809.	4721.	4778.	4811.	4868.	4950.	4983.	5089.	5000.
TOTAL CAPITAL COST	\$/1,000	331.	327.	327.	327.	327.	327.	327.	328.	324.
TOTAL COST	\$/1,000	5140.	5048.	5105.	5138.	5195.	5277.	5310.	5416.	5325.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY No.2 ENHANCED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERRURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	761.20	761.10	761.10	761.10	0.	3044.50
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	377.35	377.35	377.35	377.35	0.	377.35
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	287.	287.	287.	287.	0.	1149.
VOLUME	1000 BCM	0.	0.	0.	761.20	761.10	761.10	761.10	0.	3044.50
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	42.35	42.35	42.35	42.35	0.	42.35
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	32.	32.	32.	32.	0.	129.
SUBTOTAL	\$/1,000	0.	0.	0.	319.	319.	319.	319.	0.	1278.
5.6 OVERRURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MIMING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	380.50	380.50	380.50	380.50	380.50	380.50	380.50	0.	11036.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	2628.92	0.	2628.92
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	1000.	1000.	1000.	1000.	1000.	1000.	1000.	0.	29015.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	10336.11
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	10336.
SUBTOTAL	\$/1000	1000.	1000.	1000.	1000.	1000.	1000.	1000.	0.	39351.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	0.	33110.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	1454.48	0.	1454.48
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1661.	1661.	1661.	1661.	1661.	1661.	1661.	0.	48158.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	30343.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	30343.
SUBTOTAL	\$/1,000	1661.	1661.	1661.	1661.	1661.	1661.	1661.	0.	78501.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	0.	33110.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	0.	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	491.	491.	491.	491.	491.	491.	491.	0.	14241.
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	0.	33110.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	0.	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	131.	131.	131.	131.	131.	131.	131.	0.	3809.
SUBTOTAL	\$/1,000	622.	622.	622.	622.	622.	622.	622.	0.	18050.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	0.	33110.00
HAUL DISTANCE	KM	0.40	0.30	2.20	2.20	0.80	1.20	0.70	0.	1.10
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	0.	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	97.	73.	533.	533.	194.	291.	170.	0.	7712.
VOLUME*DISTANCE	1000 BCM*KM	456.70	342.50	2511.70	2511.70	913.40	1370.00	799.20	0.	36307.10
UNIT PRICE 2	\$/1000 BCM*KM	257.59	341.83	50.85	50.85	131.26	89.31	149.32	0.	97.10
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	118.	117.	128.	128.	120.	122.	119.	0.	3525.
SUBTOTAL	\$/1,000	215.	190.	661.	661.	314.	413.	289.	0.	11237.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	0.	33110.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	0.	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	172.	172.	172.	172.	172.	172.	172.	0.	4985.
VOLUME	1000 BCM	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	1141.70	0.	33110.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	0.	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	28.	28.	28.	28.	28.	28.	28.	0.	812.
SUBTOTAL	\$/1,000	200.	200.	200.	200.	200.	200.	200.	0.	5797.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	6.85	6.85	6.85	6.85	6.85	6.85	6.85	0.	198.65
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	232.	232.	232.	232.	232.	232.	232.	0.	6719.
LENGTH	KM	6.85	6.85	6.85	6.85	6.85	6.85	6.85	0.	198.65
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	47.	47.	47.	47.	47.	47.	47.	0.	1374.
SUBTOTAL	\$/1,000	279.	279.	279.	279.	279.	279.	279.	0.	8093.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	114.10	114.10	114.10	114.10	114.10	114.10	114.10	0.	3311.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	0.	768.05
ADDITIONAL COST	\$/1,000	1317.14	1374.36	1431.58	1488.80	1546.02	1603.25	1660.47	0.	24911.89
OPERATING COST	\$/1,000	1405.	1462.	1519.	1576.	1634.	1691.	1748.	0.	27455.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1405.	1462.	1519.	1576.	1634.	1691.	1748.	0.	27455.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	5057.	5090.	5608.	5953.	5670.	5825.	5761.	0.	139434.
TOTAL CAPITAL COST	\$/1,000	324.	324.	334.	367.	359.	361.	358.	0.	50328.
TOTAL COST	\$/1,000	5382.	5414.	5943.	6319.	6029.	6186.	6119.	0.	189762.

YEAR -5 -4 -3 -2 -1 1 2 3 4

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	4.00	8.00	20.00	39.00	59.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	118.	237.	592.	1155.	1747.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	4.00	7.00	19.00	37.00	56.00	74.00	74.00	74.00	74.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	120.	210.	571.	1112.	1684.	2225.	2225.	2225.	2225.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	120.	210.	571.	1112.	1684.	2225.	2225.	2225.	2225.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/PERSON	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.
TOTAL CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.

YEAR 5 6 7 8 9 10 11 12 13

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.

6.3 MINING

NO. OF PERSONS	PERSONS	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.	2309.
6.3 MINING										
NO. OF PERSONS	PERSONS	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.	2225.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	78.00	78.00	78.00	18.00	18.00	18.00	18.00	18.00	2170.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00	29605.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2309.	2309.	2309.	533.	533.	533.	533.	533.	64243.
6.3 MINING										
NO. OF PERSONS	PERSONS	74.00	74.00	74.00	7.00	7.00	7.00	7.00	7.00	2008.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2225.	2225.	2225.	210.	210.	210.	210.	210.	60371.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2225.	2225.	2225.	210.	210.	210.	210.	210.	60371.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 BWE)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	1021.	1082.	1140.	1140.	1140.	1140.
CAPITAL COST	\$*1,000	0.	9049.	10835.	0.	1785.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	9049.	10835.	1021.	2867.	1140.	1140.	1140.	1140.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	3501.	1147.	2316.	1777.	3488.	3283.	2589.	479.	153.
CAPITAL COST	\$*1,000	620.	208.	417.	315.	635.	603.	475.	87.	26.
SUBTOTAL	\$*1,000	4121.	1355.	2733.	2093.	4123.	3885.	3065.	566.	179.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	7843.	8055.	19956.	26610.	29040.	30087.
CAPITAL COST	\$*1,000	22828.	22827.	34635.	75180.	29772.	74558.	4119.	581.	4434.
SUBTOTAL	\$*1,000	22828.	22827.	34635.	83023.	37828.	94514.	30729.	29621.	34521.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	4187.	4195.	4204.	4140.
CAPITAL COST	\$*1,000	0.	0.	3445.	8578.	8580.	20408.	332.	331.	328.
SUBTOTAL	\$*1,000	0.	0.	3445.	8578.	8580.	24595.	4527.	4535.	4468.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	359.	717.	1823.	3556.	5378.	7111.	7111.	7111.	7111.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	3860.	1864.	4139.	14196.	18004.	35677.	41646.	41974.	42631.
TOTAL CAPITAL COST	\$*1,000	23448.	32084.	49332.	84074.	40773.	95569.	4926.	999.	4788.
TOTAL COST	\$*1,000	27308.	33948.	53471.	98270.	58777.	131246.	46572.	42974.	47419.

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	132.	233.	539.	748.	1388.	2198.	1058.	3843.	2131.
CAPITAL COST	\$*1,000	21.	36.	92.	129.	249.	398.	192.	714.	390.
SUBTOTAL	\$*1,000	153.	269.	631.	877.	1637.	2597.	1250.	4557.	2522.

COST CENTRE 3: OVERBURDEN, REJECT & OIL SANDS HANDLING

OPERATING COST	\$*1,000	30765.	32063.	31032.	29921.	27095.	27061.	27605.	25426.	26575.
CAPITAL COST	\$*1,000	1114.	724.	0.	0.	3949.	0.	0.	0.	724.
SUBTOTAL	\$*1,000	31879.	32787.	31032.	29921.	31044.	27061.	27605.	25426.	27299.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	4197.	4206.	4263.	4296.	4353.	4483.	4565.	4670.	4703.
CAPITAL COST	\$*1,000	328.	327.	327.	327.	327.	328.	329.	330.	329.
SUBTOTAL	\$*1,000	4525.	4533.	4590.	4622.	4680.	4811.	4894.	5000.	5033.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	43345.	44753.	44084.	43216.	41087.	41994.	41479.	42191.	41661.
TOTAL CAPITAL COST	\$*1,000	1463.	1088.	419.	456.	4525.	727.	521.	1044.	1444.
TOTAL COST	\$*1,000	44808.	45841.	44504.	43672.	45612.	42720.	42000.	43235.	43105.

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.	1140.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	368.	116.	184.	171.	174.	287.	400.	591.	264.
CAPITAL COST	\$*1,000	65.	18.	29.	27.	27.	49.	72.	109.	50.
SUBTOTAL	\$*1,000	433.	134.	213.	197.	201.	336.	472.	700.	314.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	28430.	27381.	31714.	31960.	34008.	30565.	32980.	36047.	36325.
CAPITAL COST	\$*1,000	5465.	0.	0.	1158.	12007.	3949.	7757.	18739.	13936.
SUBTOTAL	\$*1,000	33895.	27381.	31714.	33118.	46014.	34514.	40736.	54786.	50261.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	4809.	4721.	4778.	4811.	4868.	4950.	4983.	5089.	5000.
CAPITAL COST	\$*1,000	331.	327.	327.	327.	327.	327.	327.	328.	324.
SUBTOTAL	\$*1,000	5140.	5048.	5105.	5138.	5195.	5277.	5310.	5416.	5325.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.	7111.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	41859.	40469.	44927.	45193.	47301.	44054.	46614.	49977.	49840.
TOTAL CAPITAL COST	\$*1,000	5860.	345.	356.	1511.	12360.	4325.	8155.	19176.	14311.
TOTAL COST	\$*1,000	47720.	40815.	45283.	46704.	59662.	48378.	54770.	69153.	64151.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1140.	1140.	779.	43.	43.	43.	43.	43.	30457.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	21669.
SUBTOTAL	\$*1,000	1140.	1140.	779.	43.	43.	43.	43.	43.	52126.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	130.	0.	0.	0.	0.	0.	0.	0.	33688.
CAPITAL COST	\$*1,000	24.	0.	0.	0.	0.	0.	0.	0.	6077.
SUBTOTAL	\$*1,000	154.	0.	0.	0.	0.	0.	0.	0.	39765.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	36709.	34583.	16570.	0.	0.	0.	0.	0.	756406.
CAPITAL COST	\$*1,000	9219.	0.	0.	0.	0.	0.	0.	0.	347675.
SUBTOTAL	\$*1,000	45929.	34583.	16570.	0.	0.	0.	0.	0.	1104081.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	5057.	5090.	5608.	5953.	5670.	5825.	5761.	0.	139434.
CAPITAL COST	\$*1,000	324.	324.	334.	367.	359.	361.	358.	0.	50328.
SUBTOTAL	\$*1,000	5382.	5414.	5943.	6319.	6029.	6186.	6119.	0.	189762.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	7111.	7111.	7111.	1283.	1283.	1283.	1283.	1283.	196032.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	50148.	47925.	30069.	7279.	6996.	7150.	7086.	1326.	1156017.
TOTAL CAPITAL COST	\$*1,000	9568.	324.	334.	367.	359.	361.	358.	0.	425749.
TOTAL COST	\$*1,000	59716.	48249.	30404.	7645.	7355.	7512.	7445.	1326.	1581766.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 RWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$/1,000	0.	0.	0.	697.	672.	644.	585.	532.	483.
CAPITAL COST	\$/1,000	0.	7479.	8140.	0.	1108.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	7479.	8140.	697.	1780.	644.	585.	532.	483.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$/1,000	3183.	948.	1740.	1214.	2166.	1853.	1329.	224.	65.
CAPITAL COST	\$/1,000	564.	172.	313.	215.	394.	340.	244.	40.	11.
SUBTOTAL	\$/1,000	3747.	1120.	2053.	1429.	2560.	2193.	1573.	264.	76.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$/1,000	0.	0.	0.	5357.	5002.	11265.	13655.	13547.	12760.
CAPITAL COST	\$/1,000	20753.	18865.	26022.	51349.	18486.	42086.	2114.	271.	1880.
SUBTOTAL	\$/1,000	20753.	18865.	26022.	56706.	23488.	53351.	15769.	13819.	14640.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	2363.	2153.	1961.	1756.
CAPITAL COST	\$/1,000	0.	0.	2589.	5859.	5328.	11520.	170.	154.	139.
SUBTOTAL	\$/1,000	0.	0.	2589.	5859.	5328.	13883.	2323.	2115.	1895.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$/1,000	326.	593.	1369.	2429.	3340.	4014.	3649.	3318.	3016.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	326.	593.	1369.	2429.	3340.	4014.	3649.	3318.	3016.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	3509.	1541.	3109.	9696.	11179.	20139.	21371.	19581.	18080.
TOTAL CAPITAL COST	\$/1,000	21316.	26515.	37064.	57424.	25317.	53946.	2528.	466.	2031.
TOTAL COST	\$/1,000	24825.	28056.	40173.	67120.	36496.	74085.	23899.	20047.	20110.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY No.2 ENHANCED LEVEL (3 RWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	440.	400.	363.	330.	300.	273.	248.	226.	205.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	440.	400.	363.	330.	300.	273.	248.	226.	205.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	51.	82.	172.	217.	366.	526.	230.	760.	383.
CAPITAL COST	\$*1,000	8.	13.	29.	38.	66.	95.	42.	141.	70.
SUBTOTAL	\$*1,000	59.	94.	201.	254.	431.	622.	272.	901.	454.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	11861.	11238.	9888.	8667.	7135.	6478.	6008.	5030.	4780.
CAPITAL COST	\$*1,000	430.	254.	0.	0.	1040.	0.	0.	0.	130.
SUBTOTAL	\$*1,000	12291.	11492.	9888.	8667.	8175.	6478.	6008.	5030.	4910.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	1618.	1474.	1358.	1244.	1146.	1073.	993.	924.	846.
CAPITAL COST	\$*1,000	127.	115.	104.	95.	86.	79.	72.	65.	59.
SUBTOTAL	\$*1,000	1745.	1589.	1463.	1339.	1232.	1152.	1065.	989.	905.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	2742.	2493.	2266.	2060.	1873.	1702.	1548.	1407.	1279.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2742.	2493.	2266.	2060.	1873.	1702.	1548.	1407.	1279.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	16711.	15686.	14047.	12518.	10820.	10053.	9027.	8347.	7493.
TOTAL CAPITAL COST	\$*1,000	564.	381.	134.	132.	1191.	174.	113.	207.	260.
TOTAL COST	\$*1,000	17276.	16067.	14180.	12650.	12011.	10227.	9140.	8554.	7753.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. -- RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST \$*1,000	186.	169.	154.	140.	127.	116.	105.	96.	87.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	186.	169.	154.	140.	127.	116.	105.	96.	87.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST \$*1,000	60.	17.	25.	21.	19.	29.	37.	50.	20.
CAPITAL COST \$*1,000	11.	3.	4.	3.	3.	5.	7.	9.	4.
SUBTOTAL \$*1,000	71.	20.	29.	24.	22.	34.	44.	59.	24.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST \$*1,000	4649.	4070.	4285.	3926.	3798.	3103.	3044.	3025.	2771.
CAPITAL COST \$*1,000	894.	0.	0.	142.	1341.	401.	716.	1572.	1063.
SUBTOTAL \$*1,000	5542.	4070.	4285.	4068.	5139.	3504.	3760.	4597.	3834.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST \$*1,000	786.	702.	646.	591.	544.	503.	460.	427.	381.
CAPITAL COST \$*1,000	54.	49.	44.	40.	36.	33.	30.	27.	25.
SUBTOTAL \$*1,000	840.	750.	690.	631.	580.	536.	490.	454.	406.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST \$*1,000	1163.	1057.	961.	874.	794.	722.	656.	597.	542.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	1163.	1057.	961.	874.	794.	722.	656.	597.	542.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	6844.	6016.	6071.	5552.	5283.	4473.	4302.	4193.	3802.
TOTAL CAPITAL COST \$*1,000	958.	51.	48.	186.	1380.	439.	753.	1609.	1092.
TOTAL COST \$*1,000	7803.	6067.	6119.	5737.	6663.	4912.	5055.	5802.	4893.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.2 ENHANCED LEVEL (3 RWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	79.	72.	45.	2.	2.	2.	2.	2.	7783.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	16727.
SUBTOTAL	\$*1,000	79.	72.	45.	2.	2.	2.	2.	2.	24510.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	9.	0.	0.	0.	0.	0.	0.	0.	15795.
CAPITAL COST	\$*1,000	2.	0.	0.	0.	0.	0.	0.	0.	28454.
SUBTOTAL	\$*1,000	11.	0.	0.	0.	0.	0.	0.	0.	18640.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	2546.	2180.	950.	0.	0.	0.	0.	0.	171016.
CAPITAL COST	\$*1,000	639.	0.	0.	0.	0.	0.	0.	0.	190448.
SUBTOTAL	\$*1,000	3185.	2180.	950.	0.	0.	0.	0.	0.	361464.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	351.	321.	321.	310.	269.	251.	225.	0.	25997.
CAPITAL COST	\$*1,000	22.	20.	19.	19.	17.	16.	14.	0.	27027.
SUBTOTAL	\$*1,000	373.	341.	341.	329.	286.	266.	240.	0.	53024.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	493.	448.	408.	67.	61.	55.	50.	46.	48416.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	493.	448.	408.	67.	61.	55.	50.	46.	48416.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	3477.	3021.	1723.	379.	331.	308.	277.	47.	269007.
TOTAL CAPITAL COST	\$*1,000	663.	20.	19.	19.	17.	16.	14.	0.	237047.
TOTAL COST	\$*1,000	4141.	3042.	1742.	398.	348.	323.	291.	47.	506054.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

8.0

60,000 BPCD

Dragline Mine

Minimum Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	656.00	656.00	656.00	656.00	656.00	656.00
OPERATING COST \$*1,000		0.	0.	0.	656.	656.	656.	656.	656.	656.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	4479.00	4480.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	4479.	4480.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	4479.	4480.	656.	656.	656.	656.	656.	656.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		0.	0.	0.	114.00	172.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	114.	172.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	114.00	0.	114.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1710.	0.	1710.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	1710.	114.	1882.	228.	228.	228.	228.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		0.	0.	0.	770.	828.	884.	884.	884.	884.
TOTAL CAPITAL COST \$*1,000		0.	4479.	6190.	0.	1710.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	4479.	6190.	770.	2538.	884.	884.	884.	884.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		656.00	656.00	656.00	656.00	656.00	656.00	656.00	656.00	656.00
OPERATING COST \$*1,000		656.	656.	656.	656.	656.	656.	656.	656.	656.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	656.	656.	656.	656.	656.	656.	656.	656.	656.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	228.	228.	228.	228.	228.	228.	228.	228.	228.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		884.	884.	884.	884.	884.	884.	884.	884.	884.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		884.	884.	884.	884.	884.	884.	884.	884.	884.

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		656.00	656.00	656.00	656.00	656.00	656.00	656.00	656.00	656.00
OPERATING COST \$*1,000		656.	656.	656.	656.	656.	656.	656.	656.	656.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	656.	656.	656.	656.	656.	656.	656.	656.	656.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	228.	228.	228.	228.	228.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		884.	884.	884.	884.	884.	884.	884.	884.	884.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		884.	884.	884.	884.	884.	884.	884.	884.	884.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		656.00	656.00	656.00	0.	0.	0.	0.	0.	17712.00
OPERATING COST \$*1,000		656.	656.	656.	0.	0.	0.	0.	0.	17712.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8959.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8959.
SUBTOTAL	\$*1,000	656.	656.	656.	0.	0.	0.	0.	0.	26671.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	37.00	37.00	37.00	37.00	37.00	6171.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	37.	37.	37.	37.	37.	6171.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	228.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3420.
SUBTOTAL	\$*1,000	228.	228.	228.	37.	37.	37.	37.	37.	9591.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		884.	884.	884.	37.	37.	37.	37.	37.	23883.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	12379.
TOTAL COST \$*1,000		884.	884.	884.	37.	37.	37.	37.	37.	36262.

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.1 CLEARING

AREA	HECTARES	663.70	703.00	82.60	116.90	98.00	79.90	54.50	54.90	58.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	841.	891.	105.	148.	124.	101.	69.	70.	74.
AREA	HECTARES	663.70	703.00	82.60	116.90	98.00	79.90	54.50	54.90	58.60
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	131.	138.	16.	23.	19.	16.	11.	11.	12.
SUBTOTAL	\$/1,000	971.	1029.	121.	171.	143.	117.	80.	80.	86.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	237.	69.	60.	73.	124.	101.	62.	41.	38.
DITCH VOLUME	1000 BCM	128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	38.	11.	10.	12.	20.	16.	10.	7.	6.
SUBTOTAL	\$/1,000	276.	80.	70.	85.	144.	118.	73.	48.	45.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	508.	415.	442.	442.	410.	529.	979.	788.	444.
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	124.	101.	107.	107.	100.	129.	238.	191.	108.
SUBTOTAL	\$/1,000	632.	516.	549.	549.	509.	658.	1217.	979.	552.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
HAUL DISTANCE	KM	2.50	1.50	2.35	4.40	3.85	3.45	3.20	3.00	2.95
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	374.	183.	306.	572.	465.	538.	923.	696.	386.
VOLUME*DISTANCE	1000 BCM*KM	1313.10	731.25	1219.10	2282.50	1852.80	2145.50	3680.00	2775.00	1539.50
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	64.	36.	59.	111.	90.	104.	179.	135.	75.
SUBTOTAL	\$/1,000	438.	219.	365.	684.	555.	643.	1102.	831.	461.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	286.	234.	249.	249.	231.	298.	551.	443.	250.
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	17.	18.	18.	17.	22.	40.	32.	18.
SUBTOTAL	\$/1,000	307.	251.	267.	267.	247.	320.	591.	475.	268.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	0.	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	169.	132.	127.	480.	0.	83.	34.	0.	0.
LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	0.	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	35.	27.	26.	98.	0.	17.	7.	0.	0.
SUBTOTAL	\$/1,000	204.	159.	153.	579.	0.	100.	41.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	2416.	1923.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
TOTAL CAPITAL COST	\$/1,000	412.	330.	237.	370.	246.	304.	485.	376.	219.
TOTAL COST	\$/1,000	2828.	2253.	1524.	2334.	1599.	1955.	3103.	2414.	1412.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING										
AREA	HECTARES	56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	72.	72.	222.	73.	66.	53.	52.	51.	58.
AREA	HECTARES	56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	11.	11.	34.	11.	10.	8.	8.	8.	9.
SUBTOTAL	\$/1,000	83.	84.	256.	84.	77.	61.	61.	59.	67.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	41.	40.	44.	43.	40.	37.	25.	20.	7.
DITCH VOLUME	1000 BCM	22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	6.	7.	7.	7.	6.	4.	3.	1.
SUBTOTAL	\$/1,000	48.	46.	51.	50.	47.	42.	30.	23.	9.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	255.	221.	237.	229.	290.	269.	231.	210.	146.
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	62.	54.	58.	56.	71.	65.	56.	51.	36.
SUBTOTAL	\$/1,000	318.	275.	294.	284.	361.	334.	288.	261.	182.

YEAR 5 6 7 8 9 10 11 12 13

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
HAUL DISTANCE	KM	2.80	2.65	2.25	2.70	3.35	3.15	2.95	2.75	2.55
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	211.	172.	157.	182.	286.	249.	201.	170.	110.
VOLUME*DISTANCE	1000 BCM*KM	840.00	687.30	625.80	725.60	1141.10	994.20	802.00	678.90	438.30
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	41.	33.	30.	35.	56.	48.	39.	33.	21.
SUBTOTAL	\$/1,000	252.	206.	187.	217.	342.	298.	240.	203.	131.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	144.	124.	133.	129.	163.	151.	130.	118.	82.
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	10.	9.	10.	9.	12.	11.	9.	9.	6.
SUBTOTAL	\$/1,000	154.	133.	143.	138.	175.	162.	140.	127.	88.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	33825.11	33825.11	33825.11	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10.	0.	22.	39.	518.	79.	0.	0.	0.
LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	6915.90	6915.90	6915.90	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	0.	4.	8.	106.	16.	0.	0.	0.
SUBTOTAL	\$/1,000	12.	0.	26.	47.	623.	96.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
TOTAL CAPITAL COST	\$/1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
TOTAL COST	\$/1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.

	YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING										
AREA	HECTARES	37.40	35.50	39.90	42.40	36.70	94.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	47.	45.	51.	54.	46.	119.	0.	0.	0.
AREA	HECTARES	37.40	35.50	39.90	42.40	36.70	94.00	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	7.	7.	8.	8.	7.	19.	0.	0.	0.
SUBTOTAL	\$*1,000	55.	52.	58.	62.	54.	138.	0.	0.	0.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	12.	11.	15.	22.	30.	30.	46.	0.	0.
DITCH VOLUME	1000 BCM	6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	2.	2.	3.	4.	5.	5.	7.	0.	0.
SUBTOTAL	\$*1,000	14.	13.	18.	26.	35.	35.	53.	0.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	114.	43.	69.	69.	114.	165.	231.	242.	349.
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	28.	10.	17.	17.	28.	40.	56.	59.	85.
SUBTOTAL	\$*1,000	142.	53.	86.	86.	142.	205.	288.	301.	433.

YEAR 14 15 16 17 18 19 20 21 22

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
HAUL DISTANCE	KM	2.40	2.30	2.20	2.05	1.75	1.65	1.50	1.30	2.30
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	83.	29.	45.	42.	59.	80.	102.	93.	236.
VOLUME*DISTANCE	1000 BCM*KM	329.20	115.00	178.75	166.60	235.20	319.70	407.80	369.70	941.60
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	6.	9.	8.	11.	16.	20.	18.	46.
SUBTOTAL	\$/1,000	99.	34.	54.	50.	70.	96.	122.	111.	282.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	64.	24.	39.	39.	64.	93.	130.	136.	196.
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5.	2.	3.	3.	5.	7.	9.	10.	14.
SUBTOTAL	\$/1,000	69.	26.	42.	42.	69.	100.	140.	146.	210.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	321.	152.	219.	226.	314.	487.	510.	471.	781.
TOTAL CAPITAL COST	\$/1,000	58.	26.	39.	40.	56.	86.	93.	87.	145.
TOTAL COST	\$/1,000	379.	178.	258.	265.	370.	573.	603.	558.	926.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	2766.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	3504.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	2766.10
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	545.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4049.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	686.45
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1270.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	686.45
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	206.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1476.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8442.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2053.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	10495.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	2.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	6951.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	27535.50
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1341.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8292.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4754.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	343.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5097.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1693.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	346.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2039.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	26614.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4833.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	31447.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	8900.00	8900.00	8900.00	8900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	177.33	177.33	177.33	177.33	177.33	177.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1144.	1578.	1578.	1578.	1578.	1578.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6018.00	6018.00	6019.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6018.	6018.	6019.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	6018.	6018.	6019.	1144.	1578.	1578.	1578.	1578.	1578.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	10913.00	19404.00	19751.00	20373.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	210.91	210.91	210.91	210.91
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	2302.	4092.	4166.	4297.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	28051.00	28051.00	28050.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	28051.	28051.	28050.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	28051.	28051.	28050.	2302.	4092.	4166.	4297.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-3	-4	-3	-2	-1	1	2	3	4
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	21140.00	30572.00	30919.00	31418.00
DISTANCE	M	0.	0.	0.	6000.00	9150.00	12720.00	17700.00	17700.00	17700.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	693.	1458.	4813.	9686.	9796.	9954.
CONV. INCREASE	M	0.	0.	0.	6000.00	3150.00	3570.00	4980.00	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	2941.29	2941.29	2941.29	2941.29	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	17648.	9265.	10500.	14648.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	18340.	10723.	15313.	24333.	9796.	9954.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	10227.00	11168.00	11168.00	11045.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	117.97	117.97	117.97	117.97	117.97	117.97
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	761.	1050.	1206.	1317.	1317.	1303.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3829.00	3829.00	3830.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3829.	3829.	3830.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3829.	3829.	3830.	761.	1050.	1206.	1317.	1317.	1303.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00
OPERATING COST	\$/1,000	0.	0.	0.	3843.	3843.	3843.	3843.	3843.	3843.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	7112.00	0.	0.	0.	0.	2877.00
CAPITAL COST	\$/1,000	0.	0.	0.	7112.	0.	0.	0.	0.	2877.
SUBTOTAL	\$/1,000	0.	0.	0.	10955.	3843.	3843.	3843.	3843.	6720.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	6440.	7929.	13742.	20517.	20700.	20975.
TOTAL CAPITAL COST	\$/1,000	9847.	9847.	37900.	52811.	37315.	10500.	14648.	0.	2877.
TOTAL COST	\$/1,000	9847.	9847.	37900.	59251.	45244.	24243.	35164.	20700.	23852.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	20698.00	20698.00	19317.00	18564.00	18530.00	18445.00	18434.00	18707.00	19549.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4365.	4365.	4074.	3915.	3908.	3890.	3888.	3945.	4123.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4365.	4365.	4074.	3915.	3908.	3890.	3888.	3945.	4123.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	31714.00	31714.00	29909.00	29145.00	28920.00	28585.00	28574.00	28568.00	29110.00
DISTANCE	M	17700.00	16600.00	16550.00	16550.00	15390.00	14290.00	14270.00	14160.00	16520.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10047.	9423.	8860.	8634.	7966.	7311.	7298.	7241.	8608.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10047.	9423.	8860.	8634.	7966.	7311.	7298.	7241.	8608.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	11016.00	11016.00	10592.00	10581.00	10390.00	10140.00	10140.00	9861.00	9561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1300.	1300.	1250.	1248.	1226.	1196.	1196.	1163.	1128.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1300.	1300.	1250.	1248.	1226.	1196.	1196.	1163.	1128.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00
OPERATING COST	\$/1,000	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	723.00	0.	0.	2877.00	0.	0.	0.	723.00
CAPITAL COST	\$/1,000	0.	723.	0.	0.	2877.	0.	0.	0.	723.
SUBTOTAL	\$/1,000	3843.	4566.	3843.	3843.	6720.	3843.	3843.	3843.	4566.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	21134.	20509.	19605.	19218.	18522.	17819.	17804.	17771.	19280.
TOTAL CAPITAL COST	\$/1,000	0.	723.	0.	0.	2877.	0.	0.	0.	723.
TOTAL COST	\$/1,000	21134.	21232.	19605.	19218.	21399.	17819.	17804.	17771.	20003.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	19656.00	19533.00	19502.00	19309.00	18860.00	18839.00	18606.00	18388.00	18386.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4146.	4120.	4113.	4072.	3978.	3973.	3924.	3878.	3878.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4146.	4120.	4113.	4072.	3978.	3973.	3924.	3878.	3878.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	29188.00	28804.00	28773.00	28709.00	28321.00	28300.00	28101.00	27886.00	27983.00
DISTANCE	M	16520.00	16520.00	16520.00	16520.00	16520.00	17120.00	17120.00	17970.00	17970.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8631.	8517.	8508.	8489.	8374.	8672.	8611.	8969.	9001.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	270.00	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	2941.29	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	794.	0.
SUBTOTAL	\$/1,000	8631.	8517.	8508.	8489.	8374.	8672.	8611.	9764.	9001.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	9532.00	9271.00	9271.00	9400.00	9461.00	9461.00	9495.00	9498.00	9597.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1124.	1094.	1094.	1109.	1116.	1116.	1120.	1120.	1132.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1124.	1094.	1094.	1109.	1116.	1116.	1120.	1120.	1132.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00
OPERATING COST	\$/1,000	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3889.00	0.	0.	0.	0.	2877.00	723.00	0.	0.
CAPITAL COST	\$/1,000	3889.	0.	0.	0.	0.	2877.	723.	0.	0.
SUBTOTAL	\$/1,000	7732.	3843.	3843.	3843.	3843.	6720.	4566.	3843.	3843.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	19322.	19152.	19136.	19092.	18889.	19183.	19077.	19389.	19432.
TOTAL CAPITAL COST	\$/1,000	3889.	0.	0.	0.	0.	2877.	723.	794.	0.
TOTAL COST	\$/1,000	23211.	19152.	19136.	19092.	18889.	22060.	19800.	20183.	19432.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		8900.00	8900.00	965.00	0.	0.	0.	0.	0.	229915.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		177.33	177.33	177.33	0.	0.	0.	0.	0.	177.34
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		1578.	1578.	171.	0.	0.	0.	0.	0.	40772.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	18055.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	18055.
SUBTOTAL	\$/1,000		1578.	1578.	171.	0.	0.	0.	0.	0.	58827.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		18360.00	18335.00	15222.00	0.	0.	0.	0.	0.	466379.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		210.91	210.91	210.91	0.	0.	0.	0.	0.	210.91
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		3872.	3867.	3210.	0.	0.	0.	0.	0.	98363.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	84152.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	84152.
SUBTOTAL	\$/1,000		3872.	3867.	3210.	0.	0.	0.	0.	0.	182515.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBUDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	28252.00	28227.00	16842.00	0.	0.	0.	0.	0.	725024.00
DISTANCE	M	17970.00	17970.00	13630.00	0.	0.	0.	0.	0.	16323.48
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.	0.	0.	0.	0.	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9087.	9079.	4109.	0.	0.	0.	0.	0.	211833.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	17970.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	2941.29
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	52855.
SUBTOTAL	\$/1,000	9087.	9079.	4109.	0.	0.	0.	0.	0.	264688.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	9892.00	9892.00	1620.00	0.	0.	0.	0.	0.	258645.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	117.97	117.97	117.97	0.	0.	0.	0.	0.	117.97
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1167.	1167.	191.	0.	0.	0.	0.	0.	30512.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	11488.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	11488.
SUBTOTAL	\$/1,000	1167.	1167.	191.	0.	0.	0.	0.	0.	42000.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3843.00	3843.00	3843.00	0.	0.	0.	0.	0.	103761.00
OPERATING COST	\$/1,000	3843.	3843.	3843.	0.	0.	0.	0.	0.	103761.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	21801.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	21801.
SUBTOTAL	\$/1,000	3843.	3843.	3843.	0.	0.	0.	0.	0.	125562.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	19548.	19534.	11525.	0.	0.	0.	0.	0.	485241.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	188351.
TOTAL COST	\$/1,000	19548.	19534.	11525.	0.	0.	0.	0.	0.	673592.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM	0.	73.60	16.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	1239.20	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	91.	20.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	73.60	16.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	300.95	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	22.	5.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	113.	25.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES	33.40	0.	614.50	580.20	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	0.	1266.82	1266.82	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	42.	0.	778.	735.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	33.40	0.	614.50	580.20	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	0.	196.85	196.85	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	0.	121.	114.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	49.	0.	899.	849.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM	0.	0.	0.	2182.00	2182.00	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	4255.	4255.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	4255.	4255.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	24766.00	44035.00	44823.00	46234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	79.30	47.42	47.94	67.58
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	1964.	2088.	2149.	3124.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	4116.00	4116.00	4117.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	4116.	4116.	4117.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	4116.	4116.	4117.	1964.	2088.	2149.	3124.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	5600.00	3600.00	3400.00	3600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	692.	445.	420.	445.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	2152.50	3923.00	3922.88	1667.38
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	2153.	3923.	3923.	1667.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	2844.	4368.	4343.	2112.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	5640.00	16386.00	16944.00	17384.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	383.	1112.	1150.	1180.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	383.	1112.	1150.	1180.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	814.00	814.00	
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	814.	814.	
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	1950.00	1949.00	1949.00	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	1950.	1949.	1949.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	1950.	1949.	1949.	814.	814.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	6.50	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	2500.00	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	52.50	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	215.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	215.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	566.00	1007.00	1025.00	1057.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1313.36	1313.36	1410.27	1410.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	743.	1323.	1446.	1491.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	566.00	1007.00	1025.00	1057.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	204.00	204.00	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	115.	205.	233.	240.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	859.	1528.	1678.	1731.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	33825.11	0.	33825.11	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	34.	0.	129.	0.	0.
LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	6915.90	0.	6915.90	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	7.	0.	26.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	41.	0.	155.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		42.	91.	798.	4990.	4289.	3782.	5096.	5979.	7054.
TOTAL CAPITAL COST \$*1,000		7.	22.	4242.	4230.	6074.	4217.	6319.	4156.	1908.
TOTAL COST \$*1,000		49.	113.	5040.	9220.	10363.	7999.	11415.	10134.	8962.

		YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	14624.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	753.07
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	11013.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	14624.00
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	174.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	2550.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	13563.

YEAR 5 6 7 8 9 10 11 12 13

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	46972.00	46972.00	43838.00	42129.00	42052.00	41859.00	41834.00	42454.00	44365.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.58	67.58	67.58	67.58	67.58	67.58	67.58	67.58	67.58
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3174.	3174.	2963.	2847.	2842.	2829.	2827.	2869.	2998.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3174.	3174.	2963.	2847.	2842.	2829.	2827.	2869.	2998.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	3300.00	3100.00	2300.00	1900.00	1500.00	1300.00	1200.00	1100.00	500.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	408.	383.	284.	235.	185.	161.	148.	136.	62.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	1667.38	1667.25	1667.25	46.25	46.25	46.25	46.25	46.25	46.25
CAPITAL COST	\$/1,000	1667.	1667.	1667.	46.	46.	46.	46.	46.	46.
SUBTOTAL	\$/1,000	2075.	2050.	1951.	281.	232.	207.	195.	182.	108.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	18019.00	18219.00	17597.00	17221.00	17586.00	17698.00	17787.00	18168.00	19635.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1223.	1237.	1195.	1169.	1194.	1201.	1207.	1233.	1333.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1223.	1237.	1195.	1169.	1194.	1201.	1207.	1233.	1333.

	YEAR	5	6	7	8	9	10	11	12	13
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		814.00	814.00	814.00	814.00	814.00	814.00	814.00	814.00	814.00
OPERATING COST \$*1,000		814.	814.	814.	814.	814.	814.	814.	814.	814.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	814.	814.	814.	814.	814.	814.	814.	814.	814.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	880.00	880.00	880.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	880.	880.	880.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	880.	880.	880.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	8.15
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	105.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	309.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	309.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		1074.00	1074.00	1003.00	964.00	962.00	957.00	957.00	971.00	1015.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1410.27	1410.27	1410.27	1410.27	1410.27	1410.27	1410.27	1410.27	1410.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1515.	1515.	1415.	1360.	1357.	1350.	1350.	1369.	1431.
VOLUME 1000 LCM		1074.00	1074.00	1003.00	964.00	962.00	957.00	957.00	971.00	1015.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		244.	244.	228.	219.	219.	217.	217.	221.	231.
SUBTOTAL \$*1,000		1759.	1759.	1642.	1579.	1575.	1567.	1567.	1590.	1662.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		7134.	7123.	6670.	6424.	6392.	6354.	6346.	6422.	17651.
TOTAL CAPITAL COST \$*1,000		1911.	1911.	1895.	265.	265.	264.	1144.	1147.	4015.
TOTAL COST \$*1,000		9045.	9034.	8565.	6690.	6656.	6618.	7490.	7568.	21667.

	YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE										
DIICH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DIICH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECIARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECIARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	4525.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1233.78	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	5583.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	4525.00	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	312.88	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	1416.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	6999.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	44607.00	44328.00	44258.00	43820.00	42801.00	42753.00	42224.00	41780.00	41725.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	68.14	68.33	68.33	68.33	68.33	66.45	58.16	58.16	58.16
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3040.	3029.	3024.	2994.	2925.	2841.	2456.	2430.	2427.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3040.	3029.	3024.	2994.	2925.	2841.	2456.	2430.	2427.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	10129.00	6814.00	5967.00	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1252.	842.	737.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1252.	842.	737.	0.	0.	0.	0.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	10117.00	13305.00	14120.00	19888.00	19426.00	19404.00	19164.00	18940.00	18938.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	687.	903.	959.	1350.	1319.	1317.	1301.	1286.	1286.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	687.	903.	959.	1350.	1319.	1317.	1301.	1286.	1286.

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		981.25	1037.00	1037.00	1037.00	1037.00	1047.91	1096.00	1096.00	1096.00
OPERATING COST \$*1,000		981.	1037.	1037.	1037.	1037.	1048.	1096.	1096.	1096.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	2257.00	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	2257.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	981.	1037.	1037.	1037.	3294.	1048.	1096.	1096.	1096.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	8239.00	10985.00	10985.00	10985.00	10985.00	10985.00	10985.00	10985.00	10985.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	33.04	33.04	33.04	33.04	33.04	33.04	33.04	33.04	33.04
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		272.	363.	363.	363.	363.	363.	363.	363.	363.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	272.	363.	363.	363.	363.	363.	363.	363.	363.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		1020.00	1014.00	1012.00	1002.00	979.00	978.00	966.00	954.00	954.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1410.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1438.	1384.	1382.	1368.	1337.	1335.	1319.	1302.	1302.
VOLUME 1000 LCM		1020.00	1014.00	1012.00	1002.00	979.00	978.00	966.00	954.00	954.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		232.	230.	230.	228.	222.	222.	219.	217.	217.
SUBTOTAL \$*1,000		1670.	1615.	1612.	1596.	1559.	1557.	1538.	1519.	1519.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		2.50	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		85.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		2.50	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		6915.90	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		17.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		102.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		7754.	13141.	7502.	7112.	6980.	6904.	6534.	6477.	6474.
TOTAL CAPITAL COST \$*1,000		249.	1646.	230.	228.	2479.	222.	219.	217.	217.
TOTAL COST \$*1,000		8003.	14787.	7731.	7340.	9459.	7126.	6754.	6694.	6690.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	89.60
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1239.20
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	111.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	89.60
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	27.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	138.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1228.10
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1556.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1228.10
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	242.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1798.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	23513.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1067.73
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	25106.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	19149.00
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	207.09
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	3966.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	29071.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)										
VOLUME	1000 CUM	41666.00	41609.00	34535.00	0.	0.	0.	0.	0.	1058439.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	58.16	58.16	58.16	0.	0.	0.	0.	0.	64.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2423.	2420.	2009.	0.	0.	0.	0.	0.	67865.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12349.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12349.
SUBTOTAL	\$/1,000	2423.	2420.	2009.	0.	0.	0.	0.	0.	80214.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	55310.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	6834.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16945.13
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16945.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	23779.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)										
VOLUME	1000 CUM	18911.00	18885.00	15679.00	0.	0.	0.	0.	0.	425061.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	0.	0.	0.	0.	0.	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1284.	1282.	1064.	0.	0.	0.	0.	0.	28855.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1284.	1282.	1064.	0.	0.	0.	0.	0.	28855.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1096.00	1096.00	986.40	0.	0.	0.	0.	0.	21597.56
OPERATING COST \$*1,000		1096.	1096.	986.	0.	0.	0.	0.	0.	21598.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8105.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8105.
SUBTOTAL	\$*1,000	1096.	1096.	986.	0.	0.	0.	0.	0.	29703.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	10985.00	10985.00	9886.00	0.	0.	0.	0.	0.	127975.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	33.04	33.04	33.04	0.	0.	0.	0.	0.	33.04
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		363.	363.	327.	0.	0.	0.	0.	0.	4228.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2640.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2640.
SUBTOTAL	\$*1,000	363.	363.	327.	0.	0.	0.	0.	0.	6868.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	14.65
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	157.50
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	524.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	524.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		953.00	952.00	790.00	0.	0.	0.	0.	0.	24206.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1365.27	1365.27	1365.27	0.	0.	0.	0.	0.	1384.35
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1301.	1300.	1079.	0.	0.	0.	0.	0.	33510.
VOLUME 1000 LCM		953.00	952.00	790.00	0.	0.	0.	0.	0.	24206.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	0.	0.	0.	0.	0.	225.67
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		217.	216.	179.	0.	0.	0.	0.	0.	5463.
SUBTOTAL \$*1,000		1518.	1516.	1258.	0.	0.	0.	0.	0.	38972.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	7.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	247.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	7.30
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	50.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	297.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		6467.	6461.	5465.	0.	0.	0.	0.	0.	189909.
TOTAL CAPITAL COST \$*1,000		217.	216.	179.	0.	0.	0.	0.	0.	50310.
TOTAL COST \$*1,000		6684.	6677.	5644.	0.	0.	0.	0.	0.	240219.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	25.42	25.42	25.42	25.42
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	16.	16.	16.	16.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	25.42	25.42	25.42	25.42
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	4.	4.	4.	4.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	19.	19.	19.	19.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	25.42	25.42	25.42	25.42
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	2.60	2.60	2.60	2.60
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	15.	15.	15.	15.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	66.10	66.10	66.10	66.10
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	3.	3.	3.	3.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	18.	18.	18.	18.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	25.42	25.42	25.42	25.42
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	4.	4.	4.	4.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	25.42	25.42	25.42	25.42
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	1.	1.	1.	1.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	5.	5.	5.	5.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	1.40	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	0.	0.	0.	0.	0.	47.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	1.40	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	0.	0.	0.	0.	0.	10.	0.	0.	0.
SUBTOTAL	\$\$1,000	0.	0.	0.	0.	0.	57.	0.	0.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	76.30	76.30	76.30	76.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	2.	2.	2.	2.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	76.30	76.30	76.30	76.30
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	2.	2.	2.	2.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	0.	0.	0.	0.	0.	12.70	12.70	12.70	12.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	6.37	12.74	19.11	25.48
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	16.	22.	29.	35.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	16.	22.	29.	35.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	100.	59.	66.	72.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	17.	8.	8.	8.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	118.	67.	73.	80.

YEAR 5 6 7 8 9 10 11 12 13

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	25.42	25.42	25.42	25.42	25.42	25.42	25.42	84.57	84.57
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	16.	16.	16.	16.	16.	16.	16.	52.	52.
VOLUME	1000 BCM	25.42	25.42	25.42	25.42	25.42	25.42	25.42	84.57	84.57
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	4.	4.	4.	4.	4.	4.	13.	13.
SUBTOTAL	\$/1,000	19.	19.	19.	19.	19.	19.	19.	65.	65.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	25.42	25.42	25.42	25.42	25.42	25.42	25.42	84.57	84.57
HAUL DISTANCE	KM	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	15.	15.	15.	15.	15.	15.	15.	49.	49.
VOLUME*DISTANCE	1000 BCM*KM	66.10	66.10	66.10	66.10	66.10	66.10	66.10	219.90	219.90
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	3.	3.	3.	3.	3.	3.	9.	9.
SUBTOTAL	\$/1,000	18.	18.	18.	18.	18.	18.	18.	59.	59.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	25.42	25.42	25.42	25.42	25.42	25.42	25.42	84.57	84.57
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4.	4.	4.	4.	4.	4.	4.	14.	14.
VOLUME	1000 BCM	25.42	25.42	25.42	25.42	25.42	25.42	25.42	84.57	84.57
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	1.	1.	1.	1.	1.	1.	1.	2.	2.
SUBTOTAL	\$/1,000	5.	5.	5.	5.	5.	5.	5.	16.	16.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.40	0.	0.	0.	0.	0.40	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14.	0.	0.	0.	0.	14.	0.	0.	0.
DISTANCE	KM	0.40	0.	0.	0.	0.	0.40	0.	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	0.	0.	0.	0.	3.	0.	0.	0.
SUBTOTAL	\$/1,000	16.	0.	0.	0.	0.	16.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	27.	27.	27.	27.	27.
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	6.	6.	6.	6.	6.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	33.	33.	33.	33.	33.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
HAUL DISTANCE	KM	0.	0.	0.	0.	5.00	5.00	5.00	4.90	4.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	44.	44.	44.	43.	42.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	247.00	247.00	247.00	242.10	237.10
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	8.	8.	8.	8.	8.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	53.	53.	53.	51.	50.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	7.	7.	7.	7.	7.
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	1.	1.	1.	1.	1.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	8.	8.	8.	8.	8.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	2.20	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	33825.11	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	74.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	2.20	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	6915.90	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	15.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	90.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BVE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	76.30	76.30	76.30	76.30	224.40	224.40	224.40	402.00	402.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2.	2.	2.	2.	6.	6.	6.	11.	11.
VOLUME	1000 BCM	76.30	76.30	76.30	76.30	224.40	224.40	224.40	402.00	402.00
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	1.	1.	1.	2.	2.
SUBTOTAL	\$/1,000	2.	2.	2.	2.	7.	7.	7.	13.	13.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	12.70	12.70	12.70	12.70	37.40	37.40	37.40	67.00	67.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	31.85	38.21	44.58	50.95	89.88	108.64	127.39	160.99	194.59
OPERATING COST	\$/1,000	42.	48.	54.	61.	119.	137.	156.	212.	246.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	42.	48.	54.	61.	119.	137.	156.	212.	246.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	92.	85.	91.	97.	312.	270.	275.	416.	449.
TOTAL CAPITAL COST	\$/1,000	10.	8.	8.	8.	39.	27.	24.	42.	42.
TOTAL COST	\$/1,000	102.	92.	99.	105.	351.	297.	299.	458.	490.

		YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM		59.15	59.15	49.87	61.07	61.07	49.00	49.00	49.00	49.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		36.	36.	31.	38.	38.	30.	30.	30.	30.
VOLUME	1000 BCM		59.15	59.15	49.87	61.07	61.07	49.00	49.00	49.00	49.00
UNIT PRICE 2	\$/1000 BCM		149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		9.	9.	7.	9.	9.	7.	7.	7.	7.
SUBTOTAL	\$/1,000		45.	45.	38.	47.	47.	37.	37.	37.	37.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		59.15	59.15	49.87	61.07	61.07	49.00	49.00	49.00	49.00
HAUL DISTANCE	KM		2.60	2.60	2.33	2.27	2.27	1.60	1.60	1.60	1.60
UNIT PRICE 1	\$/1000 BCM*KM		224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		35.	35.	26.	31.	31.	18.	18.	18.	18.
VOLUME*DISTANCE	1000 BCM*KM		153.80	153.80	116.20	138.60	138.60	78.40	78.40	78.40	78.40
UNIT PRICE 2	\$/1000 BCM*KM		42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		7.	7.	5.	6.	6.	3.	3.	3.	3.
SUBTOTAL	\$/1,000		41.	41.	31.	37.	37.	21.	21.	21.	21.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM		59.15	59.15	49.87	61.07	61.07	49.00	49.00	49.00	49.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		10.	10.	8.	10.	10.	8.	8.	8.	8.
VOLUME	1000 BCM		59.15	59.15	49.87	61.07	61.07	49.00	49.00	49.00	49.00
UNIT PRICE 2	\$/1000 BCM		26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		2.	2.	1.	2.	2.	1.	1.	1.	1.
SUBTOTAL	\$/1,000		11.	11.	9.	12.	12.	9.	9.	9.	9.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	7.50	0.70	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	33825.11	33825.11	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	254.	24.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	7.50	0.70	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	6915.90	6915.90	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	52.	5.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	306.	29.	0.	0.	0.	0.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	27.	27.	71.	77.	77.	71.	71.	71.	71.
VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	6.	17.	19.	19.	17.	17.	17.	17.
SUBTOTAL	\$/1,000	33.	33.	88.	95.	95.	88.	88.	88.	88.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
HAUL DISTANCE	KM	4.70	4.60	4.50	4.10	4.10	4.50	4.50	4.50	4.50
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	41.	41.	105.	104.	104.	105.	105.	105.	105.
VOLUME#DISTANCE	1000 BCM*KM	232.20	227.20	587.70	581.40	581.40	587.70	587.70	587.70	587.70
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	8.	20.	20.	20.	20.	20.	20.	20.
SUBTOTAL	\$/1,000	49.	48.	125.	124.	124.	125.	125.	125.	125.

		YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM		49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		7.	7.	18.	20.	20.	18.	18.	18.	18.
VOLUME	1000 BCM		49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
UNIT PRICE 2	\$/1000 BCM		22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		1.	1.	3.	3.	3.	3.	3.	3.	3.
SUBTOTAL	\$/1,000		8.	8.	21.	23.	23.	21.	21.	21.	21.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

5.10 PREPARED SOIL MANUFACTURE

VOLUME	1000 BCM	325.80	325.80	541.20	574.80	574.80	538.80	538.80	538.80	538.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9.	9.	15.	16.	16.	15.	15.	15.	15.
VOLUME	1000 BCM	325.80	325.80	541.20	574.80	574.80	538.80	538.80	538.80	538.80
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	1.	1.	2.	3.	3.	2.	2.	2.	2.
SUBTOTAL	\$/1,000	10.	10.	17.	19.	19.	17.	17.	17.	17.

5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.12 PREPARED SOIL TRANSPORT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION											
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE											
AREA	HECTARES		54.30	54.30	90.20	95.80	95.80	89.80	89.80	89.80	89.80
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000		221.83	249.06	344.73	392.77	440.81	415.24	460.28	505.31	550.35
OPERATING COST	\$/1,000		264.	291.	414.	466.	514.	484.	529.	574.	619.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		264.	291.	414.	466.	514.	484.	529.	574.	619.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000		428.	455.	942.	785.	810.	749.	794.	839.	884.
TOTAL CAPITAL COST	\$/1,000		34.	34.	108.	66.	61.	54.	54.	54.	54.
TOTAL COST	\$/1,000		462.	488.	1050.	851.	870.	803.	849.	894.	939.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 23 24 25 26 27 28 29 30 TOTALS

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	209.80	209.80	209.80	209.80	209.80	146.60	146.60	146.60	2423.87
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	129.	129.	129.	129.	129.	90.	90.	90.	1491.
VOLUME	1000 BCM	209.80	209.80	209.80	209.80	209.80	146.60	146.60	146.60	2423.87
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	31.	31.	31.	31.	31.	22.	22.	22.	361.
SUBTOTAL	\$/1,000	160.	160.	160.	160.	160.	112.	112.	112.	1852.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	209.80	209.80	209.80	209.80	209.80	146.60	146.60	146.60	2423.87
HAUL DISTANCE	KM	2.67	2.67	2.67	2.67	1.91	1.50	1.50	1.50	2.26
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	244.53	225.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	126.	126.	126.	126.	90.	49.	49.	54.	1235.
VOLUME*DISTANCE	1000 BCM*KM	560.20	560.20	560.20	560.20	400.70	219.90	219.90	219.90	5482.70
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	24.	24.	24.	24.	17.	9.	9.	9.	233.
SUBTOTAL	\$/1,000	150.	150.	150.	150.	107.	59.	59.	63.	1468.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	209.80	209.80	209.80	209.80	209.80	146.60	146.60	146.60	2423.87
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	34.	34.	34.	34.	34.	24.	24.	24.	396.
VOLUME	1000 BCM	209.80	209.80	209.80	209.80	209.80	146.60	146.60	146.60	2423.87
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	6.	6.	6.	6.	4.	4.	4.	65.
SUBTOTAL	\$/1,000	40.	40.	40.	40.	40.	28.	28.	28.	460.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	9.60	1.00	9.60	0.	0.	0.	0.	0.	30.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	325.	34.	325.	0.	0.	0.	0.	0.	1035.
DISTANCE	KM	9.60	1.00	9.60	0.	0.	0.	0.	0.	30.60
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	66.	7.	66.	0.	0.	0.	0.	0.	212.
SUBTOTAL	\$/1,000	391.	41.	391.	0.	0.	0.	0.	0.	1247.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	87.	87.	87.	89.	85.	79.	79.	79.	1368.
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	21.	21.	22.	21.	19.	19.	19.	332.
SUBTOTAL	\$/1,000	108.	108.	108.	111.	106.	99.	99.	99.	1700.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
HAUL DISTANCE	KM	4.50	4.50	4.50	4.50	4.50	2.40	2.40	2.40	4.14
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	129.	129.	129.	132.	126.	63.	63.	63.	1867.
VOLUME*DISTANCE	1000 BCM*KM	723.60	723.60	723.60	740.70	706.50	351.80	351.80	351.80	10454.30
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	25.	25.	25.	25.	24.	12.	12.	12.	355.
SUBTOTAL	\$/1,000	154.	154.	154.	157.	150.	75.	75.	75.	2222.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	23.	23.	23.	23.	22.	21.	21.	21.	356.
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	4.	4.	4.	4.	3.	3.	3.	58.
SUBTOTAL	\$/1,000	26.	26.	26.	27.	26.	24.	24.	24.	414.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	1.30	0.	0.	3.50
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	44.	0.	0.	118.
DISTANCE	KM	0.	0.	0.	0.	0.	1.30	0.	0.	3.50
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	9.	0.	0.	24.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	53.	0.	0.	143.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	629.40	629.40	629.40	629.40	629.40	439.80	439.80	439.80	11051.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18.	18.	18.	18.	18.	12.	12.	12.	308.
VOLUME	1000 BCM	629.40	629.40	629.40	629.40	629.40	439.80	439.80	439.80	11051.60
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	3.	3.	3.	3.	2.	2.	2.	48.
SUBTOTAL	\$/1,000	20.	20.	20.	20.	20.	14.	14.	14.	356.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	104.90	104.90	104.90	104.90	104.90	73.30	73.30	73.30	1841.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	602.95	655.56	708.17	760.78	813.38	850.14	886.90	923.66	10692.71
OPERATING COST	\$/1,000	684.	736.	789.	841.	894.	906.	943.	980.	12107.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	684.	736.	789.	841.	894.	906.	943.	980.	12107.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	1554.	1316.	1659.	1393.	1398.	1289.	1282.	1323.	20282.
TOTAL CAPITAL COST	\$/1,000	179.	120.	179.	114.	105.	81.	72.	72.	1688.
TOTAL COST	\$/1,000	1733.	1435.	1838.	1507.	1503.	1370.	1353.	1395.	21970.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE											
NO. OF PERSONS	PERSONS		4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
6.2 PLANNING											
NO. OF PERSONS	PERSONS		4.00	7.00	18.00	36.00	54.00	72.00	72.00	72.00	72.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
6.3 MINING											
NO. OF PERSONS	PERSONS		3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$*1,000		330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000		330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.

	YEAR	5	6	7	8	9	10	11	12	13
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/PERSON	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	14.00	14.00	14.00	14.00	14.00	1989.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	5.00	5.00	5.00	5.00	5.00	1891.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	770.	828.	884.	884.	884.	884.
CAPITAL COST	\$*1,000	0.	4479.	6190.	0.	1710.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	4479.	6190.	770.	2538.	884.	884.	884.	884.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2416.	1923.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
CAPITAL COST	\$*1,000	412.	330.	237.	370.	246.	304.	485.	376.	219.
SUBTOTAL	\$*1,000	2828.	2253.	1524.	2334.	1599.	1955.	3103.	2414.	1412.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	6440.	7929.	13742.	20517.	20700.	20975.
CAPITAL COST	\$*1,000	9847.	9847.	37900.	52811.	37315.	10500.	14648.	0.	2877.
SUBTOTAL	\$*1,000	9847.	9847.	37900.	59251.	45244.	24243.	35164.	20700.	23852.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	42.	91.	798.	4990.	4289.	3782.	5096.	5979.	7054.
CAPITAL COST	\$*1,000	7.	22.	4242.	4230.	6074.	4217.	6319.	4156.	1908.
SUBTOTAL	\$*1,000	49.	113.	5040.	9220.	10363.	7999.	11415.	10134.	8962.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	100.	59.	66.	72.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	17.	8.	8.	8.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	118.	67.	73.	80.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	2788.	2705.	3828.	17589.	19565.	27008.	36024.	36515.	37026.
TOTAL CAPITAL COST	\$*1,000	10265.	14678.	48568.	57410.	45345.	15038.	21459.	4539.	5011.
TOTAL COST	\$*1,000	13054.	17383.	52397.	74999.	64910.	42047.	57482.	41054.	42037.

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	884.	884.	884.	884.	884.	884.	884.	884.	884.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	884.	884.	884.	884.	884.	884.	884.	884.	884.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
CAPITAL COST	\$*1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
SUBTOTAL	\$*1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	21134.	20509.	19605.	19218.	18522.	17819.	17804.	17771.	19280.
CAPITAL COST	\$*1,000	0.	723.	0.	0.	2877.	0.	0.	0.	723.
SUBTOTAL	\$*1,000	21134.	21232.	19605.	19218.	21399.	17819.	17804.	17771.	20003.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	7134.	7123.	6670.	6424.	6392.	6354.	6346.	6422.	17651.
CAPITAL COST	\$*1,000	1911.	1911.	1895.	265.	265.	264.	1144.	1147.	4015.
SUBTOTAL	\$*1,000	9045.	9034.	8565.	6690.	6656.	6618.	7490.	7568.	21667.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	92.	85.	91.	97.	312.	270.	275.	416.	449.
CAPITAL COST	\$*1,000	10.	8.	8.	8.	39.	27.	24.	42.	42.
SUBTOTAL	\$*1,000	102.	92.	99.	105.	351.	297.	299.	458.	490.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	36825.	36079.	34913.	34167.	34321.	33014.	32798.	32910.	45516.
TOTAL CAPITAL COST	\$*1,000	2055.	2756.	2046.	399.	3442.	446.	1285.	1292.	4853.
TOTAL COST	\$*1,000	38880.	38835.	36959.	34567.	37763.	33460.	34083.	34202.	50370.

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	884.	884.	884.	884.	884.	884.	884.	884.	884.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	884.	884.	884.	884.	884.	884.	884.	884.	884.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	321.	152.	219.	226.	314.	487.	510.	471.	781.
CAPITAL COST	\$*1,000	58.	26.	39.	40.	56.	86.	93.	87.	145.
SUBTOTAL	\$*1,000	379.	178.	258.	265.	370.	573.	603.	558.	926.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	19322.	19152.	19136.	19092.	18889.	19183.	19077.	19389.	19432.
CAPITAL COST	\$*1,000	3889.	0.	0.	0.	0.	2877.	723.	794.	0.
SUBTOTAL	\$*1,000	23211.	19152.	19136.	19092.	18889.	22060.	19800.	20183.	19432.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	7754.	13141.	7502.	7112.	6980.	6904.	6534.	6477.	6474.
CAPITAL COST	\$*1,000	249.	1646.	230.	228.	2479.	222.	219.	217.	217.
SUBTOTAL	\$*1,000	8003.	14787.	7731.	7340.	9459.	7126.	6754.	6694.	6690.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	428.	455.	942.	785.	810.	749.	794.	839.	884.
CAPITAL COST	\$*1,000	34.	34.	108.	66.	61.	54.	54.	54.	54.
SUBTOTAL	\$*1,000	462.	488.	1050.	851.	870.	803.	849.	894.	939.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	35558.	40632.	35531.	34947.	34726.	35056.	34647.	34909.	35303.
TOTAL CAPITAL COST	\$*1,000	4230.	1706.	377.	333.	2596.	3239.	1090.	1152.	416.
TOTAL COST	\$*1,000	39788.	42338.	35907.	35280.	37322.	38295.	35737.	36061.	35719.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	884.	884.	884.	37.	37.	37.	37.	37.	23883.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	12379.
SUBTOTAL	\$*1,000	884.	884.	884.	37.	37.	37.	37.	37.	36262.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	26614.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	4833.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	31447.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	19548.	19534.	11525.	0.	0.	0.	0.	0.	485241.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	188351.
SUBTOTAL	\$*1,000	19548.	19534.	11525.	0.	0.	0.	0.	0.	673592.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	6467.	6461.	5465.	0.	0.	0.	0.	0.	189909.
CAPITAL COST	\$*1,000	217.	216.	179.	0.	0.	0.	0.	0.	50310.
SUBTOTAL	\$*1,000	6684.	6677.	5644.	0.	0.	0.	0.	0.	240219.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	1554.	1316.	1659.	1393.	1398.	1289.	1282.	1323.	20282.
CAPITAL COST	\$*1,000	179.	120.	179.	114.	105.	81.	72.	72.	1688.
SUBTOTAL	\$*1,000	1733.	1435.	1838.	1507.	1503.	1370.	1353.	1395.	21970.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	35301.	35043.	26380.	2541.	2546.	2437.	2430.	2471.	934049.
TOTAL CAPITAL COST	\$*1,000	396.	336.	359.	114.	105.	81.	72.	72.	257562.
TOTAL COST	\$*1,000	35697.	35379.	26739.	2655.	2651.	2518.	2501.	2543.	1191611.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	526.	514.	499.	454.	412.	375.
CAPITAL COST	\$*1,000	0.	3702.	4651.	0.	1062.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	3702.	4651.	526.	1576.	499.	454.	412.	375.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2196.	1589.	967.	1341.	840.	932.	1344.	951.	506.
CAPITAL COST	\$*1,000	374.	273.	178.	252.	153.	172.	249.	175.	93.
SUBTOTAL	\$*1,000	2571.	1862.	1145.	1594.	993.	1104.	1593.	1126.	599.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	4399.	4923.	7757.	10528.	9657.	8895.
CAPITAL COST	\$*1,000	8952.	8138.	28475.	36070.	23170.	5927.	7517.	0.	1220.
SUBTOTAL	\$*1,000	8952.	8138.	28475.	40469.	28093.	13684.	18045.	9657.	10115.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	38.	75.	600.	3408.	2663.	2135.	2615.	2789.	2992.
CAPITAL COST	\$*1,000	6.	18.	3187.	2889.	3771.	2380.	3242.	1939.	809.
SUBTOTAL	\$*1,000	44.	94.	3787.	6297.	6434.	4515.	5858.	4728.	3801.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	57.	30.	31.	31.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	10.	4.	4.	3.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	66.	34.	34.	34.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	2535.	2236.	2876.	12013.	12148.	15246.	18486.	17034.	15703.
TOTAL CAPITAL COST	\$*1,000	9332.	12131.	36490.	39212.	28156.	8489.	11012.	2118.	2125.
TOTAL COST	\$*1,000	11867.	14366.	39366.	51225.	40304.	23734.	29498.	19152.	17828.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	341.	310.	282.	256.	233.	212.	192.	175.	159.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	341.	310.	282.	256.	233.	212.	192.	175.	159.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	283.	221.	260.	201.	359.	201.	139.	113.	73.
CAPITAL COST	\$*1,000	51.	40.	46.	37.	69.	37.	25.	21.	13.
SUBTOTAL	\$*1,000	334.	261.	305.	238.	428.	238.	165.	133.	86.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	8148.	7188.	6247.	5567.	4877.	4266.	3875.	3516.	3468.
CAPITAL COST	\$*1,000	0.	253.	0.	0.	758.	0.	0.	0.	130.
SUBTOTAL	\$*1,000	8148.	7442.	6247.	5567.	5635.	4266.	3875.	3516.	3598.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	2750.	2497.	2125.	1861.	1683.	1521.	1381.	1270.	3175.
CAPITAL COST	\$*1,000	737.	670.	604.	77.	70.	63.	249.	227.	722.
SUBTOTAL	\$*1,000	3487.	3166.	2729.	1938.	1753.	1584.	1630.	1497.	3897.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	35.	30.	29.	28.	82.	65.	60.	82.	81.
CAPITAL COST	\$*1,000	4.	3.	2.	2.	10.	6.	5.	8.	7.
SUBTOTAL	\$*1,000	39.	32.	31.	30.	92.	71.	65.	91.	88.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	14198.	12645.	11124.	9897.	9038.	7903.	7138.	6511.	8187.
TOTAL CAPITAL COST	\$*1,000	792.	966.	652.	116.	906.	107.	280.	256.	873.
TOTAL COST	\$*1,000	14990.	13611.	11776.	10013.	9944.	8010.	7418.	6767.	9059.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	145.	131.	119.	109.	99.	90.	82.	74.	67.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	145.	131.	119.	109.	99.	90.	82.	74.	67.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	52.	23.	30.	28.	35.	49.	47.	40.	60.
CAPITAL COST	\$*1,000	9.	4.	5.	5.	6.	9.	9.	7.	11.
SUBTOTAL	\$*1,000	62.	26.	35.	33.	41.	58.	56.	47.	71.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	3159.	2847.	2586.	2345.	2110.	1948.	1761.	1627.	1482.
CAPITAL COST	\$*1,000	636.	0.	0.	0.	0.	292.	67.	67.	0.
SUBTOTAL	\$*1,000	3795.	2847.	2586.	2345.	2110.	2240.	1827.	1694.	1482.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	1268.	1953.	1014.	874.	779.	701.	603.	543.	494.
CAPITAL COST	\$*1,000	41.	245.	31.	28.	277.	23.	20.	18.	17.
SUBTOTAL	\$*1,000	1309.	2198.	1045.	902.	1056.	724.	623.	562.	510.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	70.	68.	127.	96.	90.	76.	73.	70.	67.
CAPITAL COST	\$*1,000	6.	5.	15.	8.	7.	6.	5.	5.	4.
SUBTOTAL	\$*1,000	76.	73.	142.	105.	97.	82.	78.	75.	72.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	5814.	6040.	4801.	4293.	3878.	3559.	3198.	2929.	2693.
TOTAL CAPITAL COST	\$*1,000	692.	254.	51.	41.	290.	329.	101.	97.	32.
TOTAL COST	\$*1,000	6506.	6293.	4852.	4334.	4168.	3888.	3298.	3026.	2725.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (1 BWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	61.	56.	51.	2.	2.	2.	1.	1.	6030.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	9414.
SUBTOTAL	\$*1,000	61.	56.	51.	2.	2.	2.	1.	1.	15444.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	12879.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	2322.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	15201.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	1355.	1231.	660.	0.	0.	0.	0.	0.	116422.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	121671.
SUBTOTAL	\$*1,000	1355.	1231.	660.	0.	0.	0.	0.	0.	238093.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	448.	407.	313.	0.	0.	0.	0.	0.	44978.
CAPITAL COST	\$*1,000	15.	14.	10.	0.	0.	0.	0.	0.	22399.
SUBTOTAL	\$*1,000	463.	421.	323.	0.	0.	0.	0.	0.	67376.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	108.	83.	95.	73.	66.	56.	50.	47.	1956.
CAPITAL COST	\$*1,000	12.	8.	10.	6.	5.	3.	3.	3.	179.
SUBTOTAL	\$*1,000	120.	90.	105.	78.	71.	59.	53.	50.	2135.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	475.	432.	392.	58.	53.	48.	43.	40.	46567.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	475.	432.	392.	58.	53.	48.	43.	40.	46567.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	2448.	2209.	1512.	132.	121.	105.	95.	88.	228832.
TOTAL CAPITAL COST	\$*1,000	27.	21.	21.	6.	5.	3.	3.	3.	155985.
TOTAL COST	\$*1,000	2475.	2230.	1532.	138.	126.	108.	98.	90.	384817.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

8.0

60,000 BPCD

Dragline Mine

Improved Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	659.00	659.00	659.00	659.00	659.00	659.00
OPERATING COST \$*1,000		0.	0.	0.	659.	659.	659.	659.	659.	659.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	4562.00	4562.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	4562.	4562.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	4562.	4562.	659.	659.	659.	659.	659.	659.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		0.	0.	0.	114.00	172.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	114.	172.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	114.00	0.	114.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1710.	0.	1710.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	1710.	114.	1882.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	773.	831.	887.	887.	887.	887.
TOTAL CAPITAL COST \$*1,000		0.	4562.	6272.	0.	1710.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	4562.	6272.	773.	2541.	887.	887.	887.	887.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		659.00	659.00	659.00	659.00	659.00	659.00	659.00	659.00	659.00
OPERATING COST \$*1,000		659.	659.	659.	659.	659.	659.	659.	659.	659.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	659.	659.	659.	659.	659.	659.	659.	659.	659.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	228.	228.	228.	228.	228.	228.	228.	228.	228.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		887.	887.	887.	887.	887.	887.	887.	887.	887.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		887.	887.	887.	887.	887.	887.	887.	887.	887.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		659.00	659.00	659.00	659.00	659.00	659.00	659.00	659.00	659.00
OPERATING COST \$*1,000		659.	659.	659.	659.	659.	659.	659.	659.	659.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	659.	659.	659.	659.	659.	659.	659.	659.	659.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	228.	228.	228.	228.	228.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		887.	887.	887.	887.	887.	887.	887.	887.	887.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		887.	887.	887.	887.	887.	887.	887.	887.	887.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		659.00	659.00	659.00	0.	0.	0.	0.	0.	17793.00
OPERATING COST \$*1,000		659.	659.	659.	0.	0.	0.	0.	0.	17793.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	9124.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	9124.
SUBTOTAL \$*1,000		659.	659.	659.	0.	0.	0.	0.	0.	26917.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	37.00	37.00	37.00	37.00	37.00	6171.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	37.	37.	37.	37.	37.	6171.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	228.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3420.
SUBTOTAL \$*1,000		228.	228.	228.	37.	37.	37.	37.	37.	9591.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		887.	887.	887.	37.	37.	37.	37.	37.	23964.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	12544.
TOTAL COST \$*1,000		887.	887.	887.	37.	37.	37.	37.	37.	36508.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING										
AREA	HECTARES	663.70	402.60	82.60	116.90	98.00	79.90	54.50	54.90	58.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	841.	510.	105.	148.	124.	101.	69.	70.	74.
AREA	HECTARES	663.70	402.60	182.60	116.90	98.00	79.90	54.50	54.90	58.60
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	131.	79.	36.	23.	19.	16.	11.	11.	12.
SUBTOTAL	\$*1,000	971.	589.	141.	171.	143.	117.	80.	80.	86.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	237.	69.	60.	73.	124.	101.	62.	41.	38.
DITCH VOLUME	1000 BCM	128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	38.	11.	10.	12.	20.	16.	10.	7.	6.
SUBTOTAL	\$*1,000	276.	80.	70.	85.	144.	118.	73.	48.	45.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	508.	415.	442.	442.	410.	529.	979.	788.	444.
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	124.	101.	107.	107.	100.	129.	238.	191.	108.
SUBTOTAL	\$*1,000	632.	516.	549.	549.	509.	658.	1217.	979.	552.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
HAUL DISTANCE	KM	2.50	1.50	2.35	4.40	3.85	3.45	3.20	3.00	2.95
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	374.	183.	306.	572.	465.	538.	923.	696.	386.
VOLUME*DISTANCE	1000 BCM*KM	1313.10	731.25	1219.10	2282.50	1852.80	2145.50	3680.00	2775.00	1539.50
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	64.	36.	59.	111.	90.	104.	179.	135.	75.
SUBTOTAL	\$/1,000	438.	219.	365.	684.	555.	643.	1102.	831.	461.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	286.	234.	249.	249.	231.	298.	551.	443.	250.
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	17.	18.	18.	17.	22.	40.	32.	18.
SUBTOTAL	\$/1,000	307.	251.	267.	267.	247.	320.	591.	475.	268.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	0.	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	169.	132.	127.	480.	0.	83.	34.	0.	0.
LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	0.	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	35.	27.	26.	98.	0.	17.	7.	0.	0.
SUBTOTAL	\$/1,000	204.	159.	153.	579.	0.	100.	41.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	2416.	1543.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
TOTAL CAPITAL COST	\$/1,000	412.	271.	256.	370.	246.	304.	485.	376.	219.
TOTAL COST	\$/1,000	2828.	1813.	1544.	2334.	1599.	1955.	3103.	2414.	1412.

YEAR 5 6 7 8 9 10 11 12 13

2.1 CLEARING

AREA	HECTARES	56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	72.	72.	222.	73.	66.	53.	52.	51.	58.
AREA	HECTARES	56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	11.	11.	34.	11.	10.	8.	8.	8.	9.
SUBTOTAL	\$*1,000	83.	84.	256.	84.	77.	61.	61.	59.	67.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	41.	40.	44.	43.	40.	37.	25.	20.	7.
DITCH VOLUME	1000 BCM	22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	7.	6.	7.	7.	7.	6.	4.	3.	1.
SUBTOTAL	\$*1,000	48.	46.	51.	50.	47.	42.	30.	23.	9.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	255.	221.	237.	229.	290.	269.	231.	210.	146.
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	62.	54.	58.	56.	71.	65.	56.	51.	36.
SUBTOTAL	\$*1,000	318.	275.	294.	284.	361.	334.	288.	261.	182.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
HAUL DISTANCE	KM	2.80	2.65	2.25	2.70	3.35	3.15	2.95	2.75	2.55
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	211.	172.	157.	182.	286.	249.	201.	170.	110.
VOLUME*DISTANCE	1000 BCM*KM	840.00	687.30	625.80	725.60	1141.10	994.20	802.00	678.90	438.30
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	41.	33.	30.	35.	56.	48.	39.	33.	21.
SUBTOTAL	\$/1,000	252.	206.	187.	217.	342.	298.	240.	203.	131.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	144.	124.	133.	129.	163.	151.	130.	118.	82.
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	10.	9.	10.	9.	12.	11.	9.	9.	6.
SUBTOTAL	\$/1,000	154.	133.	143.	138.	175.	162.	140.	127.	88.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	33825.11	33825.11	33825.11	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10.	0.	22.	39.	518.	79.	0.	0.	0.
LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	6915.90	6915.90	6915.90	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	0.	4.	8.	106.	16.	0.	0.	0.
SUBTOTAL	\$/1,000	12.	0.	26.	47.	623.	96.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
TOTAL CAPITAL COST	\$/1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
TOTAL COST	\$/1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.

		YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING											
AREA	HECTARES		37.40	35.50	39.90	42.40	36.70	94.00	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		47.	45.	51.	54.	46.	119.	0.	0.	0.
AREA	HECTARES		37.40	35.50	39.90	42.20	36.70	94.00	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		196.85	196.85	196.85	196.85	196.85	196.85	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		7.	7.	8.	8.	7.	19.	0.	0.	0.
SUBTOTAL	\$/1,000		55.	52.	58.	62.	54.	138.	0.	0.	0.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		12.	11.	15.	22.	30.	30.	46.	0.	0.
DITCH VOLUME	1000 BCM		6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
UNIT PRICE 2	\$/1000 BCM		300.00	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		2.	2.	3.	4.	5.	5.	7.	0.	0.
SUBTOTAL	\$/1,000		14.	13.	18.	26.	35.	35.	53.	0.	0.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		114.	43.	69.	69.	114.	165.	231.	242.	349.
VOLUME	1000 BCM		134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM		207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		28.	10.	17.	17.	28.	40.	56.	59.	85.
SUBTOTAL	\$/1,000		142.	53.	86.	86.	142.	205.	288.	301.	433.

YEAR 14 15 16 17 18 19 20 21 22

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
HAUL DISTANCE	KM	2.45	2.30	2.20	2.05	1.75	1.65	1.50	1.30	2.30
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	83.	29.	45.	42.	59.	80.	102.	93.	236.
VOLUME*DISTANCE	1000 BCM*KM	329.20	115.00	178.75	166.60	235.20	319.70	407.80	369.70	941.60
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	6.	9.	8.	11.	16.	20.	18.	46.
SUBTOTAL	\$/1,000	99.	34.	54.	50.	70.	96.	122.	111.	282.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	64.	24.	39.	39.	64.	93.	130.	136.	196.
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5.	2.	3.	3.	5.	7.	9.	10.	14.
SUBTOTAL	\$/1,000	69.	26.	42.	42.	69.	100.	140.	146.	210.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	321.	152.	219.	226.	314.	487.	510.	471.	781.
TOTAL CAPITAL COST	\$/1,000	58.	26.	39.	40.	56.	86.	93.	87.	145.
TOTAL COST	\$/1,000	379.	178.	258.	265.	370.	573.	603.	558.	926.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	2465.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	3124.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	2565.50
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	505.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	3629.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	686.45
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1270.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	686.45
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	206.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1476.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8442.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2053.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	10495.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	2.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	6951.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	27535.50
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1341.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8292.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4754.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	343.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5097.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1693.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	346.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2039.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	26233.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4794.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	31027.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	177.33	177.33	177.33	177.33	177.33	177.33	177.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1144.	1578.	1578.	1578.	1578.	1578.	1578.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	6018.00	6018.00	6019.00	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6018.	6018.	6019.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	6018.	6018.	6019.	1144.	1578.	1578.	1578.	1578.	1578.	1578.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	10913.00	19404.00	19751.00	20373.00	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	210.91	210.91	210.91	210.91	210.91
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	2302.	4092.	4166.	4297.	
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	28051.00	28051.00	28050.00	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	28051.	28051.	28050.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	28051.	28051.	28050.	2302.	4092.	4166.	4297.	
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	21140.00	30572.00	30919.00	31418.00
DISTANCE	M	0.	0.	0.	5900.00	8600.00	12670.00	17130.00	17130.00	17680.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	679.	1365.	4777.	9340.	9446.	9907.
CONV. INCREASE	M	0.	0.	0.	5900.00	2700.00	4070.00	4460.00	0.	550.00
UNIT PRICE 2	\$/M	0.	0.	0.	2941.29	2941.29	2941.29	2941.29	0.	2941.29
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	17354.	7941.	11971.	13118.	0.	1618.
SUBTOTAL	\$*1,000	0.	0.	0.	18032.	9307.	16748.	22458.	9446.	11525.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	10227.00	11168.00	11168.00	11045.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	117.97	117.97	117.97	117.97	117.97	117.97
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	761.	1050.	1206.	1317.	1317.	1303.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	3829.00	3829.00	3830.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	3829.	3829.	3830.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	3829.	3829.	3830.	761.	1050.	1206.	1317.	1317.	1303.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00
OPERATING COST	\$*1,000	0.	0.	0.	3843.	3843.	3843.	3843.	3843.	3843.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	7112.00	0.	0.	0.	0.	2877.00
CAPITAL COST	\$*1,000	0.	0.	0.	7112.	0.	0.	0.	0.	2877.
SUBTOTAL	\$*1,000	0.	0.	0.	10955.	3843.	3843.	3843.	3843.	6720.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	0.	0.	0.	6426.	7836.	13706.	20171.	20351.	20928.
TOTAL CAPITAL COST	\$*1,000	9847.	9847.	37900.	52517.	35991.	11971.	13118.	0.	4495.
TOTAL COST	\$*1,000	9847.	9847.	37900.	58943.	43828.	25677.	33290.	20351.	25423.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		20698.00	20698.00	19317.00	18564.00	18530.00	18445.00	18434.00	18707.00	19549.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		4365.	4365.	4074.	3915.	3908.	3890.	3888.	3945.	4123.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		4365.	4365.	4074.	3915.	3908.	3890.	3888.	3945.	4123.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	31714.00	31714.00	29909.00	29145.00	28920.00	28585.00	28574.00	28568.00	29110.00
DISTANCE	M	17680.00	17630.00	17580.00	17580.00	16730.00	15620.00	15550.00	16250.00	16250.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10000.	9972.	9378.	9138.	8629.	7963.	7925.	8280.	8437.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	10000.	9972.	9378.	9138.	8629.	7963.	7925.	8280.	8437.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	11016.00	11016.00	10592.00	10581.00	10390.00	10140.00	10140.00	9861.00	9561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1300.	1300.	1250.	1248.	1226.	1196.	1196.	1163.	1128.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1300.	1300.	1250.	1248.	1226.	1196.	1196.	1163.	1128.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00
OPERATING COST	\$/1,000	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	723.00	0.	0.	2877.00	0.	0.	0.	723.00
CAPITAL COST	\$/1,000	0.	723.	0.	0.	2877.	0.	0.	0.	723.
SUBTOTAL	\$/1,000	3843.	4566.	3843.	3843.	6720.	3843.	3843.	3843.	4566.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	21086.	21058.	20123.	19723.	19184.	18471.	18430.	18810.	19109.
TOTAL CAPITAL COST	\$/1,000	0.	723.	0.	0.	2877.	0.	0.	0.	723.
TOTAL COST	\$/1,000	21086.	21781.	20123.	19723.	22061.	18471.	18430.	18810.	19832.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00	8900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33	177.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.	1578.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	19656.00	19533.00	19502.00	19309.00	18860.00	18839.00	18606.00	18388.00	18386.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91	210.91
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4146.	4120.	4113.	4072.	3978.	3973.	3924.	3878.	3878.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4146.	4120.	4113.	4072.	3978.	3973.	3924.	3878.	3878.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	29188.00	28804.00	28773.00	28709.00	28321.00	28300.00	28101.00	27886.00	27983.00
DISTANCE	M	16250.00	16250.00	16250.00	16250.00	16950.00	17000.00	17000.00	17850.00	17850.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8459.	8348.	8339.	8320.	8562.	8580.	8520.	8878.	8909.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	170.00	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	2941.29	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	500.	0.
SUBTOTAL	\$/1,000	8459.	8348.	8339.	8320.	8562.	8580.	8520.	9378.	8909.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	9532.00	9271.00	9271.00	9400.00	9461.00	9461.00	9495.00	9498.00	9597.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97	117.97
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1124.	1094.	1094.	1109.	1116.	1116.	1120.	1120.	1132.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1124.	1094.	1094.	1109.	1116.	1116.	1120.	1120.	1132.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00	3843.00
OPERATING COST	\$/1,000	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.	3843.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3889.00	0.	0.	0.	0.	2877.00	723.00	0.	0.
CAPITAL COST	\$/1,000	3889.	0.	0.	0.	0.	2877.	723.	0.	0.
SUBTOTAL	\$/1,000	7732.	3843.	3843.	3843.	3843.	6720.	4566.	3843.	3843.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	19151.	18983.	18967.	18923.	19077.	19091.	18986.	19298.	19340.
TOTAL CAPITAL COST	\$/1,000	3889.	0.	0.	0.	0.	2877.	723.	500.	0.
TOTAL COST	\$/1,000	23040.	18983.	18967.	18923.	19077.	21968.	19709.	19798.	19340.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	8900.00	8900.00	965.00	0.	0.	0.	0.	0.	229915.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.33	177.33	177.33	0.	0.	0.	0.	0.	177.34
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	1578.	1578.	171.	0.	0.	0.	0.	0.	40772.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	18055.00
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	18055.
SUBTOTAL	\$*1,000	1578.	1578.	171.	0.	0.	0.	0.	0.	58827.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	18360.00	18335.00	15222.00	0.	0.	0.	0.	0.	466379.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	210.91	210.91	210.91	0.	0.	0.	0.	0.	210.91
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	3872.	3867.	3210.	0.	0.	0.	0.	0.	98363.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	84152.00
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	84152.
SUBTOTAL	\$*1,000	3872.	3867.	3210.	0.	0.	0.	0.	0.	182515.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	28252.00	28227.00	16842.00	0.	0.	0.	0.	0.	725024.00
DISTANCE	M	17850.00	17850.00	13510.00	0.	0.	0.	0.	0.	16564.17
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.	0.	0.	0.	0.	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	8994.	8986.	4058.	0.	0.	0.	0.	0.	214188.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	17850.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	2941.29
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	52502.
SUBTOTAL	\$/1,000	8994.	8986.	4058.	0.	0.	0.	0.	0.	266690.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	9892.00	9892.00	1620.00	0.	0.	0.	0.	0.	258645.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	117.97	117.97	117.97	0.	0.	0.	0.	0.	117.97
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1167.	1167.	191.	0.	0.	0.	0.	0.	30512.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	11488.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	11488.
SUBTOTAL	\$/1,000	1167.	1167.	191.	0.	0.	0.	0.	0.	42000.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3843.00	3843.00	3843.00	0.	0.	0.	0.	0.	103761.00
OPERATING COST	\$/1,000	3843.	3843.	3843.	0.	0.	0.	0.	0.	103761.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	21801.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	21801.
SUBTOTAL	\$/1,000	3843.	3843.	3843.	0.	0.	0.	0.	0.	125562.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	19455.	19441.	11474.	0.	0.	0.	0.	0.	487596.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	187998.
TOTAL COST	\$/1,000	19455.	19441.	11474.	0.	0.	0.	0.	0.	675594.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	80.80	16.00	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	1239.20	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	100.	20.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	80.80	16.00	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	300.95	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	24.	5.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	124.	25.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	33.40	0.	614.50	580.20	370.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	0.	1266.82	1266.82	1266.82	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	42.	0.	778.	735.	469.	0.	0.	0.	0.
AREA	HECTARES	33.40	0.	614.50	580.20	370.00	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.82	0.	196.85	196.85	196.85	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	7.	0.	121.	114.	73.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	49.	0.	899.	849.	542.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	2045.00	2045.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	3988.	3988.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	3988.	3988.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	24766.00	44035.00	44823.00	46234.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	86.41	49.78	50.06	56.04
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	2140.	2192.	2244.	2591.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	4271.00	4271.00	4271.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	4271.	4271.	4271.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	4271.	4271.	4271.	2140.	2192.	2244.	2591.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	6100.00	4400.00	3300.00	3100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	754.	544.	408.	383.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	2493.75	4610.50	4610.63	1945.75
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	2494.	4611.	4611.	1946.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	3247.	5154.	5018.	2329.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	5140.00	15586.00	17044.00	17884.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	349.	1058.	1157.	1214.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	349.	1058.	1157.	1214.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER											
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	642.00	642.00
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	642.	642.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	1599.00	1598.00	1598.00	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	1599.	1598.	1598.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	1599.	1598.	1598.	642.	642.
4.8 REHANDLING OF TAILINGS SLUDGE											
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT											
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	4.40	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	25000.00	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	24.50	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	135.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	135.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	566.00	1007.00	1025.00	1057.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1313.36	1313.36	1313.36	1313.36
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	743.	1323.	1346.	1388.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	566.00	1007.00	1025.00	1057.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	204.00	204.00	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	115.	205.	233.	240.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	859.	1528.	1579.	1628.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	33825.11	0.	33825.11	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	34.	0.	129.	0.	0.
LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	6915.90	0.	6915.90	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	7.	0.	26.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	41.	0.	155.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		42.	100.	798.	4723.	4490.	3986.	5245.	5797.	6218.
TOTAL CAPITAL COST \$*1,000		7.	24.	4397.	4385.	5950.	4207.	6575.	4843.	2186.
TOTAL COST \$*1,000		49.	124.	5195.	9108.	10440.	8193.	11820.	10640.	8404.

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4.1 AREA DRAINAGE

DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.2 CLEARING

AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS

VOLUME	1000 BCM	3008.00	3008.00	3008.00	3008.00	3008.00	3008.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	848.47	848.47	848.47	848.47	848.47	848.47	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2552.	2552.	2552.	2552.	2552.	2552.	0.	0.	0.
QUANTITY 3		3008.00	3008.00	3008.00	3008.00	3008.00	3008.00	0.	0.	0.
UNIT PRICE 2		203.96	203.96	203.96	203.96	203.96	203.96	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	614.	614.	614.	614.	614.	614.	0.	0.	0.
SUBTOTAL	\$/1,000	3166.	3166.	3166.	3166.	3166.	3166.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	46972.00	46972.00	43838.00	42129.00	42052.00	41859.00	41834.00	42454.00	44365.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	58.06	69.15	80.52	80.52	80.52	80.52	80.52	80.52	80.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2727.	3248.	3530.	3392.	3386.	3370.	3368.	3418.	3574.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2727.	3248.	3530.	3392.	3386.	3370.	3368.	3418.	3574.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	3400.00	3000.00	3200.00	2700.00	2100.00	1800.00	1600.00	1500.00	1300.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	420.	371.	395.	334.	259.	222.	198.	185.	161.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	1945.75	1945.88	1945.88	84.13	84.13	84.13	84.13	84.13	84.13
CAPITAL COST	\$/1,000	1946.	1946.	1946.	84.	84.	84.	84.	84.	84.
SUBTOTAL	\$/1,000	2366.	2317.	2341.	418.	344.	307.	282.	269.	245.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	17919.00	18319.00	16697.00	16421.00	16986.00	17198.00	17387.00	17768.00	18835.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1216.	1244.	1133.	1115.	1153.	1167.	1180.	1206.	1279.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1216.	1244.	1133.	1115.	1153.	1167.	1180.	1206.	1279.

	YEAR	5	6	7	8	9	10	11	12	13
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		642.00	950.00	950.00	950.00	950.00	950.00	950.00	950.00	950.00
OPERATING COST \$*1,000		642.	950.	950.	950.	950.	950.	950.	950.	950.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		642.	950.	950.	950.	950.	950.	950.	950.	950.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		0.	0.	0.	0.	9835.40	9835.40	9835.40	9835.40	9835.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	1802.56	1802.56	1802.56	1802.56	1802.56
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	17729.	17729.	17729.	17729.	17729.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	7979.00	7979.00	7979.00	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	7979.	7979.	7979.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	7979.	7979.	7979.	17729.	17729.	17729.	17729.	17729.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		3.85	0.	0.	3.75	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		25000.00	0.	0.	25000.00	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		40.25	0.	0.	70.00	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		137.	0.	0.	164.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		137.	0.	0.	164.	0.	0.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		1074.00	1074.00	1003.00	964.00	962.00	957.00	957.00	971.00	1015.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1313.36	1313.36	1313.36	1313.36	1313.36	1313.36	1313.36	1313.36	1313.36
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1411.	1411.	1317.	1266.	1263.	1257.	1257.	1275.	1333.
VOLUME 1000 LCM		1074.00	1074.00	1003.00	994.00	962.00	957.00	957.00	971.00	1015.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		244.	244.	228.	226.	219.	217.	217.	221.	231.
SUBTOTAL \$*1,000		1655.	1655.	1545.	1492.	1482.	1474.	1474.	1496.	1564.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		8968.	9775.	9878.	9609.	27293.	27248.	24682.	24764.	25025.
TOTAL CAPITAL COST \$*1,000		2940.	10782.	10766.	9066.	916.	915.	302.	305.	315.
TOTAL COST \$*1,000		11908.	20557.	20644.	18675.	28209.	28163.	24984.	25069.	25340.

		YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	44607.00	44328.00	44258.00	43820.00	42801.00	42753.00	42224.00	41730.00	41725.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	63.42	63.42	63.42	63.42	63.42	63.42	63.42	63.42	63.42
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2829.	2811.	2807.	2779.	2714.	2711.	2678.	2647.	2646.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2829.	2811.	2807.	2779.	2714.	2711.	2678.	2647.	2646.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	1100.00	1100.00	900.00	300.00	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	136.	136.	111.	37.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	136.	136.	111.	37.	0.	0.	0.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	19146.00	19019.00	19187.00	19588.00	19426.00	19404.00	19164.00	18940.00	18938.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1300.	1291.	1302.	1330.	1319.	1317.	1301.	1286.	1286.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1300.	1291.	1302.	1330.	1319.	1317.	1301.	1286.	1286.

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		934.00	934.00	934.00	934.00	934.00	934.00	934.00	934.00	934.00
OPERATING COST \$*1,000		934.	934.	934.	934.	934.	934.	934.	934.	934.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		934.	934.	934.	934.	934.	934.	934.	934.	934.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		9835.40	9835.40	9835.40	9835.40	9835.40	9835.40	9835.40	9835.40	9835.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		1802.56	1802.56	1802.56	1802.56	1802.56	1802.56	1802.56	1802.56	1802.56
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.

	YEAR	14	15	16	17	18	19	20	21	22
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		1020.00	1014.00	1012.00	1002.00	979.00	978.00	966.00	954.00	954.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1313.36	1413.36	1313.36	1313.36	1313.36	1313.36	1313.36	1313.36	1313.36
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1340.	1433.	1329.	1316.	1286.	1284.	1269.	1253.	1253.
VOLUME 1000 LCM		1020.00	1014.00	1012.00	1002.00	979.00	978.00	966.00	954.00	954.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		232.	230.	230.	228.	222.	222.	219.	217.	217.
SUBTOTAL \$*1,000		1571.	1664.	1559.	1544.	1508.	1507.	1488.	1470.	1470.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		2.50	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		85.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		2.50	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		6915.90	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		17.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		102.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		24352.	24334.	24213.	24125.	23982.	23976.	23910.	23848.	23848.
TOTAL CAPITAL COST \$*1,000		249.	230.	230.	228.	222.	222.	219.	217.	217.
TOTAL COST \$*1,000		24601.	24565.	24442.	24352.	24204.	24198.	24130.	24065.	24064.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE										
DIICH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	96.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1239.20
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	120.
DIICH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	96.80
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	29.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	149.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	1598.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2025.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	1598.10
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	315.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2339.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	22138.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1051.98
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	23289.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	18048.00
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	203.96
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	3681.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	26970.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	41666.00	41609.00	34545.00	0.	0.	0.	0.	0.	1058399.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	63.42	63.42	63.42	0.	0.	0.	0.	0.	67.34
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2642.	2639.	2191.	0.	0.	0.	0.	0.	71276.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12813.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12813.
SUBTOTAL	\$/1,000	2642.	2639.	2191.	0.	0.	0.	0.	0.	84089.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	40900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5054.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20002.88
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20003.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	25056.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	18911.00	18885.00	15679.00	0.	0.	0.	0.	0.	439471.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	0.	0.	0.	0.	0.	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1284.	1282.	1064.	0.	0.	0.	0.	0.	29833.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1284.	1282.	1064.	0.	0.	0.	0.	0.	29833.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	12.00
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	134.75
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	435.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	435.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		953.00	952.00	790.00	0.	0.	0.	0.	0.	24206.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1313.36	1313.36	1313.36	0.	0.	0.	0.	0.	1317.55
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1252.	1250.	1038.	0.	0.	0.	0.	0.	31893.
VOLUME 1000 LCM		953.00	952.00	790.00	0.	0.	0.	0.	0.	24236.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	0.	0.	0.	0.	0.	225.68
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		217.	216.	179.	0.	0.	0.	0.	0.	5469.
SUBTOTAL \$*1,000		1468.	1467.	1217.	0.	0.	0.	0.	0.	37362.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	7.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	247.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	7.30
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	50.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	297.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		23841.	23834.	21089.	0.	0.	0.	0.	0.	483995.
TOTAL CAPITAL COST \$*1,000		217.	216.	179.	0.	0.	0.	0.	0.	71527.
TOTAL COST \$*1,000		24057.	24050.	21269.	0.	0.	0.	0.	0.	555522.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		934.00	934.00	840.60	0.	0.	0.	0.	0.	20640.60
OPERATING COST \$*1,000		934.	934.	841.	0.	0.	0.	0.	0.	20641.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	4795.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	4795.
SUBTOTAL	\$*1,000	934.	934.	841.	0.	0.	0.	0.	0.	25436.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		9835.40	9835.40	8851.90	0.	0.	0.	0.	0.	166218.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		1802.56	1802.56	1802.56	0.	0.	0.	0.	0.	1802.56
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		17729.	17729.	15956.	0.	0.	0.	0.	0.	299618.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	23937.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	23937.
SUBTOTAL	\$*1,000	17729.	17729.	15956.	0.	0.	0.	0.	0.	323555.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	76.40	76.40	76.40	76.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	47.	47.	47.	47.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	76.40	76.40	76.40	76.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	11.	11.	11.	11.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	58.	58.	58.	58.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	76.40	76.40	76.40	76.40
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.70	0.70	0.70	0.70
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	12.	12.	12.	12.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	53.50	53.50	53.50	53.50
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	2.	2.	2.	2.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	14.	14.	14.	14.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	76.40	76.40	76.40	76.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	12.	12.	12.	12.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	76.40	76.40	76.40	76.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	2.	2.	2.	2.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	15.	15.	15.	15.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.70	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	24.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.70	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	5.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	29.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	152.80	152.80	152.80	152.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	83.	83.	83.	83.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	152.80	152.80	152.80	152.80
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	20.	20.	20.	20.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	103.	103.	103.	103.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	152.80	152.80	152.80	152.80
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.50	0.50	0.50	0.50
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	14.	14.	14.	14.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	76.40	76.40	76.40	76.40
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	3.	3.	3.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	16.	16.	16.	16.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	152.80	152.80	152.80	152.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	22.	22.	22.	22.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	152.80	152.80	152.80	152.80
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	4.	4.	4.	4.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	25.	25.	25.	25.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.50	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	17.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.50	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	20.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	229.20	229.20	229.20	229.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	48.	48.	48.	48.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	229.20	229.20	229.20	229.20
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	11.	11.	11.	11.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	59.	59.	59.	59.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	229.20	229.20	229.20	229.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	99.	99.	99.	99.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	229.20	229.20	229.20	229.20
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	26.	26.	26.	26.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	125.	125.	125.	125.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	229.20	229.20	229.20	229.20
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	1.70	1.70	1.70	1.70
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	83.	83.	83.	83.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	389.60	389.60	389.60	389.60
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	51.	51.	51.	51.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	134.	134.	134.	134.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	229.20	229.20	229.20	229.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	35.	35.	35.	35.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	229.20	229.20	229.20	229.20
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	6.	6.	6.	6.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	40.	40.	40.	40.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	1.70	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	58.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	1.70	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	12.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	69.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	0.	0.	0.	0.	0.	22.90	22.90	22.90	22.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	11.48	22.97	34.45	45.94
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	29.	41.	52.	64.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	29.	41.	52.	64.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	581.	494.	506.	517.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	156.	136.	136.	136.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	737.	630.	642.	653.

	YEAR	5	6	7	8	9	10	11	12	13
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	85.80	85.80	0.	0.	0.	0.	187.00	187.00	187.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	0.	0.	0.	0.	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	53.	53.	0.	0.	0.	0.	115.	115.	115.
VOLUME	1000 BCM	85.80	85.80	0.	0.	0.	0.	187.00	187.00	187.00
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	0.	0.	0.	0.	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	13.	13.	0.	0.	0.	0.	28.	28.	28.
SUBTOTAL	\$/1,000	66.	66.	0.	0.	0.	0.	143.	143.	143.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	85.80	85.80	0.	0.	0.	0.	187.00	187.00	187.00
HAUL DISTANCE	KM	0.70	0.70	0.	0.	0.	0.	0.59	0.59	0.59
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	0.	0.	0.	0.	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	13.	13.	0.	0.	0.	0.	25.	25.	25.
VOLUME*DISTANCE	1000 BCM*KM	60.10	60.10	0.	0.	0.	0.	110.30	110.30	110.30
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	0.	0.	0.	0.	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	3.	0.	0.	0.	0.	5.	5.	5.
SUBTOTAL	\$/1,000	16.	16.	0.	0.	0.	0.	29.	29.	29.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	85.80	85.80	0.	0.	0.	0.	187.00	187.00	187.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	0.	0.	0.	0.	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14.	14.	0.	0.	0.	0.	31.	31.	31.
VOLUME	1000 BCM	85.80	85.80	0.	0.	0.	0.	187.00	187.00	187.00
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	0.	0.	0.	0.	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	2.	0.	0.	0.	0.	5.	5.	5.
SUBTOTAL	\$/1,000	16.	16.	0.	0.	0.	0.	36.	36.	36.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	1.20	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	41.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	1.20	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	8.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	49.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	171.60	171.60	0.	0.	0.	0.	374.00	374.00	374.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	0.	0.	0.	0.	541.57	541.57	541.57
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	93.	93.	0.	0.	0.	0.	203.	203.	203.
VOLUME	1000 BCM	171.60	171.60	0.	0.	0.	0.	374.00	374.00	374.00
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	0.	0.	0.	0.	131.53	131.53	131.53
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	23.	23.	0.	0.	0.	0.	49.	49.	49.
SUBTOTAL	\$*1,000	116.	116.	0.	0.	0.	0.	252.	252.	252.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	171.60	171.60	0.	0.	0.	0.	374.00	374.00	374.00
HAUL DISTANCE	KM	0.50	0.50	0.	0.	0.	0.	1.57	1.57	1.57
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	0.	0.	0.	0.	178.56	178.56	178.56
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	15.	15.	0.	0.	0.	0.	105.	105.	105.
VOLUME*DISTANCE	1000 BCM*KM	85.80	85.80	0.	0.	0.	0.	587.20	587.20	587.20
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	0.	0.	0.	0.	34.00	34.00	34.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	3.	3.	0.	0.	0.	0.	20.	20.	20.
SUBTOTAL	\$*1,000	18.	18.	0.	0.	0.	0.	125.	125.	125.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	171.60	171.60	0.	0.	0.	0.	374.00	374.00	374.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	0.	0.	0.	0.	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	24.	24.	0.	0.	0.	0.	53.	53.	53.
VOLUME	1000 BCM	171.60	171.60	0.	0.	0.	0.	374.00	374.00	374.00
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	0.	0.	0.	0.	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	4.	0.	0.	0.	0.	9.	9.	9.
SUBTOTAL	\$/1,000	28.	28.	0.	0.	0.	0.	61.	61.	61.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	3.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	101.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	3.00	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	21.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	122.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 RWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	257.40	257.40	0.	0.	0.	0.	561.00	561.00	561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	0.	0.	0.	0.	211.57	211.57	211.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	54.	54.	0.	0.	0.	0.	119.	119.	119.
VOLUME	1000 BCM	257.40	257.40	0.	0.	0.	0.	561.00	561.00	561.00
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	0.	0.	0.	0.	47.66	47.66	47.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	12.	12.	0.	0.	0.	0.	27.	27.	27.
SUBTOTAL	\$/1,000	67.	67.	0.	0.	0.	0.	145.	145.	145.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	257.40	257.40	0.	0.	0.	0.	561.00	561.00	561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	0.	0.	0.	0.	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	111.	111.	0.	0.	0.	0.	241.	241.	241.
VOLUME	1000 BCM	257.40	257.40	0.	0.	0.	0.	561.00	561.00	561.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	0.	0.	0.	0.	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	30.	30.	0.	0.	0.	0.	65.	65.	65.
SUBTOTAL	\$/1,000	140.	140.	0.	0.	0.	0.	306.	306.	306.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	257.40	257.40	0.	0.	0.	0.	561.00	561.00	561.00
HAUL DISTANCE	KM	1.70	1.70	0.	0.	0.	0.	3.45	3.45	3.45
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	0.	0.	0.	0.	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	93.	93.	0.	0.	0.	0.	411.	411.	411.
VOLUME*DISTANCE	1000 BCM*KM	437.60	437.60	0.	0.	0.	0.	1935.50	1935.50	1935.50
UNIT PRICE 2	\$/1000 BCM*KM	131.26	131.26	0.	0.	0.	0.	131.26	131.26	131.26
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	57.	57.	0.	0.	0.	0.	254.	254.	254.
SUBTOTAL	\$/1,000	150.	150.	0.	0.	0.	0.	665.	665.	665.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	257.40	257.40	0.	0.	0.	0.	561.00	561.00	561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	0.	0.	0.	0.	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	39.	39.	0.	0.	0.	0.	84.	84.	84.
VOLUME	1000 BCM	257.40	257.40	0.	0.	0.	0.	561.00	561.00	561.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	0.	0.	0.	0.	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	6.	0.	0.	0.	0.	14.	14.	14.
SUBTOTAL	\$/1,000	45.	45.	0.	0.	0.	0.	98.	98.	98.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	6.81	1.81	1.81
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	230.	61.	61.
LENGTH	KM	0.	0.	0.	0.	0.	0.	6.81	1.81	1.81
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	47.	13.	13.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	277.	74.	74.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	25.70	25.70	0.	0.	0.	0.	56.10	56.10	56.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	0.	0.	0.	0.	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	58.82	71.71	0.	0.	0.	0.	120.02	148.16	176.29
OPERATING COST	\$/1,000	79.	91.	0.	0.	0.	0.	163.	191.	219.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	79.	91.	0.	0.	0.	0.	163.	191.	219.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	588.	601.	0.	0.	0.	0.	1922.	1638.	1667.
TOTAL CAPITAL COST	\$/1,000	153.	153.	0.	0.	0.	0.	550.	487.	487.
TOTAL COST	\$/1,000	741.	754.	0.	0.	0.	0.	2472.	2125.	2153.

	YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	19.00
OPERATING COST	\$/1000	135.	135.	135.	135.	302.	302.	302.	302.	321.
VOLUME	1000 BCM	220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	33.	33.	33.	33.	73.	73.	73.	73.	73.
SUBTOTAL	\$/1000	168.	168.	168.	168.	375.	375.	375.	375.	394.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
HAUL DISTANCE	KM	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	25.	25.	25.	25.	55.	55.	55.	55.	55.
VOLUME*DISTANCE	1000 BCM*KM	110.00	110.00	110.00	110.00	245.20	245.20	245.20	245.20	245.20
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	5.	5.	5.	5.	10.	10.	10.	10.	10.
SUBTOTAL	\$/1000	29.	29.	29.	29.	65.	65.	65.	65.	65.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	36.	36.	36.	36.	80.	80.	80.	80.	80.
VOLUME	1000 BCM	220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	6.	6.	6.	6.	13.	13.	13.	13.	13.
SUBTOTAL	\$/1000	42.	42.	42.	42.	93.	93.	93.	93.	93.

YEAR 14 15 16 17 18 19 20 21 22

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.50	0.	0.	0.	0.	0.	0.	0.50	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	0.	0.	0.	33825.11	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17.	0.	0.	0.	0.	0.	0.	17.	0.
DISTANCE	KM	0.50	0.	0.	0.	0.	0.	0.	0.50	0.
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	0.	0.	0.	6915.90	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	0.	0.	0.	0.	0.	0.	3.	0.
SUBTOTAL	\$/1,000	20.	0.	0.	0.	0.	0.	0.	20.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	238.	238.	238.	238.	531.	531.	531.	531.	531.
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	58.	58.	58.	58.	129.	129.	129.	129.	129.
SUBTOTAL	\$/1,000	296.	296.	296.	296.	660.	660.	660.	660.	660.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
HAUL DISTANCE	KM	1.29	1.29	1.29	1.29	0.88	0.88	0.88	2.92	2.92
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	101.	101.	101.	101.	154.	154.	154.	511.	511.
VOLUME*DISTANCE	1000 BCM*KM	567.60	567.60	567.60	567.60	863.10	863.10	863.10	2863.90	2863.90
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	19.	19.	19.	19.	29.	29.	29.	97.	97.
SUBTOTAL	\$/1,000	121.	121.	121.	121.	183.	183.	183.	609.	609.

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	62.	62.	62.	62.	138.	138.	138.	138.	138.
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	10.	10.	10.	10.	22.	22.	22.	22.	22.
SUBTOTAL	\$/1000	72.	72.	72.	72.	161.	161.	161.	161.	161.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.50	0.	0.	0.	0.50	0.	0.	3.67	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	33825.11	0.	0.	33825.11	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	17.	0.	0.	0.	17.	0.	0.	124.	0.
DISTANCE	KM	0.50	0.	0.	0.	0.50	0.	0.	3.67	0.
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	6915.90	0.	0.	6915.90	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	3.	0.	0.	0.	3.	0.	0.	25.	0.
SUBTOTAL	\$/1000	20.	0.	0.	0.	20.	0.	0.	150.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	140.	140.	140.	140.	311.	311.	311.	311.	311.
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	31.	31.	31.	31.	70.	70.	70.	70.	70.
SUBTOTAL	\$/1000	171.	171.	171.	171.	381.	381.	381.	381.	381.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	284.	284.	284.	284.	633.	633.	633.	633.	633.
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	76.	76.	76.	76.	169.	169.	169.	169.	169.
SUBTOTAL	\$/1000	360.	360.	360.	360.	802.	802.	802.	802.	802.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
HAUL DISTANCE	KM	3.66	3.66	3.66	3.66	4.95	4.95	4.95	3.44	3.44
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	513.	513.	513.	513.	1547.	1547.	1547.	1075.	1075.
VOLUME*DISTANCE	1000 BCM*KM	2415.60	2415.60	2415.60	2415.60	7282.40	7282.40	7282.40	5060.90	5060.90
UNIT PRICE 2	\$/1000 BCM*KM	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	317.	317.	317.	317.	956.	956.	956.	664.	664.
SUBTOTAL	\$/1000	830.	830.	830.	830.	2503.	2503.	2503.	1739.	1739.

	YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	99.	99.	99.	99.	222.	222.	222.	222.	222.
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	16.	16.	16.	36.	36.	36.	36.	36.
SUBTOTAL	\$/1,000	116.	116.	116.	116.	258.	258.	258.	258.	258.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	1.81	1.81	1.81	1.81	6.67	6.67	6.67	6.67	6.67
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	61.	61.	61.	61.	226.	226.	226.	226.	226.
LENGTH	KM	1.81	1.81	1.81	1.81	6.67	6.67	6.67	6.67	6.67
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	13.	13.	13.	13.	46.	46.	46.	46.	46.
SUBTOTAL	\$/1,000	74.	74.	74.	74.	272.	272.	272.	272.	272.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	66.00	66.00	66.00	66.00	147.10	147.10	147.10	147.10	147.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	209.39	242.49	275.59	308.69	432.89	506.66	580.43	583.60	657.37
OPERATING COST	\$/1,000	260.	293.	326.	359.	546.	620.	693.	697.	770.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	260.	293.	326.	359.	546.	620.	693.	697.	770.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	1989.	1988.	2021.	2054.	4761.	4818.	4892.	4921.	4873.
TOTAL CAPITAL COST	\$/1,000	591.	584.	584.	584.	1558.	1555.	1555.	1360.	1331.
TOTAL COST	\$/1,000	2579.	2572.	2605.	2638.	6319.	6373.	6446.	6281.	6204.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7841.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.18
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	19.00
OPERATING COST	\$*1,000	334.	334.	334.	334.	334.	155.	155.	155.	4843.
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7841.70
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	81.	81.	81.	81.	81.	37.	37.	37.	1168.
SUBTOTAL	\$*1,000	415.	415.	415.	415.	415.	192.	192.	192.	6011.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7841.70
HAUL DISTANCE	KM	0.50	0.50	0.50	0.50	0.50	1.00	1.00	2.50	0.61
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	61.	61.	61.	61.	61.	56.	56.	141.	1083.
VOLUME*DISTANCE	1000 BCM*KM	271.70	271.70	271.70	271.70	271.70	251.50	251.50	628.75	4821.35
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	12.	12.	12.	12.	12.	11.	11.	27.	205.
SUBTOTAL	\$*1,000	73.	73.	73.	73.	73.	67.	67.	168.	1287.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7841.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	89.	89.	89.	89.	89.	41.	41.	41.	1280.
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7841.70
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	14.	14.	14.	14.	14.	7.	7.	7.	209.
SUBTOTAL	\$*1,000	103.	103.	103.	103.	103.	48.	48.	48.	1489.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	1.00	0.	3.70	7.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	33825.11	33825.11
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	34.	0.	125.	257.
DISTANCE	KM	0.	0.	0.	0.	0.	1.00	0.	3.70	7.60
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	6915.90	6915.90
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	7.	0.	26.	53.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	41.	0.	151.	310.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15640.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	589.	589.	589.	589.	589.	265.	265.	265.	8470.
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15640.20
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	143.	143.	143.	143.	143.	64.	64.	64.	2057.
SUBTOTAL	\$*1,000	732.	732.	732.	732.	732.	329.	329.	329.	10527.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15640.20
HAUL DISTANCE	KM	3.00	3.00	3.00	3.00	3.00	0.70	0.70	0.70	1.93
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	582.	582.	582.	582.	582.	61.	61.	61.	5384.
VOLUME*DISTANCE	1000 BCM*KM	3260.40	3260.40	3260.40	3260.40	3260.40	342.00	342.00	342.00	30154.30
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	111.	111.	111.	111.	111.	12.	12.	12.	1025.
SUBTOTAL	\$*1,000	693.	693.	693.	693.	693.	73.	73.	73.	6410.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15640.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	153.	153.	153.	153.	153.	69.	69.	69.	2204.
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15640.20
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	25.	25.	25.	25.	25.	11.	11.	11.	358.
SUBTOTAL	\$/1,000	178.	178.	178.	178.	178.	80.	80.	80.	2563.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.50	0.	0.	0.70	0.	0.	9.37
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	33825.11	0.	0.	33825.11	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	17.	0.	0.	24.	0.	0.	317.
DISTANCE	KM	0.	0.	0.50	0.	0.	0.70	0.	0.	9.37
UNIT PRICE 2	\$/KM	0.	0.	6915.90	0.	0.	6915.90	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	3.	0.	0.	5.	0.	0.	65.
SUBTOTAL	\$/1,000	0.	0.	20.	0.	0.	29.	0.	0.	382.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23481.90
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		345.	345.	345.	345.	345.	157.	157.	157.	4968.
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23481.90
UNIT PRICE 2	\$/1000 BCM		47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		78.	78.	78.	78.	78.	35.	35.	35.	1119.
SUBTOTAL	\$/1,000		423.	423.	423.	423.	423.	192.	192.	192.	6087.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23481.90
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		701.	701.	701.	701.	701.	318.	318.	318.	10100.
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23481.90
UNIT PRICE 2	\$/1000 BCM		115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		188.	188.	188.	188.	188.	85.	85.	85.	2701.
SUBTOTAL	\$/1,000		889.	889.	889.	889.	889.	403.	403.	403.	12801.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23481.90
HAUL DISTANCE	KM		2.71	2.71	2.71	2.71	2.71	1.50	1.50	1.50	3.21
UNIT PRICE 1	\$/1000 BCM*KM		212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		938.	938.	938.	938.	938.	236.	236.	236.	15992.
VOLUME*DISTANCE	1000 BCM*KM		4417.80	4417.80	4417.80	4417.80	4417.80	1110.15	1110.15	1110.15	75290.95
UNIT PRICE 2	\$/1000 BCM*KM		131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		580.	580.	580.	580.	580.	146.	146.	146.	9883.
SUBTOTAL	\$/1,000		1518.	1518.	1518.	1518.	1518.	382.	382.	382.	25875.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 23 24 25 26 27 28 29 30 TOTALS

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23481.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	245.	245.	245.	245.	245.	111.	111.	111.	3536.
VOLUME	1000 BCM	1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23481.90
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	40.	40.	40.	40.	40.	18.	18.	18.	576.
SUBTOTAL	\$/1,000	285.	285.	285.	285.	285.	130.	130.	130.	4111.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	7.63	7.63	7.63	7.63	7.63	1.00	0.	0.	91.87
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	258.	258.	258.	258.	258.	34.	0.	0.	3108.
LENGTH	KM	7.63	7.63	7.63	7.63	7.63	1.00	0.	0.	91.87
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	53.	53.	53.	53.	53.	7.	0.	0.	635.
SUBTOTAL	\$/1,000	311.	311.	311.	311.	311.	41.	0.	0.	3743.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	163.00	163.00	163.00	163.00	163.00	74.00	74.00	74.00	2347.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	739.11	820.86	902.60	984.34	1066.09	1103.20	1140.31	1177.42	12420.88
OPERATING COST	\$/1,000	864.	946.	1028.	1110.	1191.	1160.	1197.	1234.	14224.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	864.	946.	1028.	1110.	1191.	1160.	1197.	1234.	14224.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	5160.	5242.	5341.	5405.	5487.	2720.	2666.	2913.	75766.
TOTAL CAPITAL COST	\$/1,000	1324.	1324.	1327.	1324.	1324.	445.	426.	468.	20054.
TOTAL COST	\$/1,000	6484.	6565.	6668.	6729.	6811.	3165.	3092.	3381.	95820.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE											
NO. OF PERSONS	PERSONS		4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
6.2 PLANNING											
NO. OF PERSONS	PERSONS		4.00	7.00	18.00	36.00	54.00	72.00	72.00	72.00	72.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
6.3 MINING											
NO. OF PERSONS	PERSONS		3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/PERSON		330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON		330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.

6.3 MINING

NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	14.00	14.00	14.00	14.00	14.00	1989.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	5.00	5.00	5.00	5.00	5.00	1891.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.

YEAR → -5 -4 -3 -2 -1 1 2 3 4

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST \$*1,000	0.	0.	0.	773.	831.	887.	887.	887.	887.
CAPITAL COST \$*1,000	0.	4562.	6272.	0.	1710.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	4562.	6272.	773.	2541.	887.	887.	887.	887.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST \$*1,000	2416.	1543.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
CAPITAL COST \$*1,000	412.	271.	256.	370.	246.	304.	485.	376.	219.
SUBTOTAL \$*1,000	2828.	1813.	1544.	2334.	1599.	1955.	3103.	2414.	1412.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST \$*1,000	0.	0.	0.	6426.	7836.	13706.	20171.	20351.	20928.
CAPITAL COST \$*1,000	9847.	9847.	37900.	52517.	35991.	11971.	13118.	0.	4495.
SUBTOTAL \$*1,000	9847.	9847.	37900.	58943.	43828.	25677.	33290.	20351.	25423.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST \$*1,000	42.	100.	798.	4723.	4490.	3986.	5245.	5797.	6218.
CAPITAL COST \$*1,000	7.	24.	4397.	4385.	5950.	4207.	6575.	4843.	2186.
SUBTOTAL \$*1,000	49.	124.	5195.	9108.	10440.	8193.	11820.	10640.	8404.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST \$*1,000	0.	0.	0.	0.	0.	581.	494.	506.	517.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	156.	136.	136.	136.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	737.	630.	642.	653.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST \$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	2788.	2334.	3828.	17310.	19677.	27660.	36265.	36427.	36592.
TOTAL CAPITAL COST \$*1,000	10265.	14704.	48825.	57271.	43897.	16638.	20314.	5356.	7035.
TOTAL COST \$*1,000	13054.	17038.	52653.	74582.	63574.	44298.	56578.	41782.	43627.

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	887.	887.	887.	887.	887.	887.	887.	887.	887.	887.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	887.	887.	887.	887.	887.	887.	887.	887.	887.	887.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
CAPITAL COST	\$*1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
SUBTOTAL	\$*1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	21086.	21058.	20123.	19723.	19184.	18471.	18430.	18810.	19109.
CAPITAL COST	\$*1,000	0.	723.	0.	0.	2877.	0.	0.	0.	723.
SUBTOTAL	\$*1,000	21086.	21781.	20123.	19723.	22061.	18471.	18430.	18810.	19832.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	8968.	9775.	9878.	9609.	27293.	27248.	24682.	24764.	25025.
CAPITAL COST	\$*1,000	2940.	10782.	10766.	9066.	916.	915.	302.	305.	315.
SUBTOTAL	\$*1,000	11908.	20557.	20644.	18675.	28209.	28163.	24984.	25069.	25340.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	588.	601.	0.	0.	0.	0.	1922.	1638.	1667.
CAPITAL COST	\$*1,000	153.	153.	0.	0.	0.	0.	550.	487.	487.
SUBTOTAL	\$*1,000	741.	754.	0.	0.	0.	0.	2472.	2125.	2153.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	39111.	39799.	38551.	37762.	55576.	54293.	53410.	53517.	53941.
TOTAL CAPITAL COST	\$*1,000	3226.	11772.	10910.	9193.	4054.	1070.	969.	895.	1598.
TOTAL COST	\$*1,000	42337.	51571.	49461.	46955.	59630.	55363.	54379.	54412.	55538.

YEAR 14 15 16 17 18 19 20 21 22

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	887.	887.	887.	887.	887.	887.	887.	887.	887.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	887.	887.	887.	887.	887.	887.	887.	887.	887.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	321.	152.	219.	226.	314.	487.	510.	471.	781.
CAPITAL COST	\$*1,000	58.	26.	39.	40.	56.	86.	93.	87.	145.
SUBTOTAL	\$*1,000	379.	178.	258.	265.	370.	573.	603.	558.	926.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	19151.	18983.	18967.	18923.	19077.	19091.	18986.	19298.	19340.
CAPITAL COST	\$*1,000	3889.	0.	0.	0.	0.	2877.	723.	500.	0.
SUBTOTAL	\$*1,000	23040.	18983.	18967.	18923.	19077.	21968.	19709.	19798.	19340.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	24352.	24334.	24213.	24125.	23982.	23976.	23910.	23848.	23848.
CAPITAL COST	\$*1,000	249.	230.	230.	228.	222.	222.	219.	217.	217.
SUBTOTAL	\$*1,000	24601.	24565.	24442.	24352.	24204.	24198.	24130.	24065.	24064.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	1989.	1988.	2021.	2054.	4761.	4818.	4892.	4921.	4873.
CAPITAL COST	\$*1,000	591.	584.	584.	584.	1558.	1555.	1555.	1360.	1331.
SUBTOTAL	\$*1,000	2579.	2572.	2605.	2638.	6319.	6373.	6446.	6281.	6204.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	53547.	53192.	53155.	53063.	55869.	56108.	56033.	56274.	56577.
TOTAL CAPITAL COST	\$*1,000	4786.	841.	852.	851.	1837.	4740.	2590.	2164.	1693.
TOTAL COST	\$*1,000	58334.	54033.	54007.	53914.	57706.	60848.	58623.	58437.	58269.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 RWE & 2 D/L)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	887.	887.	887.	37.	37.	37.	37.	37.	23964.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	12544.
SUBTOTAL	\$*1,000	887.	887.	887.	37.	37.	37.	37.	37.	36508.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	26233.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	4794.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	31027.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	19455.	19441.	11474.	0.	0.	0.	0.	0.	487596.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	187998.
SUBTOTAL	\$*1,000	19455.	19441.	11474.	0.	0.	0.	0.	0.	675594.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	23841.	23834.	21089.	0.	0.	0.	0.	0.	483995.
CAPITAL COST	\$*1,000	217.	216.	179.	0.	0.	0.	0.	0.	71527.
SUBTOTAL	\$*1,000	24057.	24050.	21269.	0.	0.	0.	0.	0.	555522.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	5160.	5242.	5341.	5405.	5487.	2720.	2666.	2913.	75766.
CAPITAL COST	\$*1,000	1324.	1324.	1327.	1324.	1324.	445.	426.	468.	20054.
SUBTOTAL	\$*1,000	6484.	6565.	6668.	6729.	6811.	3165.	3092.	3381.	95820.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	56191.	56253.	45639.	6553.	6635.	3868.	3814.	4061.	1285674.
TOTAL CAPITAL COST	\$*1,000	1540.	1540.	1506.	1324.	1324.	445.	426.	468.	296917.
TOTAL COST	\$*1,000	57731.	57793.	47146.	7877.	7959.	4313.	4240.	4529.	1582591.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	0.	0.	0.	528.	516.	501.	455.	414.	376.
CAPITAL COST	\$*1,000	0.	3770.	4712.	0.	1062.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	3770.	4712.	528.	1578.	501.	455.	414.	376.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	2196.	1275.	967.	1341.	840.	932.	1344.	951.	506.
CAPITAL COST	\$*1,000	374.	224.	193.	252.	153.	172.	249.	175.	93.
SUBTOTAL	\$*1,000	2571.	1499.	1160.	1594.	993.	1104.	1593.	1126.	599.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	0.	0.	0.	4389.	4866.	7737.	10351.	9494.	8875.
CAPITAL COST	\$*1,000	8952.	8138.	28475.	35870.	22348.	6757.	6732.	0.	1906.
SUBTOTAL	\$*1,000	8952.	8138.	28475.	40259.	27214.	14494.	17083.	9494.	10782.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	38.	83.	600.	3226.	2788.	2250.	2691.	2704.	2637.
CAPITAL COST	\$*1,000	6.	20.	3303.	2995.	3694.	2375.	3374.	2260.	927.
SUBTOTAL	\$*1,000	44.	103.	3903.	6221.	6482.	4625.	6065.	4964.	3564.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	328.	254.	236.	219.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	88.	70.	63.	58.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	416.	323.	299.	277.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	2535.	1929.	2876.	11823.	12218.	15613.	18610.	16993.	15519.
TOTAL CAPITAL COST	\$*1,000	9332.	12152.	36683.	39117.	27257.	9392.	10424.	2498.	2984.
TOTAL COST	\$*1,000	11867.	14081.	39559.	50940.	39474.	25005.	29034.	19492.	18502.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 RWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	342.	311.	283.	257.	234.	212.	193.	175.	160.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	342.	311.	283.	257.	234.	212.	193.	175.	160.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	283.	221.	260.	201.	359.	201.	139.	113.	73.
CAPITAL COST	\$*1,000	51.	40.	46.	37.	69.	37.	25.	21.	13.
SUBTOTAL	\$*1,000	334.	261.	305.	238.	428.	238.	165.	133.	86.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	8130.	7381.	6412.	5713.	5052.	4422.	4011.	3721.	3437.
CAPITAL COST	\$*1,000	0.	253.	0.	0.	758.	0.	0.	0.	130.
SUBTOTAL	\$*1,000	8130.	7634.	6412.	5713.	5809.	4422.	4011.	3721.	3567.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	3458.	3426.	3147.	2783.	7187.	6523.	5372.	4899.	4501.
CAPITAL COST	\$*1,000	1133.	3779.	3430.	2626.	241.	219.	66.	60.	57.
SUBTOTAL	\$*1,000	4591.	7205.	6578.	5409.	7428.	6742.	5437.	4960.	4558.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	227.	211.	0.	0.	0.	0.	418.	324.	300.
CAPITAL COST	\$*1,000	59.	54.	0.	0.	0.	0.	120.	96.	88.
SUBTOTAL	\$*1,000	286.	264.	0.	0.	0.	0.	538.	420.	387.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	15079.	13949.	12283.	10938.	14635.	12997.	11624.	10588.	9702.
TOTAL CAPITAL COST	\$*1,000	1244.	4126.	3476.	2663.	1067.	256.	211.	177.	287.
TOTAL COST	\$*1,000	16323.	18075.	15760.	13601.	15702.	13253.	11834.	10765.	9989.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 BWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	145.	132.	120.	109.	99.	90.	82.	74.	68.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	145.	132.	120.	109.	99.	90.	82.	74.	68.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	52.	23.	30.	28.	35.	49.	47.	40.	60.
CAPITAL COST	\$*1,000	9.	4.	5.	5.	6.	9.	9.	7.	11.
SUBTOTAL	\$*1,000	62.	26.	35.	33.	41.	58.	56.	47.	71.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	3131.	2822.	2563.	2325.	2130.	1938.	1752.	1619.	1475.
CAPITAL COST	\$*1,000	636.	0.	0.	0.	0.	292.	67.	42.	0.
SUBTOTAL	\$*1,000	3767.	2822.	2563.	2325.	2130.	2230.	1819.	1661.	1475.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	3982.	3617.	3272.	2964.	2678.	2434.	2207.	2001.	1819.
CAPITAL COST	\$*1,000	41.	34.	31.	28.	25.	23.	20.	18.	17.
SUBTOTAL	\$*1,000	4022.	3651.	3303.	2992.	2703.	2457.	2227.	2019.	1836.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	325.	295.	273.	252.	532.	489.	451.	413.	372.
CAPITAL COST	\$*1,000	97.	87.	79.	72.	174.	158.	144.	114.	102.
SUBTOTAL	\$*1,000	422.	382.	352.	324.	706.	647.	595.	527.	473.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	8755.	7907.	7183.	6519.	6239.	5696.	5172.	4722.	4316.
TOTAL CAPITAL COST	\$*1,000	783.	125.	115.	105.	205.	481.	239.	182.	129.
TOTAL COST	\$*1,000	9538.	8032.	7298.	6623.	6444.	6178.	5411.	4903.	4445.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (1 RWE & 2 D/L)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	62.	56.	51.	2.	2.	2.	1.	1.	6051.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	9544.
SUBTOTAL	\$*1,000	62.	56.	51.	2.	2.	2.	1.	1.	15596.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	12564.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	2288.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	14853.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	1349.	1226.	658.	0.	0.	0.	0.	0.	116978.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	121355.
SUBTOTAL	\$*1,000	1349.	1226.	658.	0.	0.	0.	0.	0.	238333.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	1653.	1502.	1209.	0.	0.	0.	0.	0.	87652.
CAPITAL COST	\$*1,000	15.	14.	10.	0.	0.	0.	0.	0.	30841.
SUBTOTAL	\$*1,000	1668.	1516.	1219.	0.	0.	0.	0.	0.	118494.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	358.	330.	306.	282.	260.	117.	104.	104.	7780.
CAPITAL COST	\$*1,000	92.	83.	76.	69.	63.	19.	17.	17.	2155.
SUBTOTAL	\$*1,000	450.	414.	382.	351.	323.	136.	121.	120.	9936.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	475.	432.	392.	58.	53.	48.	43.	40.	46567.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	475.	432.	392.	58.	53.	48.	43.	40.	46567.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	3896.	3546.	2616.	341.	314.	167.	149.	145.	277594.
TOTAL CAPITAL COST	\$*1,000	107.	97.	86.	69.	63.	19.	17.	17.	166184.
TOTAL COST	\$*1,000	4003.	3643.	2702.	410.	377.	186.	166.	161.	443778.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

8.0

60,000 BPCD

Bucket Wheel Mine

Minimum Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	617.00	617.00	617.00	617.00	617.00	617.00
OPERATING COST \$*1,000		0.	0.	0.	617.	617.	617.	617.	617.	617.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	4205.00	4204.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	4205.	4204.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	4205.	4204.	617.	617.	617.	617.	617.	617.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		0.	0.	0.	114.00	172.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	114.	172.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	114.00	0.	114.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1710.	0.	1710.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	1710.	114.	1882.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	731.	789.	845.	845.	845.	845.
TOTAL CAPITAL COST \$*1,000		0.	4205.	5914.	0.	1710.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	4205.	5914.	731.	2499.	845.	845.	845.	845.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		617.00	617.00	617.00	617.00	617.00	617.00	617.00	617.00	617.00
OPERATING COST \$*1,000		617.	617.	617.	617.	617.	617.	617.	617.	617.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		617.	617.	617.	617.	617.	617.	617.	617.	617.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		845.	845.	845.	845.	845.	845.	845.	845.	845.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		845.	845.	845.	845.	845.	845.	845.	845.	845.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		617.00	617.00	617.00	617.00	617.00	617.00	617.00	617.00	617.00
OPERATING COST \$*1,000		617.	617.	617.	617.	617.	617.	617.	617.	617.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	617.	617.	617.	617.	617.	617.	617.	617.	617.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	228.	228.	228.	228.	228.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		845.	845.	845.	845.	845.	845.	845.	845.	845.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		845.	845.	845.	845.	845.	845.	845.	845.	845.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		617.00	617.00	555.00	0.	0.	0.	0.	0.	16597.00
OPERATING COST \$*1,000		617.	617.	555.	0.	0.	0.	0.	0.	16597.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8409.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8409.
SUBTOTAL	\$*1,000	617.	617.	555.	0.	0.	0.	0.	0.	25006.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	37.00	37.00	37.00	37.00	37.00	6171.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	37.	37.	37.	37.	37.	6171.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	228.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3420.
SUBTOTAL	\$*1,000	228.	228.	228.	37.	37.	37.	37.	37.	9591.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		845.	845.	783.	37.	37.	37.	37.	37.	22768.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	11829.
TOTAL COST \$*1,000		845.	845.	783.	37.	37.	37.	37.	37.	34597.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING											
AREA	HECTARES		663.70	703.00	82.60	116.90	98.00	79.90	54.50	54.90	58.60
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		841.	891.	105.	148.	124.	101.	69.	70.	74.
AREA	HECTARES		663.70	703.00	82.60	116.90	98.00	79.90	54.50	54.90	58.60
UNIT PRICE 2	\$/HECTARE		196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		131.	138.	16.	23.	19.	16.	11.	11.	12.
SUBTOTAL	\$/1,000		971.	1029.	121.	171.	143.	117.	80.	80.	86.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		237.	69.	60.	73.	124.	101.	62.	41.	38.
DITCH VOLUME	1000 BCM		128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
UNIT PRICE 2	\$/1000 BCM		300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		38.	11.	10.	12.	20.	16.	10.	7.	6.
SUBTOTAL	\$/1,000		276.	80.	70.	85.	144.	118.	73.	48.	45.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		508.	415.	442.	442.	410.	529.	979.	788.	444.
VOLUME	1000 BCM		596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM		207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		124.	101.	107.	107.	100.	129.	238.	191.	108.
SUBTOTAL	\$/1,000		632.	516.	549.	549.	509.	658.	1217.	979.	552.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
HAUL DISTANCE	KM	2.50	1.50	2.35	4.40	3.85	3.45	3.20	3.00	2.95
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	374.	183.	306.	572.	465.	538.	923.	696.	386.
VOLUME*DISTANCE	1000 BCM*KM	1313.10	731.25	1219.10	2282.50	1852.80	2145.50	3680.00	2775.00	1539.50
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	64.	36.	59.	111.	90.	104.	179.	135.	75.
SUBTOTAL	\$/1,000	438.	219.	365.	684.	555.	643.	1102.	831.	461.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	286.	234.	249.	249.	231.	298.	551.	443.	250.
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	17.	18.	18.	17.	22.	40.	32.	18.
SUBTOTAL	\$/1,000	307.	251.	267.	267.	247.	320.	591.	475.	268.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	0.	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	169.	132.	127.	480.	0.	83.	34.	0.	0.
LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	0.	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	35.	27.	26.	98.	0.	17.	7.	0.	0.
SUBTOTAL	\$/1,000	204.	159.	153.	579.	0.	100.	41.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	2416.	1923.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
TOTAL CAPITAL COST	\$/1,000	412.	330.	237.	370.	246.	304.	485.	376.	219.
TOTAL COST	\$/1,000	2828.	2253.	1524.	2334.	1599.	1955.	3103.	2414.	1412.

	YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING										
AREA	HECTARES	56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	72.	72.	222.	73.	66.	53.	52.	51.	58.
AREA	HECTARES	56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	11.	11.	34.	11.	10.	8.	8.	8.	9.
SUBTOTAL	\$/1,000	83.	84.	256.	84.	77.	61.	61.	59.	67.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	41.	40.	44.	43.	40.	37.	25.	20.	7.
DITCH VOLUME	1000 BCM	22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	6.	7.	7.	7.	6.	4.	3.	1.
SUBTOTAL	\$/1,000	48.	46.	51.	50.	47.	42.	30.	23.	9.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	255.	221.	237.	229.	290.	269.	231.	210.	146.
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	62.	54.	58.	56.	71.	65.	56.	51.	36.
SUBTOTAL	\$/1,000	318.	275.	294.	284.	361.	334.	288.	261.	182.

	YEAR	5	6	7	8	9	10	11	12	13
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
HAUL DISTANCE	KM	2.80	2.65	2.25	2.70	3.35	3.15	2.95	2.75	2.55
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	211.	172.	157.	182.	286.	249.	201.	170.	110.
VOLUME*DISTANCE	1000 BCM*KM	840.00	687.30	625.80	725.60	1141.10	994.20	802.00	678.90	438.30
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	41.	33.	30.	35.	56.	48.	39.	33.	21.
SUBTOTAL	\$/1,000	252.	206.	187.	217.	342.	298.	240.	203.	131.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	144.	124.	133.	129.	163.	151.	130.	118.	82.
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	10.	9.	10.	9.	12.	11.	9.	9.	6.
SUBTOTAL	\$/1,000	154.	133.	143.	138.	175.	162.	140.	127.	88.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	33825.11	33825.11	33825.11	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10.	0.	22.	39.	518.	79.	0.	0.	0.
LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	6915.90	6915.90	6915.90	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	0.	4.	8.	106.	16.	0.	0.	0.
SUBTOTAL	\$/1,000	12.	0.	26.	47.	623.	96.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
TOTAL CAPITAL COST	\$/1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
TOTAL COST	\$/1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.

	YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING										
AREA	HECTARES	37.40	35.50	39.90	42.40	36.70	94.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	47.	45.	51.	54.	46.	119.	0.	0.	0.
AREA	HECTARES	37.40	35.50	39.90	42.40	36.70	94.00	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	7.	8.	8.	7.	19.	0.	0.	0.
SUBTOTAL	\$/1,000	55.	52.	58.	62.	54.	138.	0.	0.	0.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	12.	11.	15.	22.	30.	30.	46.	0.	0.
DITCH VOLUME	1000 BCM	6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	2.	3.	4.	5.	5.	7.	0.	0.
SUBTOTAL	\$/1,000	14.	13.	18.	26.	35.	35.	53.	0.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	114.	43.	69.	69.	114.	165.	231.	242.	349.
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	28.	10.	17.	17.	28.	40.	56.	59.	85.
SUBTOTAL	\$/1,000	142.	53.	86.	86.	142.	205.	288.	301.	433.

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
HAUL DISTANCE	KM	2.45	2.30	2.20	2.05	1.75	1.65	1.50	1.30	2.30
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	83.	29.	45.	42.	59.	80.	102.	93.	236.
VOLUME*DISTANCE	1000 BCM*KM	329.20	115.00	178.75	166.60	235.20	319.70	407.80	369.70	941.60
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	6.	9.	8.	11.	16.	20.	18.	46.
SUBTOTAL	\$/1,000	99.	34.	54.	50.	70.	96.	122.	111.	282.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	64.	24.	39.	39.	64.	93.	130.	136.	196.
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5.	2.	3.	3.	5.	7.	9.	10.	14.
SUBTOTAL	\$/1,000	69.	26.	42.	42.	69.	100.	140.	146.	210.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	321.	152.	219.	226.	314.	487.	510.	471.	781.
TOTAL CAPITAL COST	\$/1,000	58.	26.	39.	40.	56.	86.	93.	87.	145.
TOTAL COST	\$/1,000	379.	178.	258.	265.	370.	573.	603.	558.	926.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	2766.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	3504.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	2766.10
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	545.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4049.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	686.45
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1270.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	686.45
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	206.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1476.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8442.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2053.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	10495.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	2.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	6951.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	27535.50
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1341.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8292.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4754.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	343.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5097.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1693.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	346.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2039.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	26614.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4833.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	31447.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN RWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	22050.00	33009.00	33829.00	34335.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	177.64	177.64	177.64	177.64	177.64	177.64
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1146.	1581.	3917.	5864.	6009.	6099.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	7591.00	7590.00	22773.00	15181.00	15182.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7591.	7590.	22773.	15181.	15182.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	7591.	7590.	22773.	16327.	16763.	3917.	5864.	6009.	6099.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	22050.00	33009.00	33829.00	34335.00
DISTANCE	M	0.	0.	0.	6450.00	9150.00	13220.00	17680.00	17680.00	17680.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	803.	1572.	5627.	11265.	11544.	11717.
CONV. INCREASE	M	0.	0.	0.	6450.00	2700.00	4070.00	4460.00	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	3610.44	3610.44	3610.44	3610.44	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	23287.	9748.	14694.	16103.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	24090.	11320.	20321.	27367.	11544.	11717.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	11059.00	13554.00	14105.00	13898.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	121.28	121.28	121.28	121.28	121.28	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	782.	1079.	1341.	1644.	1711.	1686.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4660.00	4660.00	4660.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4660.	4660.	4660.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4660.	4660.	4660.	782.	1079.	1341.	1644.	1711.	1686.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00
OPERATING COST	\$/1,000	0.	0.	0.	3595.	3595.	3595.	3595.	3595.	3595.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	6858.00	0.	0.	0.	0.	2623.00
CAPITAL COST	\$/1,000	0.	0.	0.	6858.	0.	0.	0.	0.	2623.
SUBTOTAL	\$/1,000	0.	0.	0.	10453.	3595.	3595.	3595.	3595.	6218.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	6326.	7827.	14480.	22367.	22859.	23097.
TOTAL CAPITAL COST	\$/1,000	12251.	12250.	27433.	45326.	24930.	14694.	16103.	0.	2623.
TOTAL COST	\$/1,000	12251.	12250.	27433.	51652.	32757.	29174.	38470.	22859.	25720.

	YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	34369.00	34209.00	32145.00	31311.00	30978.00	30252.00	30235.00	30190.00	30123.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	6105.	6077.	5710.	5562.	5503.	5374.	5371.	5363.	5351.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	6105.	6077.	5710.	5562.	5503.	5374.	5371.	5363.	5351.

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	34369.00	34209.00	32145.00	31311.00	30978.00	30252.00	30235.00	30190.00	30123.00
DISTANCE	M	16630.00	16580.00	16530.00	16530.00	15370.00	14260.00	14190.00	14890.00	16250.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	11032.	10948.	10256.	9990.	9190.	8327.	8281.	8677.	9448.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	11032.	10948.	10256.	9990.	9190.	8327.	8281.	8677.	9448.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	13655.00	13607.00	12985.00	12734.00	12441.00	11803.00	11788.00	11254.00	10455.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1656.	1650.	1575.	1544.	1509.	1431.	1430.	1365.	1268.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1656.	1650.	1575.	1544.	1509.	1431.	1430.	1365.	1268.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00
OPERATING COST	\$/1,000	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	723.00	0.	0.	2623.00	0.	0.	0.	723.00
CAPITAL COST	\$/1,000	0.	723.	0.	0.	2623.	0.	0.	0.	723.
SUBTOTAL	\$/1,000	3595.	4318.	3595.	3595.	6218.	3595.	3595.	3595.	4318.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	22388.	22270.	21136.	20692.	19797.	18727.	18677.	19000.	19662.
TOTAL CAPITAL COST	\$/1,000	0.	723.	0.	0.	2623.	0.	0.	0.	723.
TOTAL COST	\$/1,000	22388.	22993.	21136.	20692.	22420.	18727.	18677.	19000.	20385.

	YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	29972.00	29416.00	29299.00	29213.00	29163.00	29121.00	28887.00	28816.00	29067.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	5324.	5225.	5205.	5189.	5180.	5173.	5131.	5119.	5163.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	5324.	5225.	5205.	5189.	5180.	5173.	5131.	5119.	5163.

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	29972.00	29416.00	29299.00	29213.00	29163.00	29121.00	28887.00	28816.00	29067.00
DISTANCE	M	16250.00	16250.00	16250.00	16250.00	16950.00	17000.00	17000.00	17850.00	17850.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9401.	9227.	9190.	9163.	9541.	9556.	9479.	9928.	10015.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	170.00	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	3610.44	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	614.	0.
SUBTOTAL	\$/1,000	9401.	9227.	9190.	9163.	9541.	9556.	9479.	10542.	10015.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	10334.00	9889.00	9795.00	10122.00	10313.00	10326.00	10397.00	10418.00	10685.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1253.	1199.	1188.	1228.	1251.	1252.	1261.	1263.	1296.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1253.	1199.	1188.	1228.	1251.	1252.	1261.	1263.	1296.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00
OPERATING COST	\$/1,000	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3635.00	0.	0.	0.	0.	2623.00	723.00	0.	0.
CAPITAL COST	\$/1,000	3635.	0.	0.	0.	0.	2623.	723.	0.	0.
SUBTOTAL	\$/1,000	7230.	3595.	3595.	3595.	3595.	6218.	4318.	3595.	3595.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	19573.	19246.	19177.	19175.	19567.	19576.	19466.	19906.	20069.
TOTAL CAPITAL COST	\$/1,000	3635.	0.	0.	0.	0.	2623.	723.	614.	0.
TOTAL COST	\$/1,000	23208.	19246.	19177.	19175.	19567.	22199.	20189.	20519.	20069.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	29630.00	24670.00	11883.00	0.	0.	0.	0.	0.	751522.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.64	177.64	177.64	0.	0.	0.	0.	0.	177.64
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	5263.	4382.	2111.	0.	0.	0.	0.	0.	133499.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	68317.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	68317.
SUBTOTAL	\$/1,000	5263.	4382.	2111.	0.	0.	0.	0.	0.	201816.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	29630.00	24670.00	11883.00	0.	0.	0.	0.	0.	751522.00
DISTANCE	M	17850.00	17850.00	13510.00	0.	0.	0.	0.	0.	16268.14
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.	0.	0.	0.	0.	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10209.	8500.	3099.	0.	0.	0.	0.	0.	235984.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	17850.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	3610.44
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	64446.
SUBTOTAL	\$/1,000	10209.	8500.	3099.	0.	0.	0.	0.	0.	300430.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	11281.00	6322.00	1375.00	0.	0.	0.	0.	0.	289945.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	121.28	121.28	121.28	0.	0.	0.	0.	0.	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1368.	767.	167.	0.	0.	0.	0.	0.	35164.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	13980.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	13980.
SUBTOTAL	\$/1,000	1368.	767.	167.	0.	0.	0.	0.	0.	49144.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3595.00	3595.00	3235.00	0.	0.	0.	0.	0.	96705.00
OPERATING COST	\$/1,000	3595.	3595.	3235.	0.	0.	0.	0.	0.	96705.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20531.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20531.
SUBTOTAL	\$/1,000	3595.	3595.	3235.	0.	0.	0.	0.	0.	117236.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	20435.	17244.	8611.	0.	0.	0.	0.	0.	501352.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	167274.
TOTAL COST	\$/1,000	20435.	17244.	8611.	0.	0.	0.	0.	0.	668626.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	73.60	16.00	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	1239.20	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	91.	20.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	73.60	16.00	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	300.95	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	22.	5.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	113.	25.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	33.40	0.	614.50	580.20	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	0.	1266.82	1266.82	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	42.	0.	778.	735.	0.	0.	0.	0.	0.
AREA	HECTARES	33.40	0.	614.50	580.20	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	0.	196.85	196.85	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	0.	121.	114.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	49.	0.	899.	849.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	2182.00	2182.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	4255.	4255.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	4255.	4255.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	24943.00	44151.00	44761.00	46379.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	78.74	47.29	48.01	67.51
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	1964.	2088.	2149.	3131.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	4116.00	4116.00	4117.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	4116.	4116.	4117.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	4116.	4116.	4117.	1964.	2088.	2149.	3131.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	5600.00	3600.00	3400.00	3600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	692.	445.	420.	445.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	2152.50	3923.00	3922.88	1667.38
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	2153.	3923.	3923.	1667.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	2844.	4368.	4343.	2112.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	5721.00	16439.00	16916.00	17450.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	388.	1116.	1148.	1185.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	388.	1116.	1148.	1185.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	814.00	814.00
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	814.	814.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	1950.00	1949.00	1949.00	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	1950.	1949.	1949.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	1950.	1949.	1949.	814.	814.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	6.50	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	25000.00	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	52.50	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	215.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	215.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		0.	0.	0.	0.	0.	570.00	1010.00	1024.00	1061.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1313.36	1313.36	1410.27	1410.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	749.	1326.	1444.	1496.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	570.00	1010.00	1024.00	1061.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	204.00	204.00	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	116.	206.	233.	241.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	865.	1533.	1677.	1737.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	33825.11	0.	33825.11	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	34.	0.	129.	0.	0.
LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	6915.90	0.	6915.90	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	7.	0.	26.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	41.	0.	155.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		42.	91.	798.	4990.	4289.	3793.	5104.	5976.	7071.
TOTAL CAPITAL COST \$*1,000		7.	22.	4242.	4230.	6074.	4218.	6319.	4156.	1908.
TOTAL COST \$*1,000		49.	113.	5040.	9220.	10363.	8011.	11423.	10131.	8979.

		YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	13710.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	753.07
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	10325.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	13710.00
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	174.50
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2392.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	12717.

YEAR 5 6 7 8 9 10 11 12 13

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	47009.00	46755.00	43481.00	42158.00	42067.00	41868.00	41864.00	42973.00	44635.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3174.	3156.	2935.	2846.	2840.	2827.	2826.	2901.	3013.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3174.	3156.	2935.	2846.	2840.	2827.	2826.	2901.	3013.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	3300.00	3100.00	2300.00	1900.00	1500.00	1300.00	1200.00	1100.00	500.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	408.	383.	284.	235.	185.	161.	148.	136.	62.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	1667.38	1667.25	1667.25	46.25	46.25	46.25	46.25	46.25	46.25
CAPITAL COST	\$/1,000	1667.	1667.	1667.	46.	46.	46.	46.	46.	46.
SUBTOTAL	\$/1,000	2075.	2050.	1951.	281.	232.	207.	195.	182.	108.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	18036.00	18120.00	17434.00	17234.00	17593.00	17703.00	17800.00	18404.00	19758.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1224.	1230.	1183.	1170.	1194.	1202.	1208.	1249.	1341.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1224.	1230.	1183.	1170.	1194.	1202.	1208.	1249.	1341.

YEAR 5 6 7 8 9 10 11 12 13

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		814.00	814.00	814.00	814.00	814.00	814.00	814.00	814.00	814.00
OPERATING COST \$*1,000		814.	814.	814.	814.	814.	814.	814.	814.	814.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		814.	814.	814.	814.	814.	814.	814.	814.	814.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	880.00	880.00	880.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	880.	880.	880.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	880.	880.	880.

4.9 SLUDGE TREATMENT

VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	8.15
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	105.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	309.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	309.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		1075.00	1069.00	994.00	964.00	962.00	958.00	957.00	983.00	1021.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1410.27	1410.27	1410.27	1410.27	1410.27	1410.27	1410.27	1410.27	1410.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1516.	1508.	1402.	1360.	1357.	1351.	1350.	1386.	1440.
VOLUME 1000 LCM		1075.00	1069.00	994.00	964.00	962.00	958.00	957.00	983.00	1021.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		244.	243.	226.	219.	219.	218.	217.	223.	232.
SUBTOTAL \$*1,000		1760.	1750.	1628.	1579.	1575.	1569.	1567.	1610.	1672.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		7136.	7091.	6619.	6424.	6390.	6354.	6346.	6487.	16995.
TOTAL CAPITAL COST \$*1,000		1912.	1910.	1893.	265.	265.	264.	1144.	1150.	3859.
TOTAL COST \$*1,000		9047.	9001.	8512.	6690.	6655.	6618.	7490.	7636.	20854.

	YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	1359.00	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1950.00	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	2650.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	2650.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	44567.00	44316.00	44263.00	43326.00	42776.00	42653.00	41962.00	41752.00	41717.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	68.26	68.51	68.51	68.51	68.51	67.09	60.81	60.81	60.81
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3042.	3036.	3032.	2968.	2931.	2862.	2552.	2539.	2537.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3042.	3036.	3032.	2968.	2931.	2862.	2552.	2539.	2537.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	10129.00	6814.00	5967.00	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1252.	842.	737.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1252.	842.	737.	0.	0.	0.	0.	0.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	10098.00	13299.00	14122.00	19664.00	19415.00	19359.00	19045.00	18950.00	18934.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	685.	903.	959.	1335.	1318.	1314.	1293.	1286.	1285.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	685.	903.	959.	1335.	1318.	1314.	1293.	1286.	1285.

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		981.25	1037.00	1037.00	1037.00	1037.00	1047.91	1096.00	1096.00	1096.00
OPERATING COST \$*1,000		981.	1037.	1037.	1037.	1037.	1048.	1096.	1096.	1096.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	2257.00	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	2257.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	981.	1037.	1037.	1037.	3294.	1048.	1096.	1096.	1096.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	8135.00	10846.70	10846.70	10846.70	10846.70	10846.70	10846.70	10846.70	10846.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	33.47	33.47	33.47	33.47	33.47	33.47	33.47	33.47	33.47
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		272.	363.	363.	363.	363.	363.	363.	363.	363.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	272.	363.	363.	363.	363.	363.	363.	363.	363.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		1019.00	1013.00	1012.00	991.00	978.00	975.00	960.00	955.00	954.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1410.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1437.	1383.	1382.	1353.	1335.	1331.	1311.	1304.	1302.
VOLUME 1000 LCM		1019.00	1013.00	1012.00	991.00	978.00	975.00	960.00	955.00	954.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		231.	230.	230.	225.	222.	222.	218.	217.	217.
SUBTOTAL \$*1,000		1669.	1613.	1612.	1578.	1557.	1553.	1529.	1521.	1519.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		2.50	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		85.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		2.50	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		6915.90	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		17.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		102.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		7754.	10214.	7510.	7056.	6984.	6918.	6614.	6588.	6584.
TOTAL CAPITAL COST \$*1,000		249.	230.	230.	225.	2479.	222.	218.	217.	217.
TOTAL COST \$*1,000		8003.	10444.	7740.	7281.	9463.	7139.	6832.	6805.	6800.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	89.60
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1239.20
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	111.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	89.60
QUANTITY 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	27.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	138.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1228.10
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1556.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1228.10
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	242.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1798.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	19433.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1105.56
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	21484.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	13710.00
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	174.50
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2392.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	23877.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	41641.00	41638.00	23847.00	0.	0.	0.	0.	0.	1047502.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	60.81	60.81	60.81	0.	0.	0.	0.	0.	64.79
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2532.	2532.	1450.	0.	0.	0.	0.	0.	67863.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12349.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12349.
SUBTOTAL	\$/1,000	2532.	2532.	1450.	0.	0.	0.	0.	0.	80212.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	55310.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	6834.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16945.13
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16945.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	23779.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	18899.00	18898.00	10823.00	0.	0.	0.	0.	0.	420114.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	0.	0.	0.	0.	0.	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1283.	1283.	735.	0.	0.	0.	0.	0.	28519.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1283.	1283.	735.	0.	0.	0.	0.	0.	28519.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1096.00	1096.00	986.40	0.	0.	0.	0.	0.	21597.56
OPERATING COST \$*1,000		1096.	1096.	986.	0.	0.	0.	0.	0.	21598.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8105.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8105.
SUBTOTAL \$*1,000		1096.	1096.	986.	0.	0.	0.	0.	0.	29703.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		10846.70	10846.70	9762.10	0.	0.	0.	0.	0.	126364.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		33.47	33.47	33.47	0.	0.	0.	0.	0.	33.47
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		363.	363.	327.	0.	0.	0.	0.	0.	4229.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2640.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2640.
SUBTOTAL \$*1,000		363.	363.	327.	0.	0.	0.	0.	0.	6869.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	14.65
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	157.50
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	524.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	524.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		952.00	952.00	545.00	0.	0.	0.	0.	0.	23954.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1365.27	1365.27	1365.27	0.	0.	0.	0.	0.	1384.55
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1300.	1300.	744.	0.	0.	0.	0.	0.	33166.
VOLUME 1000 LCM		952.00	952.00	545.00	0.	0.	0.	0.	0.	23954.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	0.	0.	0.	0.	0.	225.65
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		216.	216.	124.	0.	0.	0.	0.	0.	5405.
SUBTOTAL \$*1,000		1516.	1516.	868.	0.	0.	0.	0.	0.	38571.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	7.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	247.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	7.30
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	50.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	297.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		6574.	6574.	4242.	0.	0.	0.	0.	0.	185607.
TOTAL CAPITAL COST \$*1,000		216.	216.	124.	0.	0.	0.	0.	0.	48680.
TOTAL COST \$*1,000		6790.	6790.	4366.	0.	0.	0.	0.	0.	234287.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	31.00	31.00	31.00	31.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	19.	19.	19.	19.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	31.00	31.00	31.00	31.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	5.	5.	5.	5.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	24.	24.	24.	24.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	31.00	31.00	31.00	31.00
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	2.60	2.60	2.60	2.60
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	18.	18.	18.	18.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	80.60	80.60	80.60	80.60
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	3.	3.	3.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	22.	22.	22.	22.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	31.00	31.00	31.00	31.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	5.	5.	5.	5.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	31.00	31.00	31.00	31.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	1.	1.	1.	1.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	6.	6.	6.	6.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	1.40	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	47.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	1.40	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	10.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	57.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	93.00	93.00	93.00	93.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	3.	3.	3.	3.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	93.00	93.00	93.00	93.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	3.	3.	3.	3.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION											
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE											
AREA	HECTARES	0.	0.	0.	0.	0.	15.50	15.50	15.50	15.50	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	768.05	768.05	768.05	768.05	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	7.77	15.55	23.32	31.09	
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	20.	27.	35.	43.	
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	20.	27.	35.	43.	
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	112.	72.	80.	88.	
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	19.	9.	9.	9.	
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	131.	82.	89.	97.	

YEAR 5 6 7 8 9 10 11 12 13

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	31.00	31.00	31.00	31.00	31.00	31.00	31.00	103.40	103.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	19.	19.	19.	19.	19.	19.	19.	64.	64.
VOLUME	1000 BCM	31.00	31.00	31.00	31.00	31.00	31.00	31.00	103.40	103.40
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	5.	5.	5.	5.	5.	5.	5.	15.	15.
SUBTOTAL	\$/1000	24.	24.	24.	24.	24.	24.	24.	79.	79.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	31.00	31.00	31.00	31.00	31.00	31.00	31.00	103.40	103.40
HAUL DISTANCE	KM	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	18.	18.	18.	18.	18.	18.	18.	60.	60.
VOLUME*DISTANCE	1000 BCM*KM	80.60	80.60	80.60	80.60	80.60	80.60	80.60	268.80	268.80
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	3.	3.	3.	3.	3.	3.	3.	11.	11.
SUBTOTAL	\$/1000	22.	22.	22.	22.	22.	22.	22.	72.	72.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	31.00	31.00	31.00	31.00	31.00	31.00	31.00	103.40	103.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	5.	5.	5.	5.	5.	5.	5.	17.	17.
VOLUME	1000 BCM	31.00	31.00	31.00	31.00	31.00	31.00	31.00	103.40	103.40
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	1.	1.	1.	1.	1.	1.	1.	3.	3.
SUBTOTAL	\$/1000	6.	6.	6.	6.	6.	6.	6.	20.	20.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.40	0.	0.	0.	0.	0.40	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14.	0.	0.	0.	0.	14.	0.	0.	0.
DISTANCE	KM	0.40	0.	0.	0.	0.	0.40	0.	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	0.	0.	0.	0.	3.	0.	0.	0.
SUBTOTAL	\$/1,000	16.	0.	0.	0.	0.	16.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	27.	27.	27.	27.	27.
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	6.	6.	6.	6.	6.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	33.	33.	33.	33.	33.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
HAUL DISTANCE	KM	0.	0.	0.	0.	5.00	5.00	5.00	4.90	4.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	44.	44.	44.	43.	42.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	247.00	247.00	247.00	242.10	237.10
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	8.	8.	8.	8.	8.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	53.	53.	53.	51.	50.

	YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	7.	7.	7.	7.	7.
VOLUME	1000 BCM	0.	0.	0.	0.	49.40	49.40	49.40	49.40	49.40
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	1.	1.	1.	1.	1.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	8.	8.	8.	8.	8.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	2.20	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	33825.11	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	74.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	2.20	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	6915.90	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	15.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	90.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	93.00	93.00	93.00	93.00	241.20	241.20	241.20	458.40	458.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3.	3.	3.	3.	7.	7.	7.	13.	13.
VOLUME	1000 BCM	93.00	93.00	93.00	93.00	241.20	241.20	241.20	458.40	458.40
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	1.	1.	1.	2.	2.
SUBTOTAL	\$/1,000	3.	3.	3.	3.	8.	8.	8.	15.	15.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	5	6	7	8	9	10	11	12	13
5.13 PREPARED SOIL PLACEMENT, TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION											
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE											
AREA	HECTARES		15.50	15.50	15.50	15.50	40.20	40.20	40.20	76.40	76.40
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000		38.87	46.64	54.41	62.18	102.52	122.68	142.84	181.16	219.47
OPERATING COST	\$/1,000		51.	59.	66.	74.	133.	154.	174.	240.	278.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		51.	59.	66.	74.	133.	154.	174.	240.	278.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000		109.	103.	111.	119.	335.	294.	300.	470.	508.
TOTAL CAPITAL COST	\$/1,000		12.	9.	9.	9.	41.	29.	26.	47.	47.
TOTAL COST	\$/1,000		121.	113.	120.	128.	376.	323.	326.	518.	555.

YEAR 14 15 16 17 18 19 20 21 22

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	72.40	72.40	22.80	34.00	34.00	52.80	52.80	52.80	52.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	45.	45.	14.	21.	21.	32.	32.	32.	32.
VOLUME	1000 BCM	72.40	72.40	22.80	34.00	34.00	52.80	52.80	52.80	52.80
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	11.	11.	3.	5.	5.	8.	8.	8.	8.
SUBTOTAL	\$/1,000	55.	55.	17.	26.	26.	40.	40.	40.	40.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	72.40	72.40	22.80	34.00	34.00	52.80	52.80	52.80	52.80
HAUL DISTANCE	KM	2.60	2.60	2.33	2.22	2.22	1.60	1.60	1.60	1.60
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	42.	42.	12.	17.	17.	19.	19.	19.	19.
VOLUME*DISTANCE	1000 BCM*KM	188.20	188.20	53.10	75.50	75.50	84.50	84.50	84.50	84.50
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	8.	2.	3.	3.	4.	4.	4.	4.
SUBTOTAL	\$/1,000	50.	50.	14.	20.	20.	23.	23.	23.	23.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	72.40	72.40	22.80	34.00	34.00	52.80	52.80	52.80	52.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	12.	12.	4.	6.	6.	9.	9.	9.	9.
VOLUME	1000 BCM	72.40	72.40	22.80	34.00	34.00	52.80	52.80	52.80	52.80
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	2.	1.	1.	1.	1.	1.	1.	1.
SUBTOTAL	\$/1,000	14.	14.	4.	6.	6.	10.	10.	10.	10.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 14 15 16 17 18 19 20 21 22

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	7.00	0.70	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	33825.11	33825.11	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	237.	24.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	7.00	0.70	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	6915.90	6915.90	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	48.	5.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	285.	29.	0.	0.	0.	0.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	27.	27.	71.	77.	77.	71.	71.	71.	71.
VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	6.	17.	19.	19.	17.	17.	17.	17.
SUBTOTAL	\$/1,000	33.	33.	88.	95.	95.	88.	88.	88.	88.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
HAUL DISTANCE	KM	4.70	4.60	4.50	4.10	4.10	4.50	4.50	4.50	4.50
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	41.	41.	105.	104.	104.	105.	105.	105.	105.
VOLUME*DISTANCE	1000 BCM*KM	232.20	227.20	587.70	581.40	581.40	587.70	587.70	587.70	587.70
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	8.	20.	20.	20.	20.	20.	20.	20.
SUBTOTAL	\$/1,000	49.	48.	125.	124.	124.	125.	125.	125.	125.

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7.	7.	18.	20.	20.	18.	18.	18.	18.
VOLUME	1000 BCM	49.40	49.40	130.60	141.80	141.80	130.60	130.60	130.60	130.60
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	1.	1.	3.	3.	3.	3.	3.	3.	3.
SUBTOTAL	\$/1,000	8.	8.	21.	23.	23.	21.	21.	21.	21.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	365.40	365.40	460.20	493.80	493.80	550.20	550.20	550.20	550.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10.	10.	13.	14.	14.	15.	15.	15.	15.
VOLUME	1000 BCM	365.40	365.40	460.20	493.80	493.80	550.20	550.20	550.20	550.20
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	2.	2.	2.	2.	2.	2.	2.	2.
SUBTOTAL	\$/1,000	12.	12.	15.	16.	16.	18.	18.	18.	18.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	60.90	60.90	76.70	82.30	82.30	91.70	91.70	91.70	91.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1000	250.01	280.55	369.45	410.72	452.00	427.38	473.37	519.35	565.34
OPERATING COST	\$/1000	297.	327.	428.	474.	515.	498.	544.	590.	636.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	297.	327.	428.	474.	515.	498.	544.	590.	636.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	481.	510.	902.	755.	773.	767.	813.	859.	905.
TOTAL CAPITAL COST	\$/1000	38.	38.	97.	58.	53.	55.	55.	55.	55.
TOTAL COST	\$/1000	519.	548.	999.	813.	826.	823.	869.	915.	961.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	213.60	213.60	213.60	217.40	209.80	146.60	146.60	146.60	2502.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	131.	131.	131.	134.	129.	90.	90.	90.	1539.
VOLUME	1000 BCM	213.60	213.60	213.60	217.40	209.80	146.60	146.60	146.60	2502.40
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	32.	32.	32.	32.	31.	22.	22.	22.	373.
SUBTOTAL	\$/1,000	163.	163.	163.	166.	160.	112.	112.	112.	1912.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	213.60	213.60	213.60	217.40	209.80	146.60	146.60	146.60	2502.40
HAUL DISTANCE	KM	2.65	2.65	2.65	2.66	1.90	1.50	1.50	1.50	2.27
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	244.53	244.53	244.53	244.53	244.53	244.53	232.29
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	127.	127.	138.	141.	97.	54.	54.	54.	1319.
VOLUME*DISTANCE	1000 BCM*KM	566.00	566.00	566.00	578.30	398.60	219.90	219.90	219.90	5677.30
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	24.	24.	24.	25.	17.	9.	9.	9.	241.
SUBTOTAL	\$/1,000	151.	151.	162.	166.	114.	63.	63.	63.	1560.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	213.60	213.60	213.60	217.40	209.80	146.60	146.60	146.60	2502.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	35.	35.	35.	35.	34.	24.	24.	24.	408.
VOLUME	1000 BCM	213.60	213.60	213.60	217.40	209.80	146.60	146.60	146.60	2502.40
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	6.	6.	6.	6.	4.	4.	4.	67.
SUBTOTAL	\$/1,000	41.	41.	41.	41.	40.	28.	28.	28.	475.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	9.60	1.00	9.60	0.	0.	0.	0.	0.	30.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	325.	34.	325.	0.	0.	0.	0.	0.	1018.
DISTANCE	KM	9.60	1.00	9.60	0.	0.	0.	0.	0.	30.10
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	66.	7.	66.	0.	0.	0.	0.	0.	208.
SUBTOTAL	\$/1,000	391.	41.	391.	0.	0.	0.	0.	0.	1226.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	87.	87.	87.	89.	85.	79.	79.	79.	1368.
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	21.	21.	22.	21.	19.	19.	19.	332.
SUBTOTAL	\$/1,000	108.	108.	108.	111.	106.	99.	99.	99.	1700.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
HAUL DISTANCE	KM	4.50	4.50	4.50	4.50	4.50	2.40	2.40	2.40	4.14
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	129.	129.	129.	132.	126.	63.	63.	63.	1867.
VOLUME*DISTANCE	1000 BCM*KM	723.60	723.60	723.60	740.70	706.50	351.80	351.80	351.80	10454.30
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	25.	25.	25.	25.	24.	12.	12.	12.	355.
SUBTOTAL	\$/1,000	154.	154.	154.	157.	150.	75.	75.	75.	2222.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 23 24 25 26 27 28 29 30 TOTALS

5.7 OVERBURDEN REHANDLE PLACEMENT

VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	23.	23.	23.	23.	22.	21.	21.	21.	356.
VOLUME	1000 BCM	160.80	160.80	160.80	164.60	157.00	146.60	146.60	146.60	2526.20
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	4.	4.	4.	4.	3.	3.	3.	58.
SUBTOTAL	\$/1,000	26.	26.	26.	27.	26.	24.	24.	24.	414.

5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	1.30	0.	0.	3.50
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	44.	0.	0.	118.
DISTANCE	KM	0.	0.	0.	0.	0.	1.30	0.	0.	3.50
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	9.	0.	0.	24.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	53.	0.	0.	143.

5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	640.80	640.80	640.80	652.20	629.40	439.80	439.80	439.80	11287.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18.	18.	18.	18.	18.	12.	12.	12.	314.
VOLUME	1000 BCM	640.80	640.80	640.80	652.20	629.40	439.80	439.80	439.80	11287.20
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	3.	3.	3.	3.	2.	2.	2.	49.
SUBTOTAL	\$/1,000	21.	21.	21.	21.	20.	14.	14.	14.	364.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	106.80	106.80	106.80	108.70	104.90	73.30	73.30	73.30	1881.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	618.90	672.46	726.02	780.54	833.14	869.90	906.66	943.42	11147.72
OPERATING COST	\$/1,000	701.	754.	808.	864.	914.	926.	963.	1000.	12593.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	701.	754.	808.	864.	914.	926.	963.	1000.	12593.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	1576.	1338.	1694.	1437.	1425.	1313.	1306.	1343.	20901.
TOTAL CAPITAL COST	\$/1,000	180.	121.	180.	116.	105.	81.	72.	72.	1708.
TOTAL COST	\$/1,000	1756.	1459.	1874.	1554.	1530.	1394.	1378.	1414.	22609.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	4.00	7.00	18.00	36.00	54.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
6.3 MINING										
NO. OF PERSONS	PERSONS	3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.

YEAR 5 6 7 8 9 10 11 12 13

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.

6.2 PLANNING

NO. OF PERSONS	PERSONS	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.

6.3 MINING

NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 23 24 25 26 27 28 29 30 TOTALS

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.

6.2 PLANNING

NO. OF PERSONS	PERSONS	72.00	72.00	72.00	14.00	14.00	14.00	14.00	14.00	1989.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.

6.3 MINING

NO. OF PERSONS	PERSONS	70.00	70.00	70.00	5.00	5.00	5.00	5.00	5.00	1891.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	731.	789.	845.	845.	845.	845.
CAPITAL COST	\$*1,000	0.	4205.	5914.	0.	1710.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	4205.	5914.	731.	2499.	845.	845.	845.	845.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2416.	1923.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
CAPITAL COST	\$*1,000	412.	330.	237.	370.	246.	304.	485.	376.	219.
SUBTOTAL	\$*1,000	2828.	2253.	1524.	2334.	1599.	1955.	3103.	2414.	1412.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	6326.	7827.	14480.	22367.	22859.	23097.
CAPITAL COST	\$*1,000	12251.	12250.	27433.	45326.	24930.	14694.	16103.	0.	2623.
SUBTOTAL	\$*1,000	12251.	12250.	27433.	51652.	32757.	29174.	38470.	22859.	25720.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	42.	91.	798.	4990.	4289.	3793.	5104.	5976.	7071.
CAPITAL COST	\$*1,000	7.	22.	4242.	4230.	6074.	4218.	6319.	4156.	1908.
SUBTOTAL	\$*1,000	49.	113.	5040.	9220.	10363.	8011.	11423.	10131.	8979.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	112.	72.	80.	88.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	19.	9.	9.	9.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	131.	82.	89.	97.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	2788.	2705.	3828.	17435.	19424.	27729.	37855.	38646.	39142.
TOTAL CAPITAL COST	\$*1,000	12669.	16807.	37825.	49926.	32960.	19235.	22916.	4541.	4760.
TOTAL COST	\$*1,000	15458.	19512.	41654.	67361.	52384.	46964.	60771.	43187.	43902.

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	845.	845.	845.	845.	845.	845.	845.	845.	845.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	845.	845.	845.	845.	845.	845.	845.	845.	845.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
CAPITAL COST	\$*1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
SUBTOTAL	\$*1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	22388.	22270.	21136.	20692.	19797.	18727.	18677.	19000.	19662.
CAPITAL COST	\$*1,000	0.	723.	0.	0.	2623.	0.	0.	0.	723.
SUBTOTAL	\$*1,000	22388.	22993.	21136.	20692.	22420.	18727.	18677.	19000.	20385.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	7136.	7091.	6619.	6424.	6390.	6354.	6346.	6487.	16995.
CAPITAL COST	\$*1,000	1912.	1910.	1893.	265.	265.	264.	1144.	1150.	3859.
SUBTOTAL	\$*1,000	9047.	9001.	8512.	6690.	6655.	6618.	7490.	7636.	20854.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	109.	103.	111.	119.	335.	294.	300.	470.	508.
CAPITAL COST	\$*1,000	12.	9.	9.	9.	41.	29.	26.	47.	47.
SUBTOTAL	\$*1,000	121.	113.	120.	128.	376.	323.	326.	518.	555.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	38060.	37788.	36374.	35623.	35579.	33907.	33658.	34220.	45263.
TOTAL CAPITAL COST	\$*1,000	2057.	2756.	2046.	401.	3189.	448.	1287.	1301.	4703.
TOTAL COST	\$*1,000	40117.	40544.	38420.	36024.	38768.	34354.	34945.	35520.	49966.

YEAR 14 15 16 17 18 19 20 21 22

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	845.	845.	845.	845.	845.	845.	845.	845.	845.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	845.	845.	845.	845.	845.	845.	845.	845.	845.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	321.	152.	219.	226.	314.	487.	510.	471.	781.
CAPITAL COST	\$*1,000	58.	26.	39.	40.	56.	86.	93.	87.	145.
SUBTOTAL	\$*1,000	379.	178.	258.	265.	370.	573.	603.	558.	926.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	19573.	19246.	19177.	19175.	19567.	19576.	19466.	19906.	20069.
CAPITAL COST	\$*1,000	3635.	0.	0.	0.	0.	2623.	723.	614.	0.
SUBTOTAL	\$*1,000	23208.	19246.	19177.	19175.	19567.	22199.	20189.	20519.	20069.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	7754.	10214.	7510.	7056.	6984.	6918.	6614.	6588.	6584.
CAPITAL COST	\$*1,000	249.	230.	230.	225.	2479.	222.	218.	217.	217.
SUBTOTAL	\$*1,000	8003.	10444.	7740.	7281.	9463.	7139.	6832.	6805.	6800.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	481.	510.	902.	755.	773.	767.	813.	859.	905.
CAPITAL COST	\$*1,000	38.	38.	97.	58.	53.	55.	55.	55.	55.
SUBTOTAL	\$*1,000	519.	548.	999.	813.	826.	823.	869.	915.	961.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	35823.	37816.	35502.	34905.	35332.	35442.	35097.	35518.	36032.
TOTAL CAPITAL COST	\$*1,000	3979.	294.	365.	323.	2588.	2986.	1089.	973.	417.
TOTAL COST	\$*1,000	39802.	38110.	35867.	35228.	37920.	38428.	36186.	36491.	36449.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	845.	845.	783.	37.	37.	37.	37.	37.	22768.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	11829.
SUBTOTAL	\$*1,000	845.	845.	783.	37.	37.	37.	37.	37.	34597.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	26614.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	4833.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	31447.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	20435.	17244.	8611.	0.	0.	0.	0.	0.	501352.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	167274.
SUBTOTAL	\$*1,000	20435.	17244.	8611.	0.	0.	0.	0.	0.	668626.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	6574.	6574.	4242.	0.	0.	0.	0.	0.	185607.
CAPITAL COST	\$*1,000	216.	216.	124.	0.	0.	0.	0.	0.	48680.
SUBTOTAL	\$*1,000	6790.	6790.	4366.	0.	0.	0.	0.	0.	234287.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	1576.	1338.	1694.	1437.	1425.	1313.	1306.	1343.	20901.
CAPITAL COST	\$*1,000	180.	121.	180.	116.	105.	81.	72.	72.	1708.
SUBTOTAL	\$*1,000	1756.	1459.	1874.	1554.	1530.	1394.	1378.	1414.	22609.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	36278.	32849.	22179.	2585.	2573.	2461.	2454.	2491.	945362.
TOTAL CAPITAL COST	\$*1,000	396.	337.	304.	116.	105.	81.	72.	72.	234324.
TOTAL COST	\$*1,000	36675.	33186.	22483.	2702.	2678.	2542.	2526.	2562.	1179686.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	499.	490.	477.	434.	394.	358.
CAPITAL COST	\$*1,000	0.	3475.	4443.	0.	1062.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	3475.	4443.	499.	1552.	477.	434.	394.	358.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2196.	1589.	967.	1341.	840.	932.	1344.	951.	506.
CAPITAL COST	\$*1,000	374.	273.	178.	252.	153.	172.	249.	175.	93.
SUBTOTAL	\$*1,000	2571.	1862.	1145.	1594.	993.	1104.	1593.	1126.	599.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	4321.	4860.	8173.	11478.	10664.	9795.
CAPITAL COST	\$*1,000	11137.	10124.	20611.	30958.	15480.	8295.	8263.	0.	1112.
SUBTOTAL	\$*1,000	11137.	10124.	20611.	35279.	20340.	16468.	19741.	10664.	10908.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	38.	75.	600.	3408.	2663.	2141.	2619.	2788.	2999.
CAPITAL COST	\$*1,000	6.	18.	3187.	2889.	3771.	2381.	3243.	1939.	809.
SUBTOTAL	\$*1,000	44.	94.	3787.	6297.	6434.	4522.	5862.	4726.	3808.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	63.	37.	37.	37.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	11.	5.	4.	4.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	74.	42.	42.	41.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	2535.	2236.	2876.	11908.	12061.	15652.	19426.	18029.	16600.
TOTAL CAPITAL COST	\$*1,000	11518.	13890.	28419.	34100.	20466.	10858.	11760.	2118.	2018.
TOTAL COST	\$*1,000	14053.	16126.	31295.	46009.	32526.	26510.	31185.	20147.	18619.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST \$*1,000	326.	296.	269.	245.	223.	202.	184.	167.	152.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	326.	296.	269.	245.	223.	202.	184.	167.	152.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST \$*1,000	283.	221.	260.	201.	359.	201.	139.	113.	73.
CAPITAL COST \$*1,000	51.	40.	46.	37.	69.	37.	25.	21.	13.
SUBTOTAL \$*1,000	334.	261.	305.	238.	428.	238.	165.	133.	86.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST \$*1,000	8632.	7805.	6735.	5994.	5213.	4483.	4065.	3759.	3536.
CAPITAL COST \$*1,000	0.	253.	0.	0.	691.	0.	0.	0.	130.
SUBTOTAL \$*1,000	8632.	8059.	6735.	5994.	5904.	4483.	4065.	3759.	3666.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST \$*1,000	2751.	2485.	2109.	1861.	1683.	1521.	1381.	1283.	3057.
CAPITAL COST \$*1,000	737.	669.	603.	77.	70.	63.	249.	227.	694.
SUBTOTAL \$*1,000	3488.	3155.	2712.	1938.	1752.	1584.	1630.	1511.	3751.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST \$*1,000	42.	36.	35.	34.	88.	70.	65.	93.	91.
CAPITAL COST \$*1,000	5.	3.	3.	3.	11.	7.	6.	9.	8.
SUBTOTAL \$*1,000	47.	39.	38.	37.	99.	77.	71.	102.	100.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST \$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	14674.	13244.	11590.	10319.	9369.	8117.	7325.	6770.	8141.
TOTAL CAPITAL COST \$*1,000	793.	966.	652.	116.	840.	107.	280.	257.	846.
TOTAL COST \$*1,000	15467.	14210.	12242.	10435.	10209.	8224.	7605.	7028.	8987.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	138.	126.	114.	104.	94.	86.	78.	71.	64.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	138.	126.	114.	104.	94.	86.	78.	71.	64.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	52.	23.	30.	28.	35.	49.	47.	40.	60.
CAPITAL COST	\$*1,000	9.	4.	5.	5.	6.	9.	9.	7.	11.
SUBTOTAL	\$*1,000	62.	26.	35.	33.	41.	58.	56.	47.	71.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	3200.	2861.	2591.	2356.	2185.	1987.	1797.	1670.	1531.
CAPITAL COST	\$*1,000	594.	0.	0.	0.	0.	266.	67.	51.	0.
SUBTOTAL	\$*1,000	3795.	2861.	2591.	2356.	2185.	2254.	1863.	1722.	1531.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	1268.	1518.	1015.	867.	780.	702.	610.	553.	502.
CAPITAL COST	\$*1,000	41.	34.	31.	28.	277.	22.	20.	18.	17.
SUBTOTAL	\$*1,000	1309.	1552.	1046.	894.	1057.	725.	631.	571.	519.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	79.	76.	122.	93.	86.	78.	75.	72.	69.
CAPITAL COST	\$*1,000	6.	6.	13.	7.	6.	6.	5.	5.	4.
SUBTOTAL	\$*1,000	85.	81.	135.	100.	92.	84.	80.	77.	73.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	5857.	5621.	4797.	4288.	3946.	3598.	3239.	2980.	2748.
TOTAL CAPITAL COST	\$*1,000	651.	44.	49.	40.	289.	303.	101.	82.	32.
TOTAL COST	\$*1,000	6508.	5665.	4847.	4328.	4235.	3901.	3340.	3062.	2780.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 MINIMUM LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	59.	53.	45.	2.	2.	2.	1.	1.	5756.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	8980.
SUBTOTAL	\$*1,000	59.	53.	45.	2.	2.	2.	1.	1.	14736.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	12879.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	2322.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	15201.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	1417.	1087.	494.	0.	0.	0.	0.	0.	122689.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	108034.
SUBTOTAL	\$*1,000	1417.	1087.	494.	0.	0.	0.	0.	0.	230723.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	456.	414.	243.	0.	0.	0.	0.	0.	44391.
CAPITAL COST	\$*1,000	15.	14.	7.	0.	0.	0.	0.	0.	22157.
SUBTOTAL	\$*1,000	471.	428.	250.	0.	0.	0.	0.	0.	66548.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	109.	84.	97.	75.	68.	57.	51.	48.	2069.
CAPITAL COST	\$*1,000	12.	8.	10.	6.	5.	3.	3.	3.	186.
SUBTOTAL	\$*1,000	122.	92.	107.	81.	72.	60.	54.	50.	2256.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	475.	432.	392.	58.	53.	48.	43.	40.	46567.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	475.	432.	392.	58.	53.	48.	43.	40.	46567.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	2516.	2071.	1271.	135.	122.	106.	96.	89.	234352.
TOTAL CAPITAL COST	\$*1,000	27.	21.	17.	6.	5.	3.	3.	3.	141679.
TOTAL COST	\$*1,000	2543.	2092.	1288.	141.	127.	109.	99.	91.	376032.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

8.0

60,000 BPCD

Bucket Wheel Mine

Improved Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	619.00	619.00	619.00	619.00	619.00	619.00
OPERATING COST \$*1,000		0.	0.	0.	619.	619.	619.	619.	619.	619.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	4205.00	4204.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	4205.	4204.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	4205.	4204.	619.	619.	619.	619.	619.	619.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		0.	0.	0.	114.00	172.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	114.	172.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	114.00	0.	114.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	1710.	0.	1710.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	1710.	114.	1882.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	733.	791.	847.	847.	847.	847.
TOTAL CAPITAL COST \$*1,000		0.	4205.	5914.	0.	1710.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	4205.	5914.	733.	2501.	847.	847.	847.	847.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 RWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		619.00	619.00	619.00	619.00	619.00	619.00	619.00	619.00	619.00
OPERATING COST \$*1,000		619.	619.	619.	619.	619.	619.	619.	619.	619.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	619.	619.	619.	619.	619.	619.	619.	619.	619.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	228.	228.	228.	228.	228.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		847.	847.	847.	847.	847.	847.	847.	847.	847.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	847.	847.	847.	847.	847.	847.	847.	847.	847.

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		619.00	619.00	619.00	619.00	619.00	619.00	619.00	619.00	619.00
OPERATING COST \$*1,000		619.	619.	619.	619.	619.	619.	619.	619.	619.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		619.	619.	619.	619.	619.	619.	619.	619.	619.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00	228.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		228.	228.	228.	228.	228.	228.	228.	228.	228.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		847.	847.	847.	847.	847.	847.	847.	847.	847.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		847.	847.	847.	847.	847.	847.	847.	847.	847.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		619.00	619.00	557.00	0.	0.	0.	0.	0.	16651.00
OPERATING COST \$*1,000		619.	619.	557.	0.	0.	0.	0.	0.	16651.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8409.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8409.
SUBTOTAL	\$*1,000	619.	619.	557.	0.	0.	0.	0.	0.	25060.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		228.00	228.00	228.00	37.00	37.00	37.00	37.00	37.00	6171.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		228.	228.	228.	37.	37.	37.	37.	37.	6171.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	228.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3420.
SUBTOTAL	\$*1,000	228.	228.	228.	37.	37.	37.	37.	37.	9591.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		847.	847.	785.	37.	37.	37.	37.	37.	22822.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	11829.
TOTAL COST \$*1,000		847.	847.	785.	37.	37.	37.	37.	37.	34651.

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.1 CLEARING

AREA	HECTARES	663.70	436.10	82.60	116.90	98.00	79.90	54.50	54.90	58.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	841.	552.	105.	148.	124.	101.	69.	70.	74.
AREA	HECTARES	663.70	436.10	82.60	116.90	98.00	79.90	54.50	54.90	58.60
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	131.	86.	16.	23.	19.	16.	11.	11.	12.
SUBTOTAL	\$*1,000	971.	638.	121.	171.	143.	117.	80.	80.	86.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	237.	69.	60.	73.	124.	101.	62.	41.	38.
DITCH VOLUME	1000 BCM	128.25	37.10	32.50	39.35	66.80	54.80	33.75	22.40	20.75
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	38.	11.	10.	12.	20.	16.	10.	7.	6.
SUBTOTAL	\$*1,000	276.	80.	70.	85.	144.	118.	73.	48.	45.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	508.	415.	442.	442.	410.	529.	979.	788.	444.
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	124.	101.	107.	107.	100.	129.	238.	191.	108.
SUBTOTAL	\$*1,000	632.	516.	549.	549.	509.	658.	1217.	979.	552.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
HAUL DISTANCE	KM	2.50	1.50	2.35	4.40	3.85	3.45	3.20	3.00	2.95
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	374.	183.	306.	572.	465.	538.	923.	696.	386.
VOLUME*DISTANCE	1000 BCM*KM	1313.10	731.25	1219.10	2282.50	1852.80	2145.50	3680.00	2775.00	1539.50
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	64.	36.	59.	111.	90.	104.	179.	135.	75.
SUBTOTAL	\$/1000	438.	219.	365.	684.	555.	643.	1102.	831.	461.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	286.	234.	249.	249.	231.	298.	551.	443.	250.
VOLUME	1000 BCM	596.88	487.50	518.75	518.75	481.25	621.88	1150.00	925.00	521.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	21.	17.	18.	18.	17.	22.	40.	32.	18.
SUBTOTAL	\$/1000	307.	251.	267.	267.	247.	320.	591.	475.	268.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	0.	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	169.	132.	127.	480.	0.	83.	34.	0.	0.
LENGTH	KM	5.00	3.90	3.75	14.20	0.	2.45	1.00	0.	0.
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	0.	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	35.	27.	26.	98.	0.	17.	7.	0.	0.
SUBTOTAL	\$/1000	204.	159.	153.	579.	0.	100.	41.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	2416.	1585.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
TOTAL CAPITAL COST	\$/1000	412.	277.	237.	370.	246.	304.	485.	376.	219.
TOTAL COST	\$/1000	2828.	1863.	1524.	2334.	1599.	1955.	3103.	2414.	1412.

		YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING											
AREA	HECTARES		56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		72.	72.	222.	73.	66.	53.	52.	51.	58.
AREA	HECTARES		56.70	57.20	175.10	57.40	52.40	41.70	41.40	40.10	46.10
UNIT PRICE 2	\$/HECTARE		196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		11.	11.	34.	11.	10.	8.	8.	8.	9.
SUBTOTAL	\$/1,000		83.	84.	256.	84.	77.	61.	61.	59.	67.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		41.	40.	44.	43.	40.	37.	25.	20.	7.
DITCH VOLUME	1000 BCM		22.25	21.50	23.65	23.25	21.75	19.75	13.75	10.75	4.00
UNIT PRICE 2	\$/1000 BCM		300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		7.	6.	7.	7.	7.	6.	4.	3.	1.
SUBTOTAL	\$/1,000		48.	46.	51.	50.	47.	42.	30.	23.	9.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		255.	221.	237.	229.	290.	269.	231.	210.	146.
VOLUME	1000 BCM		300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM		207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		62.	54.	58.	56.	71.	65.	56.	51.	36.
SUBTOTAL	\$/1,000		318.	275.	294.	284.	361.	334.	288.	261.	182.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
HAUL DISTANCE	KM	2.80	2.65	2.25	2.70	3.35	3.15	2.95	2.75	2.55
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	211.	172.	157.	182.	286.	249.	201.	170.	110.
VOLUME*DISTANCE	1000 BCM*KM	840.00	687.30	625.80	725.60	1141.10	994.20	802.00	678.90	438.30
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	41.	33.	30.	35.	56.	48.	39.	33.	21.
SUBTOTAL	\$/1,000	252.	206.	187.	217.	342.	298.	240.	203.	131.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	144.	124.	133.	129.	163.	151.	130.	118.	82.
VOLUME	1000 BCM	300.00	259.38	278.13	268.75	340.63	315.63	271.88	246.88	171.88
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	10.	9.	10.	9.	12.	11.	9.	9.	6.
SUBTOTAL	\$/1,000	154.	133.	143.	138.	175.	162.	140.	127.	88.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	33825.11	33825.11	33825.11	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10.	0.	22.	39.	518.	79.	0.	0.	0.
LENGTH	KM	0.30	0.	0.65	1.16	15.30	2.35	0.	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	6915.90	6915.90	6915.90	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	0.	4.	8.	106.	16.	0.	0.	0.
SUBTOTAL	\$/1,000	12.	0.	26.	47.	623.	96.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
TOTAL CAPITAL COST	\$/1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
TOTAL COST	\$/1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING										
AREA	HECTARES	37.40	35.50	39.90	42.40	36.70	94.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	47.	45.	51.	54.	46.	119.	0.	0.	0.
AREA	HECTARES	37.40	35.50	39.90	42.20	36.70	94.00	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	7.	8.	8.	7.	19.	0.	0.	0.
SUBTOTAL	\$/1,000	55.	52.	58.	62.	54.	138.	0.	0.	0.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	12.	11.	15.	22.	30.	30.	46.	0.	0.
DITCH VOLUME	1000 BCM	6.50	6.10	8.35	11.90	16.15	16.35	24.75	0.	0.
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2.	2.	3.	4.	5.	5.	7.	0.	0.
SUBTOTAL	\$/1,000	14.	13.	18.	26.	35.	35.	53.	0.	0.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	114.	43.	69.	69.	114.	165.	231.	242.	349.
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	28.	10.	17.	17.	28.	40.	56.	59.	85.
SUBTOTAL	\$/1,000	142.	53.	86.	86.	142.	205.	288.	301.	433.

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
HAUL DISTANCE	KM	2.45	2.30	2.20	2.05	1.75	1.65	1.50	1.30	2.30
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	83.	29.	45.	42.	59.	80.	102.	93.	236.
VOLUME*DISTANCE	1000 BCM*KM	329.20	115.00	178.75	166.60	235.20	319.70	407.80	369.70	941.60
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	16.	6.	9.	8.	11.	16.	20.	18.	46.
SUBTOTAL	\$/1000	99.	34.	54.	50.	70.	96.	122.	111.	282.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	64.	24.	39.	39.	64.	93.	130.	136.	196.
VOLUME	1000 BCM	134.38	50.00	81.25	81.25	134.38	193.75	271.88	284.38	409.38
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	5.	2.	3.	3.	5.	7.	9.	10.	14.
SUBTOTAL	\$/1000	69.	26.	42.	42.	69.	100.	140.	146.	210.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	321.	152.	219.	226.	314.	487.	510.	471.	781.
TOTAL CAPITAL COST	\$/1000	58.	26.	39.	40.	56.	86.	93.	87.	145.
TOTAL COST	\$/1000	379.	178.	258.	265.	370.	573.	603.	558.	926.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	2499.20
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3166.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	2499.00
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	492.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	3658.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	686.45
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1270.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	686.45
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	206.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1476.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8442.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2053.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	10495.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	2.80
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	6951.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	27535.50
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1341.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	8292.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4754.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	9915.63
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	343.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5097.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1693.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	50.06
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	346.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2039.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	26276.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4781.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	31056.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	22050.00	33009.00	33829.00	34335.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	177.64	177.64	177.64	177.64	177.64	177.64
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1146.	1581.	3917.	5864.	6009.	6099.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	7591.00	7590.00	22773.00	15181.00	15182.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7591.	7590.	22773.	15181.	15182.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	7591.	7590.	22773.	16327.	16763.	3917.	5864.	6009.	6099.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	22050.00	33009.00	33829.00	34335.00
DISTANCE	M	0.	0.	0.	5250.00	8400.00	11970.00	16930.00	16930.00	16930.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	653.	1442.	5093.	10783.	11051.	11216.
CONV. INCREASE	M	0.	0.	0.	5250.00	3150.00	3570.00	4960.00	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	3610.44	3610.44	3610.44	3610.44	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	18955.	11373.	12889.	17908.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	19608.	12815.	17982.	28691.	11051.	11216.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	0.	0.	0.	6450.00	8900.00	11059.00	13554.00	14105.00	13898.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	121.28	121.28	121.28	121.28	121.28	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	782.	1079.	1341.	1644.	1711.	1686.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	4660.00	4660.00	4660.00	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4660.	4660.	4660.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4660.	4660.	4660.	782.	1079.	1341.	1644.	1711.	1686.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00
OPERATING COST	\$/1,000	0.	0.	0.	3595.	3595.	3595.	3595.	3595.	3595.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	6858.00	0.	0.	0.	0.	2623.00
CAPITAL COST	\$/1,000	0.	0.	0.	6858.	0.	0.	0.	0.	2623.
SUBTOTAL	\$/1,000	0.	0.	0.	10453.	3595.	3595.	3595.	3595.	6218.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	6176.	7698.	13946.	21885.	22366.	22596.
TOTAL CAPITAL COST	\$/1,000	12251.	12250.	27433.	40994.	26555.	12889.	17908.	0.	2623.
TOTAL COST	\$/1,000	12251.	12250.	27433.	47170.	34253.	26835.	39793.	22366.	25219.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		34369.00	34209.00	32145.00	31311.00	30978.00	30252.00	30235.00	30190.00	30123.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		6105.	6077.	5710.	5562.	5503.	5374.	5371.	5363.	5351.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		6105.	6077.	5710.	5562.	5503.	5374.	5371.	5363.	5351.

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	34369.00	34209.00	32145.00	31311.00	30978.00	30252.00	30235.00	30190.00	30123.00
DISTANCE	M	18730.00	17630.00	17580.00	17580.00	16730.00	15620.00	15550.00	15500.00	16250.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	12421.	11637.	10904.	10621.	10000.	9118.	9072.	9029.	9445.
CONV. INCREASE	M	1800.00	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	3610.44	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6499.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	18920.	11637.	10904.	10621.	10000.	9118.	9072.	9029.	9445.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	13655.00	13607.00	12985.00	12734.00	12441.00	11803.00	11788.00	11254.00	10455.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1656.	1650.	1575.	1544.	1509.	1431.	1430.	1365.	1268.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1656.	1650.	1575.	1544.	1509.	1431.	1430.	1365.	1268.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00
OPERATING COST	\$/1,000	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	723.00	0.	0.	2623.00	0.	0.	0.	723.00
CAPITAL COST	\$/1,000	0.	723.	0.	0.	2623.	0.	0.	0.	723.
SUBTOTAL	\$/1,000	3595.	4318.	3595.	3595.	6218.	3595.	3595.	3595.	4318.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	23777.	22959.	21784.	21322.	20607.	19518.	19467.	19352.	19659.
TOTAL CAPITAL COST	\$/1,000	6499.	723.	0.	0.	2623.	0.	0.	0.	723.
TOTAL COST	\$/1,000	30276.	23682.	21784.	21322.	23230.	19518.	19467.	19352.	20382.

	YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	29972.00	29416.00	29299.00	29213.00	29163.00	29121.00	28887.00	28816.00	29067.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64	177.64
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	5324.	5225.	5205.	5189.	5180.	5173.	5131.	5119.	5163.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	5324.	5225.	5205.	5189.	5180.	5173.	5131.	5119.	5163.

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	29972.00	29416.00	29299.00	29213.00	29163.00	29121.00	28887.00	28816.00	29067.00
DISTANCE	M	16250.00	16250.00	16250.00	16250.00	16250.00	17000.00	17000.00	17850.00	17850.00
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9398.	9223.	9187.	9160.	9144.	9552.	9475.	9925.	10011.
CONV. INCREASE	H	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	9398.	9223.	9187.	9160.	9144.	9552.	9475.	9925.	10011.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	10334.00	9889.00	9795.00	10122.00	10313.00	10326.00	10397.00	10418.00	10685.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1253.	1199.	1188.	1228.	1251.	1252.	1261.	1263.	1296.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1253.	1199.	1188.	1228.	1251.	1252.	1261.	1263.	1296.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00	3595.00
OPERATING COST	\$/1,000	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.	3595.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3635.00	0.	0.	0.	0.	2623.00	723.00	0.	0.
CAPITAL COST	\$/1,000	3635.	0.	0.	0.	0.	2623.	723.	0.	0.
SUBTOTAL	\$/1,000	7230.	3595.	3595.	3595.	3595.	6218.	4318.	3595.	3595.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	19570.	19243.	19174.	19171.	19170.	19572.	19463.	19902.	20065.
TOTAL CAPITAL COST	\$/1,000	3635.	0.	0.	0.	0.	2623.	723.	0.	0.
TOTAL COST	\$/1,000	23205.	19243.	19174.	19171.	19170.	22195.	20186.	19902.	20065.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	29630.00	24670.00	11883.00	0.	0.	0.	0.	0.	751522.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	177.64	177.64	177.64	0.	0.	0.	0.	0.	177.64
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	5263.	4382.	2111.	0.	0.	0.	0.	0.	133499.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	68317.00
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	68317.
SUBTOTAL	\$*1,000	5263.	4382.	2111.	0.	0.	0.	0.	0.	201816.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	29630.00	24670.00	11883.00	0.	0.	0.	0.	0.	751522.00
DISTANCE	M	17850.00	17850.00	13510.00	0.	0.	0.	0.	0.	16506.67
UNIT PRICE 1	\$/1000 BCM*M	0.02	0.02	0.02	0.	0.	0.	0.	0.	0.02
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	10205.	8497.	3098.	0.	0.	0.	0.	0.	239357.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	18730.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	3610.44
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	67624.
SUBTOTAL	\$/1,000	10205.	8497.	3098.	0.	0.	0.	0.	0.	306980.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	11281.00	6322.00	1375.00	0.	0.	0.	0.	0.	289945.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	121.28	121.28	121.28	0.	0.	0.	0.	0.	121.28
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1368.	767.	167.	0.	0.	0.	0.	0.	35164.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	13980.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	13980.
SUBTOTAL	\$/1,000	1368.	767.	167.	0.	0.	0.	0.	0.	49144.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	3595.00	3595.00	3235.00	0.	0.	0.	0.	0.	96705.00
OPERATING COST	\$/1,000	3595.	3595.	3235.	0.	0.	0.	0.	0.	96705.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20531.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20531.
SUBTOTAL	\$/1,000	3595.	3595.	3235.	0.	0.	0.	0.	0.	117236.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	20432.	17241.	8610.	0.	0.	0.	0.	0.	504725.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	170452.
TOTAL COST	\$/1,000	20432.	17241.	8610.	0.	0.	0.	0.	0.	675177.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	80.80	16.00	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1239.20	1239.20	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	100.	20.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	80.80	16.00	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.95	300.95	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	24.	5.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	124.	25.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	33.40	0.	614.50	580.20	370.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	0.	1266.82	1266.82	1266.82	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	42.	0.	778.	735.	469.	0.	0.	0.	0.
AREA	HECTARES	33.40	0.	614.50	580.20	370.00	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	0.	196.85	196.85	196.85	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	7.	0.	121.	114.	73.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	49.	0.	899.	849.	542.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	2045.00	2045.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	3988.	3988.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	3988.	3988.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	29003.00	40091.00	44761.00	46379.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	85.80	49.65	50.13	55.87
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	2488.	1991.	2244.	2591.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	4271.00	4271.00	4271.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	4271.	4271.	4271.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	4271.	4271.	4271.	2488.	1991.	2244.	2591.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	6100.00	4400.00	3300.00	3100.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	754.	544.	408.	383.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	2493.75	4610.50	4610.63	1945.75
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	2494.	4611.	4611.	1946.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	3247.	5154.	5018.	2329.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	5521.00	15639.00	17016.00	17950.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	375.	1062.	1155.	1219.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	375.	1062.	1155.	1219.

YEAR		-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	642.00	642.00
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	642.	642.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	1599.00	1598.00	1598.00	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	1599.	1598.	1598.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	1599.	1598.	1598.	642.	642.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	4.40	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	25000.00	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	24.50	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	135.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	135.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	570.00	1010.00	1024.00	1061.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1313.36	1313.36	1365.27	1365.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	749.	1326.	1398.	1449.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	570.00	1010.00	1024.00	1061.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	204.00	204.00	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	116.	206.	233.	241.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	865.	1533.	1631.	1690.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	33825.11	0.	33825.11	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	34.	0.	129.	0.	0.
LENGTH KM		0.	0.	0.	0.	1.00	0.	3.80	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	6915.90	0.	6915.90	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	7.	0.	26.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	41.	0.	155.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		42.	100.	798.	4723.	4490.	4366.	5051.	5847.	6283.
TOTAL CAPITAL COST \$*1,000		7.	24.	4397.	4385.	5950.	4208.	6575.	4843.	2187.
TOTAL COST \$*1,000		49.	124.	5195.	9108.	10440.	8574.	11626.	10690.	8470.

	YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	3008.00	3008.00	3008.00	3008.00	3008.00	3008.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	848.47	848.47	848.47	848.47	848.47	848.47	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2552.	2552.	2552.	2552.	2552.	2552.	0.	0.	0.
QUANTITY 3		3008.00	3008.00	3008.00	3008.00	3008.00	3008.00	0.	0.	0.
UNIT PRICE 2		203.96	203.96	203.96	203.96	203.96	203.96	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	614.	614.	614.	614.	614.	614.	0.	0.	0.
SUBTOTAL	\$/1,000	3166.	3166.	3166.	3166.	3166.	3166.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)										
VOLUME	1000 CUM	47009.00	46755.00	43481.00	42158.00	42067.00	41868.00	41864.00	42973.00	44635.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	58.01	69.47	80.44	80.44	80.44	80.44	80.44	80.44	80.07
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2727.	3248.	3498.	3391.	3384.	3368.	3368.	3457.	3574.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2727.	3248.	3498.	3391.	3384.	3368.	3368.	3457.	3574.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	3400.00	3000.00	3200.00	2700.00	2100.00	1800.00	1600.00	1500.00	1300.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	420.	371.	395.	334.	259.	222.	198.	185.	161.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	1945.75	1945.88	1945.88	84.13	84.13	84.13	84.13	84.13	84.13
CAPITAL COST	\$/1,000	1946.	1946.	1946.	84.	84.	84.	84.	84.	84.
SUBTOTAL	\$/1,000	2366.	2317.	2341.	418.	344.	307.	282.	269.	245.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3,5)										
VOLUME	1000 CUM	17936.00	18220.00	16534.00	16434.00	16993.00	17203.00	17400.00	18004.00	18958.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1218.	1237.	1122.	1116.	1154.	1168.	1181.	1222.	1287.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1218.	1237.	1122.	1116.	1154.	1168.	1181.	1222.	1287.

	YEAR	5	6	7	8	9	10	11	12	13
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		642.00	950.00	950.00	950.00	950.00	950.00	950.00	950.00	950.00
OPERATING COST \$*1,000		642.	950.	950.	950.	950.	950.	950.	950.	950.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		642.	950.	950.	950.	950.	950.	950.	950.	950.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	9734.00	9734.00	9734.00	9734.00	9734.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	1821.33	1821.33	1821.33	1821.33	1821.33
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	17729.	17729.	17729.	17729.	17729.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	7979.00	7979.00	7979.00	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	7979.	7979.	7979.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	7979.	7979.	7979.	17729.	17729.	17729.	17729.	17729.

YEAR 5 6 7 8 9 10 11 12 13

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		3.85	0.	0.	3.75	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		25000.00	0.	0.	25000.00	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		40.25	0.	0.	70.00	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		137.	0.	0.	164.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		137.	0.	0.	164.	0.	0.	0.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		1075.00	1069.00	994.00	964.00	962.00	958.00	957.00	983.00	1021.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1468.	1459.	1357.	1316.	1313.	1308.	1307.	1342.	1394.
VOLUME 1000 LCM		1075.00	1069.00	994.00	964.00	962.00	958.00	957.00	983.00	1021.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		244.	243.	226.	219.	219.	218.	217.	223.	232.
SUBTOTAL \$*1,000		1712.	1702.	1583.	1535.	1532.	1526.	1524.	1565.	1626.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		9027.	9817.	9875.	9659.	27341.	27297.	24732.	24885.	25094.
TOTAL CAPITAL COST \$*1,000		2940.	10781.	10764.	9059.	916.	915.	302.	307.	316.
TOTAL COST \$*1,000		11967.	20599.	20639.	18718.	28257.	28212.	25033.	25193.	25410.

	YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE										
DIITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DIITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	44567.00	44316.00	44263.00	43326.00	42776.00	42653.00	41962.00	41752.00	41717.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	64.91	64.91	64.91	64.91	64.91	64.91	64.91	64.91	64.91
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	2893.	2877.	2873.	2812.	2777.	2769.	2724.	2710.	2708.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	2893.	2877.	2873.	2812.	2777.	2769.	2724.	2710.	2708.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	1100.00	1100.00	900.00	300.00	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	136.	136.	111.	37.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	136.	136.	111.	37.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	19127.00	19013.00	19189.00	19364.00	19415.00	19359.00	19045.00	18950.00	18934.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	1298.	1291.	1303.	1315.	1318.	1314.	1293.	1286.	1285.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	1298.	1291.	1303.	1315.	1318.	1314.	1293.	1286.	1285.

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		934.00	934.00	934.00	934.00	934.00	934.00	934.00	934.00	934.00
OPERATING COST \$*1,000		934.	934.	934.	934.	934.	934.	934.	934.	934.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		934.	934.	934.	934.	934.	934.	934.	934.	934.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		9734.00	9734.00	9734.00	9734.00	9734.00	9734.00	9734.00	9734.00	9734.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		1821.33	1821.33	1821.33	1821.33	1821.33	1821.33	1821.33	1821.33	1821.33
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.	17729.

YEAR 14 15 16 17 18 19 20 21 22

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.11 OVERSIZE REJECT DISPOSAL

VOLUME	1000 LCM	1019.00	1013.00	1012.00	991.00	978.00	975.00	960.00	955.00	954.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 LCM	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27	1365.27
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	1391.	1383.	1382.	1353.	1335.	1331.	1311.	1304.	1302.
VOLUME	1000 LCM	1019.00	1013.00	1012.00	991.00	978.00	975.00	960.00	955.00	954.00
UNIT PRICE 2	\$/1000 LCM	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18	227.18
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	231.	230.	230.	225.	222.	222.	218.	217.	217.
SUBTOTAL	\$*1,000	1623.	1613.	1612.	1578.	1557.	1553.	1529.	1521.	1519.

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	24381.	24349.	24331.	24180.	24093.	24077.	23990.	23963.	23958.
TOTAL CAPITAL COST	\$*1,000	231.	230.	230.	225.	222.	222.	218.	217.	217.
TOTAL COST	\$*1,000	24613.	24579.	24561.	24405.	24315.	24298.	24208.	24180.	24175.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	96.80
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1239.20
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	120.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	96.80
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	29.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	149.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1598.10
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	2025.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	1598.10
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	315.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	2339.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	22138.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1051.98
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	23289.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	18048.00
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	203.96
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	3681.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	26970.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	41641.00	41638.00	23847.00	0.	0.	0.	0.	0.	1047502.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	64.91	64.91	64.91	0.	0.	0.	0.	0.	68.18
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	2703.	2703.	1548.	0.	0.	0.	0.	0.	71423.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12813.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	12813.
SUBTOTAL	\$/1,000	2703.	2703.	1548.	0.	0.	0.	0.	0.	84236.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	40900.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5054.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20002.88
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	20003.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	25056.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	18899.00	18898.00	10823.00	0.	0.	0.	0.	0.	434824.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	0.	0.	0.	0.	0.	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1283.	1283.	735.	0.	0.	0.	0.	0.	29518.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1283.	1283.	735.	0.	0.	0.	0.	0.	29518.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		934.00	934.00	840.60	0.	0.	0.	0.	0.	20640.60
OPERATING COST \$*1,000		934.	934.	841.	0.	0.	0.	0.	0.	20641.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	4795.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	4795.
SUBTOTAL	\$*1,000	934.	934.	841.	0.	0.	0.	0.	0.	25436.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	9734.00	9734.00	8760.00	0.	0.	0.	0.	0.	164504.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	1821.33	1821.33	1821.33	0.	0.	0.	0.	0.	1821.33
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		17729.	17729.	15955.	0.	0.	0.	0.	0.	299616.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	23937.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	23937.
SUBTOTAL	\$*1,000	17729.	17729.	15955.	0.	0.	0.	0.	0.	323553.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	12.00
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	134.75
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	435.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	435.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		952.00	952.00	545.00	0.	0.	0.	0.	0.	23954.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1365.27	1365.27	1365.27	0.	0.	0.	0.	0.	1361.85
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		1300.	1300.	744.	0.	0.	0.	0.	0.	32622.
VOLUME 1000 LCM		952.00	952.00	545.00	0.	0.	0.	0.	0.	23954.00
UNIT PRICE 2 \$/1000 LCM		227.18	227.18	227.18	0.	0.	0.	0.	0.	225.65
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		216.	216.	124.	0.	0.	0.	0.	0.	5405.
SUBTOTAL \$*1,000		1516.	1516.	868.	0.	0.	0.	0.	0.	38027.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	4.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	162.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	4.80
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	33.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	196.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		23948.	23948.	19822.	0.	0.	0.	0.	0.	484468.
TOTAL CAPITAL COST \$*1,000		216.	216.	124.	0.	0.	0.	0.	0.	71446.
TOTAL COST \$*1,000		24165.	24164.	19946.	0.	0.	0.	0.	0.	555914.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	94.30	94.30	94.30	94.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	58.	58.	58.	58.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	94.30	94.30	94.30	94.30
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	14.	14.	14.	14.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	72.	72.	72.	72.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	94.30	94.30	94.30	94.30
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.70	0.70	0.70	0.70
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	15.	15.	15.	15.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	66.00	66.00	66.00	66.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	3.	3.	3.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	18.	18.	18.	18.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	94.30	94.30	94.30	94.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	15.	15.	15.	15.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	94.30	94.30	94.30	94.30
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	3.	3.	3.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	18.	18.	18.	18.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.70	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	24.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.70	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	5.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	29.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	188.60	188.60	188.60	188.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	102.	102.	102.	102.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	188.60	188.60	188.60	188.60
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	25.	25.	25.	25.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	127.	127.	127.	127.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	188.60	188.60	188.60	188.60
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.50	0.50	0.50	0.50
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	17.	17.	17.	17.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	94.30	94.30	94.30	94.30
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	3.	3.	3.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	20.	20.	20.	20.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	188.60	188.60	188.60	188.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	27.	27.	27.	27.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	188.60	188.60	188.60	188.60
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	4.	4.	4.	4.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	31.	31.	31.	31.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.50	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	17.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.50	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	20.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	282.90	282.90	282.90	282.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	60.	60.	60.	60.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	282.90	282.90	282.90	282.90
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	13.	13.	13.	13.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	73.	73.	73.	73.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	282.90	282.90	282.90	282.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	122.	122.	122.	122.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	282.90	282.90	282.90	282.90
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	33.	33.	33.	33.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	154.	154.	154.	154.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	282.90	282.90	282.90	282.90
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	1.70	1.70	1.70	1.70
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	102.	102.	102.	102.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	480.90	480.90	480.90	480.90
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	63.	63.	63.	63.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	165.	165.	165.	165.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	282.90	282.90	282.90	282.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	43.	43.	43.	43.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	282.90	282.90	282.90	282.90
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	7.	7.	7.	7.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	50.	50.	50.	50.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	1.70	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	58.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	1.70	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	12.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	69.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	0.	0.	0.	0.	0.	28.30	28.30	28.30	28.30
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	14.19	28.38	42.58	56.77
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	36.	50.	64.	79.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	36.	50.	64.	79.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	694.	610.	624.	639.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	188.	168.	168.	168.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	882.	778.	792.	806.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	106.00	106.00	0.	0.	0.	0.	187.00	187.00	187.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	0.	0.	0.	0.	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	65.	65.	0.	0.	0.	0.	115.	115.	115.
VOLUME	1000 BCM	106.00	106.00	0.	0.	0.	0.	187.00	187.00	187.00
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	0.	0.	0.	0.	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	16.	16.	0.	0.	0.	0.	28.	28.	28.
SUBTOTAL	\$/1,000	81.	81.	0.	0.	0.	0.	143.	143.	143.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	106.00	106.00	0.	0.	0.	0.	187.00	187.00	187.00
HAUL DISTANCE	KM	0.70	0.70	0.	0.	0.	0.	0.59	0.59	0.59
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	0.	0.	0.	0.	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17.	17.	0.	0.	0.	0.	25.	25.	25.
VOLUME*DISTANCE	1000 BCM*KM	74.20	74.20	0.	0.	0.	0.	110.30	110.30	110.30
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	0.	0.	0.	0.	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	3.	0.	0.	0.	0.	5.	5.	5.
SUBTOTAL	\$/1,000	20.	20.	0.	0.	0.	0.	29.	29.	29.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	106.00	106.00	0.	0.	0.	0.	187.00	187.00	187.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	0.	0.	0.	0.	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17.	17.	0.	0.	0.	0.	31.	31.	31.
VOLUME	1000 BCM	106.00	106.00	0.	0.	0.	0.	187.00	187.00	187.00
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	0.	0.	0.	0.	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	3.	0.	0.	0.	0.	5.	5.	5.
SUBTOTAL	\$/1,000	20.	20.	0.	0.	0.	0.	36.	36.	36.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	1.20	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	41.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	1.20	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	8.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	49.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	212.00	212.00	0.	0.	0.	0.	374.00	374.00	374.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	0.	0.	0.	0.	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	115.	115.	0.	0.	0.	0.	203.	203.	203.
VOLUME	1000 BCM	212.00	212.00	0.	0.	0.	0.	374.00	374.00	374.00
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	0.	0.	0.	0.	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	28.	28.	0.	0.	0.	0.	49.	49.	49.
SUBTOTAL	\$/1,000	143.	143.	0.	0.	0.	0.	252.	252.	252.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	212.00	212.00	0.	0.	0.	0.	374.00	374.00	374.00
HAUL DISTANCE	KM	0.50	0.50	0.	0.	0.	0.	1.57	1.57	1.57
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	0.	0.	0.	0.	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	19.	19.	0.	0.	0.	0.	105.	105.	105.
VOLUME*DISTANCE	1000 BCM*KM	106.00	106.00	0.	0.	0.	0.	587.20	587.20	587.20
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	0.	0.	0.	0.	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	4.	4.	0.	0.	0.	0.	20.	20.	20.
SUBTOTAL	\$/1,000	23.	23.	0.	0.	0.	0.	125.	125.	125.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	212.00	212.00	0.	0.	0.	0.	374.00	374.00	374.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	0.	0.	0.	0.	140.93	140.93	140.93
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	30.	30.	0.	0.	0.	0.	53.	53.	53.
VOLUME	1000 BCM	212.00	212.00	0.	0.	0.	0.	374.00	374.00	374.00
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	0.	0.	0.	0.	22.92	22.92	22.92
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	5.	5.	0.	0.	0.	0.	9.	9.	9.
SUBTOTAL	\$/1000	35.	35.	0.	0.	0.	0.	61.	61.	61.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	3.00	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	101.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	3.00	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	21.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	122.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	318.00	318.00	0.	0.	0.	0.	561.00	561.00	561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	0.	0.	0.	0.	211.57	211.57	211.57
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	67.	67.	0.	0.	0.	0.	119.	119.	119.
VOLUME	1000 BCM	318.00	318.00	0.	0.	0.	0.	561.00	561.00	561.00
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	0.	0.	0.	0.	47.66	47.66	47.66
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	15.	15.	0.	0.	0.	0.	27.	27.	27.
SUBTOTAL	\$/1000	82.	82.	0.	0.	0.	0.	145.	145.	145.
5.11 PREPARED SOIL LOADING, F.F.L. TRUCKS										
VOLUME	1000 BCM	318.00	318.00	0.	0.	0.	0.	561.00	561.00	561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	0.	0.	0.	0.	430.12	430.12	430.12
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	137.	137.	0.	0.	0.	0.	241.	241.	241.
VOLUME	1000 BCM	318.00	318.00	0.	0.	0.	0.	561.00	561.00	561.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	0.	0.	0.	0.	115.03	115.03	115.03
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	37.	37.	0.	0.	0.	0.	65.	65.	65.
SUBTOTAL	\$/1000	173.	173.	0.	0.	0.	0.	306.	306.	306.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	318.00	318.00	0.	0.	0.	0.	561.00	561.00	561.00
HAUL DISTANCE	KM	1.70	1.70	0.	0.	0.	0.	3.45	3.45	3.45
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	0.	0.	0.	0.	212.40	212.40	212.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	115.	115.	0.	0.	0.	0.	411.	411.	411.
VOLUME*DISTANCE	1000 BCM*KM	540.60	540.60	0.	0.	0.	0.	1935.50	1935.50	1935.50
UNIT PRICE 2	\$/1000 BCM*KM	131.26	131.26	0.	0.	0.	0.	131.26	131.26	131.26
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	71.	71.	0.	0.	0.	0.	254.	254.	254.
SUBTOTAL	\$/1000	186.	186.	0.	0.	0.	0.	665.	665.	665.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	318.00	318.00	0.	0.	0.	0.	561.00	561.00	561.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	0.	0.	0.	0.	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	48.	48.	0.	0.	0.	0.	84.	84.	84.
VOLUME	1000 BCM	318.00	318.00	0.	0.	0.	0.	561.00	561.00	561.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	0.	0.	0.	0.	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	8.	0.	0.	0.	0.	14.	14.	14.
SUBTOTAL	\$/1,000	56.	56.	0.	0.	0.	0.	98.	98.	98.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	6.81	1.81	1.81
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	230.	61.	61.
LENGTH	KM	0.	0.	0.	0.	0.	0.	6.81	1.81	1.81
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	47.	13.	13.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	277.	74.	74.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	31.80	31.80	0.	0.	0.	0.	56.10	56.10	56.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	0.	0.	0.	0.	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	72.71	88.66	0.	0.	0.	0.	136.97	165.11	193.24
OPERATING COST	\$/1,000	97.	113.	0.	0.	0.	0.	180.	208.	236.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	97.	113.	0.	0.	0.	0.	180.	208.	236.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	727.	743.	0.	0.	0.	0.	1938.	1655.	1684.
TOTAL CAPITAL COST	\$/1,000	189.	189.	0.	0.	0.	0.	550.	487.	487.
TOTAL COST	\$/1,000	915.	931.	0.	0.	0.	0.	2489.	2142.	2170.

		YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM		220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		135.	135.	135.	135.	302.	302.	302.	302.	302.
VOLUME	1000 BCM		220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
UNIT PRICE 2	\$/1000 BCM		149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		33.	33.	33.	33.	73.	73.	73.	73.	73.
SUBTOTAL	\$/1,000		168.	168.	168.	168.	375.	375.	375.	375.	375.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
HAUL DISTANCE	KM		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
UNIT PRICE 1	\$/1000 BCM*KM		224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		25.	25.	25.	25.	55.	55.	55.	55.	55.
VOLUME*DISTANCE	1000 BCM*KM		110.00	110.00	110.00	110.00	245.20	245.20	245.20	245.20	245.20
UNIT PRICE 2	\$/1000 BCM*KM		42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		5.	5.	5.	5.	10.	10.	10.	10.	10.
SUBTOTAL	\$/1,000		29.	29.	29.	29.	65.	65.	65.	65.	65.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM		220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	615.19
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		36.	36.	36.	36.	80.	80.	80.	80.	302.
VOLUME	1000 BCM		220.00	220.00	220.00	220.00	490.40	490.40	490.40	490.40	490.40
UNIT PRICE 2	\$/1000 BCM		26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		6.	6.	6.	6.	13.	13.	13.	13.	13.
SUBTOTAL	\$/1,000		42.	42.	42.	42.	93.	93.	93.	93.	315.

	YEAR	14	15	16	17	18	19	20	21	22
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.50	0.	0.	0.	0.	0.	0.	0.50	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	0.	0.	0.	33825.11	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	17.	0.	0.	0.	0.	0.	0.	17.	0.
DISTANCE	KM	0.50	0.	0.	0.	0.	0.	0.	0.50	0.
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	0.	0.	0.	6915.90	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	3.	0.	0.	0.	0.	0.	0.	3.	0.
SUBTOTAL	\$/1000	20.	0.	0.	0.	0.	0.	0.	20.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	238.	238.	238.	238.	531.	531.	531.	531.	531.
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	58.	58.	58.	58.	129.	129.	129.	129.	129.
SUBTOTAL	\$/1000	296.	296.	296.	296.	660.	660.	660.	660.	660.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
HAUL DISTANCE	KM	1.29	1.29	1.29	1.29	0.88	0.88	0.88	2.92	2.92
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	101.	101.	101.	101.	154.	154.	154.	511.	511.
VOLUME*DISTANCE	1000 BCM*KM	567.60	567.60	567.60	567.60	863.10	863.10	863.10	2863.90	2863.90
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	19.	19.	19.	19.	29.	29.	29.	97.	97.
SUBTOTAL	\$/1000	121.	121.	121.	121.	183.	183.	183.	609.	609.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	62.	62.	62.	62.	138.	138.	138.	138.	138.
VOLUME	1000 BCM	440.00	440.00	440.00	440.00	980.80	980.80	980.80	980.80	980.80
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	10.	10.	10.	10.	22.	22.	22.	22.	22.
SUBTOTAL	\$/1,000	72.	72.	72.	72.	161.	161.	161.	161.	161.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.50	0.	0.	0.	0.50	0.	0.	3.67	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	33825.11	0.	0.	33825.11	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17.	0.	0.	0.	17.	0.	0.	124.	0.
DISTANCE	KM	0.50	0.	0.	0.	0.50	0.	0.	3.67	0.
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	6915.90	0.	0.	6915.90	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	3.	0.	0.	0.	3.	0.	0.	25.	0.
SUBTOTAL	\$/1,000	20.	0.	0.	0.	20.	0.	0.	150.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	140.	140.	140.	140.	311.	311.	311.	311.	311.
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
UNIT PRICE 2	\$/1000 BCM	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	31.	31.	31.	31.	70.	70.	70.	70.	70.
SUBTOTAL	\$/1,000	171.	171.	171.	171.	381.	381.	381.	381.	381.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	284.	284.	284.	284.	633.	633.	633.	633.	633.
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	76.	76.	76.	76.	169.	169.	169.	169.	169.
SUBTOTAL	\$/1,000	360.	360.	360.	360.	802.	802.	802.	802.	802.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
HAUL DISTANCE	KM	3.66	3.66	3.66	3.66	4.95	4.95	4.95	3.44	3.44
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	513.	513.	513.	513.	1547.	1547.	1547.	1075.	1075.
VOLUME*DISTANCE	1000 BCM*KM	2415.60	2415.60	2415.60	2415.60	7282.40	7282.40	7282.40	5060.90	5060.90
UNIT PRICE 2	\$/1000 BCM*KM	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	317.	317.	317.	317.	956.	956.	956.	664.	664.
SUBTOTAL	\$/1,000	830.	830.	830.	830.	2503.	2503.	2503.	1739.	1739.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	99.	99.	99.	99.	222.	222.	222.	222.	222.
VOLUME	1000 BCM	660.00	660.00	660.00	660.00	1471.20	1471.20	1471.20	1471.20	1471.20
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	16.	16.	16.	16.	36.	36.	36.	36.	36.
SUBTOTAL	*\$1,000	116.	116.	116.	116.	258.	258.	258.	258.	258.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	1.81	1.81	1.81	1.81	6.67	6.67	6.67	6.67	6.67
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	*\$1,000	61.	61.	61.	61.	226.	226.	226.	226.	226.
LENGTH	KM	1.81	1.81	1.81	1.81	6.67	6.67	6.67	6.67	6.67
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	13.	13.	13.	13.	46.	46.	46.	46.	46.
SUBTOTAL	*\$1,000	74.	74.	74.	74.	272.	272.	272.	272.	272.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	66.00	66.00	66.00	66.00	147.10	147.10	147.10	147.10	147.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	*\$1,000	226.34	259.44	292.54	325.64	449.84	523.61	597.38	600.55	674.32
OPERATING COST	*\$1,000	277.	310.	343.	376.	563.	637.	710.	714.	787.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	*\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	*\$1,000	277.	310.	343.	376.	563.	637.	710.	714.	787.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	*\$1,000	2006.	2005.	2038.	2071.	4778.	4835.	4909.	4938.	5093.
TOTAL CAPITAL COST	*\$1,000	591.	584.	584.	584.	1558.	1555.	1555.	1360.	1331.
TOTAL COST	*\$1,000	2596.	2589.	2622.	2655.	6336.	6390.	6463.	6298.	6424.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7953.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	334.	334.	334.	334.	334.	155.	155.	155.	4893.
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7953.70
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	81.	81.	81.	81.	81.	37.	37.	37.	1185.
SUBTOTAL	\$/1,000	415.	415.	415.	415.	415.	192.	192.	192.	6078.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.20	251.50	7953.40
HAUL DISTANCE	KM	0.50	0.50	0.50	0.50	0.50	1.00	1.00	2.50	0.62
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	61.	61.	61.	61.	61.	56.	56.	141.	1100.
VOLUME*DISTANCE	1000 BCM*KM	271.70	271.70	271.70	271.70	271.70	251.50	251.50	628.75	4899.55
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	12.	12.	12.	12.	12.	11.	11.	27.	208.
SUBTOTAL	\$/1,000	73.	73.	73.	73.	73.	67.	67.	168.	1308.
5.3 MUSKEG REMANDLE PLACEMENT										
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7953.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	191.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	89.	89.	89.	89.	89.	41.	41.	41.	1520.
VOLUME	1000 BCM	543.40	543.40	543.40	543.40	543.40	251.50	251.50	251.50	7953.70
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	14.	14.	14.	14.	14.	7.	7.	7.	212.
SUBTOTAL	\$/1,000	103.	103.	103.	103.	103.	48.	48.	48.	1732.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	1.00	0.	3.70	7.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	34.	0.	125.	257.
DISTANCE	KM	0.	0.	0.	0.	0.	1.00	0.	3.70	7.60
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	7.	0.	26.	53.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	41.	0.	151.	310.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15864.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	589.	589.	589.	589.	589.	265.	265.	265.	8592.
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15864.20
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	143.	143.	143.	143.	143.	64.	64.	64.	2087.
SUBTOTAL	\$/1,000	732.	732.	732.	732.	732.	329.	329.	329.	10678.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15864.20
HAUL DISTANCE	KM	3.00	3.00	3.00	3.00	3.00	0.70	0.70	0.70	1.91
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	582.	582.	582.	582.	582.	61.	61.	61.	5404.
VOLUME*DISTANCE	1000 BCM*KM	3260.40	3260.40	3260.40	3260.40	3260.40	342.00	342.00	342.00	30266.30
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	111.	111.	111.	111.	111.	12.	12.	12.	1029.
SUBTOTAL	\$/1,000	693.	693.	693.	693.	693.	73.	73.	73.	6433.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15864.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	153.	153.	153.	153.	153.	69.	69.	69.	2236.
VOLUME	1000 BCM	1086.80	1086.80	1086.80	1086.80	1086.80	488.60	488.60	488.60	15864.20
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	25.	25.	25.	25.	25.	11.	11.	11.	364.
SUBTOTAL	\$/1,000	178.	178.	178.	178.	178.	80.	80.	80.	2599.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.50	0.	0.	0.70	0.	0.	9.37
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	33825.11	0.	0.	33825.11	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	17.	0.	0.	24.	0.	0.	317.
DISTANCE	KM	0.	0.	0.50	0.	0.	0.70	0.	0.	9.37
UNIT PRICE 2	\$/KM	0.	0.	6915.90	0.	0.	6915.90	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	3.	0.	0.	5.	0.	0.	65.
SUBTOTAL	\$/1,000	0.	0.	20.	0.	0.	29.	0.	0.	382.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23817.90
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57	211.57
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		345.	345.	345.	345.	345.	157.	157.	157.	5039.
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23817.90
UNIT PRICE 2	\$/1000 BCM		47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66	47.66
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		78.	78.	78.	78.	78.	35.	35.	35.	1135.
SUBTOTAL	\$/1000		423.	423.	423.	423.	423.	192.	192.	192.	6174.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23817.90
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		701.	701.	701.	701.	701.	318.	318.	318.	10245.
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23817.90
UNIT PRICE 2	\$/1000 BCM		115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		188.	188.	188.	188.	188.	85.	85.	85.	2740.
SUBTOTAL	\$/1000		889.	889.	889.	889.	889.	403.	403.	403.	12984.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM		1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23817.90
HAUL DISTANCE	KM		2.71	2.71	2.71	2.71	2.71	1.50	1.50	1.50	3.19
UNIT PRICE 1	\$/1000 BCM*KM		212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		938.	938.	938.	938.	938.	236.	236.	236.	16113.
VOLUME*DISTANCE	1000 BCM*KM		4417.80	4417.80	4417.80	4417.80	4417.80	1110.15	1110.15	1110.15	75862.15
UNIT PRICE 2	\$/1000 BCM*KM		131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26	131.26
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		580.	580.	580.	580.	580.	146.	146.	146.	9958.
SUBTOTAL	\$/1000		1518.	1518.	1518.	1518.	1518.	382.	382.	382.	26071.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23817.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	245.	245.	245.	245.	245.	111.	111.	111.	3586.
VOLUME	1000 BCM	1630.20	1630.20	1630.20	1630.20	1630.20	740.10	740.10	740.10	23817.90
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	40.	40.	40.	40.	40.	18.	18.	18.	584.
SUBTOTAL	\$/1,000	285.	285.	285.	285.	285.	130.	130.	130.	4170.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	7.63	7.63	7.63	7.63	7.63	1.00	0.	0.	91.87
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	258.	258.	258.	258.	258.	34.	0.	0.	3108.
LENGTH	KM	7.63	7.63	7.63	7.63	7.63	1.00	0.	0.	91.87
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	53.	53.	53.	53.	53.	7.	0.	0.	635.
SUBTOTAL	\$/1,000	311.	311.	311.	311.	311.	41.	0.	0.	3743.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	163.00	163.00	163.00	163.00	163.00	74.00	74.00	74.00	2381.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	756.06	837.81	919.55	1001.29	1083.04	1120.15	1157.26	1194.37	12817.81
OPERATING COST	\$/1,000	881.	963.	1045.	1126.	1208.	1177.	1214.	1251.	14647.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	881.	963.	1045.	1126.	1208.	1177.	1214.	1251.	14647.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	5177.	5259.	5358.	5422.	5504.	2737.	2683.	2930.	77056.
TOTAL CAPITAL COST	\$/1,000	1324.	1324.	1327.	1324.	1324.	445.	426.	468.	20253.
TOTAL COST	\$/1,000	6501.	6582.	6685.	6746.	6828.	3182.	3109.	3398.	97310.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE											
NO. OF PERSONS	PERSONS		4.00	9.00	22.00	43.00	65.00	86.00	86.00	86.00	86.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		120.	270.	659.	1289.	1948.	2577.	2577.	2577.	2577.
6.2 PLANNING											
NO. OF PERSONS	PERSONS		4.00	7.00	18.00	36.00	54.00	72.00	72.00	72.00	72.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		120.	211.	542.	1083.	1625.	2166.	2166.	2166.	2166.
6.3 MINING											
NO. OF PERSONS	PERSONS		3.00	7.00	18.00	35.00	53.00	70.00	70.00	70.00	70.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		90.	210.	541.	1052.	1593.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$*1,000		330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000		330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.

		YEAR	5	6	7	8	9	10	11	12	13
6.1 EQUIPMENT MAINTENANCE											
NO. OF PERSONS	PERSONS		86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING											
NO. OF PERSONS	PERSONS		72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
6.3 MINING											
NO. OF PERSONS	PERSONS		70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/PERSON		6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON		6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.	2577.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.	2166.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.	2105.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/PERSON	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
TOTAL CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	86.00	86.00	86.00	18.00	18.00	18.00	18.00	18.00	2383.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00	29970.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2577.	2577.	2577.	539.	539.	539.	539.	539.	71419.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	72.00	72.00	72.00	14.00	14.00	14.00	14.00	14.00	1989.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00	30090.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2166.	2166.	2166.	421.	421.	421.	421.	421.	59849.
6.3 MINING										
NO. OF PERSONS	PERSONS	70.00	70.00	70.00	5.00	5.00	5.00	5.00	5.00	1891.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00	30065.00
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON	2105.	2105.	2105.	150.	150.	150.	150.	150.	56853.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/PERSON	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL CAPITAL COST	\$/PERSON	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	733.	791.	847.	847.	847.	847.
CAPITAL COST	\$*1,000	0.	4205.	5914.	0.	1710.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	4205.	5914.	733.	2501.	847.	847.	847.	847.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2416.	1585.	1288.	1964.	1353.	1651.	2619.	2038.	1193.
CAPITAL COST	\$*1,000	412.	277.	237.	370.	246.	304.	485.	376.	219.
SUBTOTAL	\$*1,000	2828.	1863.	1524.	2334.	1599.	1955.	3103.	2414.	1412.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	6176.	7698.	13946.	21885.	22366.	22596.
CAPITAL COST	\$*1,000	12251.	12250.	27433.	40994.	26555.	12889.	17908.	0.	2623.
SUBTOTAL	\$*1,000	12251.	12250.	27433.	47170.	34253.	26835.	39793.	22366.	25219.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	42.	100.	798.	4723.	4490.	4366.	5051.	5847.	6283.
CAPITAL COST	\$*1,000	7.	24.	4397.	4385.	5950.	4208.	6575.	4843.	2187.
SUBTOTAL	\$*1,000	49.	124.	5195.	9108.	10440.	8574.	11626.	10690.	8470.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	694.	610.	624.	639.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	188.	168.	168.	168.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	882.	778.	792.	806.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	330.	691.	1742.	3424.	5166.	6848.	6848.	6848.	6848.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	2788.	2376.	3828.	17020.	19498.	28352.	37860.	38570.	38406.
TOTAL CAPITAL COST	\$*1,000	12669.	16757.	37980.	45749.	34460.	17589.	25136.	5387.	5196.
TOTAL COST	\$*1,000	15458.	19133.	41809.	62769.	53959.	45941.	62996.	43957.	43603.

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	847.	847.	847.	847.	847.	847.	847.	847.	847.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	847.	847.	847.	847.	847.	847.	847.	847.	847.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	733.	630.	815.	695.	1364.	838.	641.	569.	404.
CAPITAL COST	\$*1,000	133.	114.	144.	127.	261.	155.	117.	104.	73.
SUBTOTAL	\$*1,000	866.	744.	958.	821.	1624.	993.	758.	673.	478.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	23777.	22959.	21784.	21322.	20607.	19518.	19467.	19352.	19659.
CAPITAL COST	\$*1,000	6499.	723.	0.	0.	2623.	0.	0.	0.	723.
SUBTOTAL	\$*1,000	30276.	23682.	21784.	21322.	23230.	19518.	19467.	19352.	20382.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	9027.	9817.	9875.	9659.	27341.	27297.	24732.	24885.	25094.
CAPITAL COST	\$*1,000	2940.	10781.	10764.	9059.	916.	915.	302.	307.	316.
SUBTOTAL	\$*1,000	11967.	20599.	20639.	18718.	28257.	28212.	25033.	25193.	25410.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	727.	743.	0.	0.	0.	0.	1938.	1655.	1684.
CAPITAL COST	\$*1,000	189.	189.	0.	0.	0.	0.	550.	487.	487.
SUBTOTAL	\$*1,000	915.	931.	0.	0.	0.	0.	2489.	2142.	2170.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	41959.	41844.	40169.	39371.	57007.	55349.	54474.	54157.	54537.
TOTAL CAPITAL COST	\$*1,000	9761.	11807.	10908.	9186.	3800.	1070.	969.	898.	1599.
TOTAL COST	\$*1,000	51719.	53651.	51076.	48557.	60807.	56419.	55443.	55055.	56136.

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	847.	847.	847.	847.	847.	847.	847.	847.	847.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	847.	847.	847.	847.	847.	847.	847.	847.	847.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	321.	152.	219.	226.	314.	487.	510.	471.	781.
CAPITAL COST	\$*1,000	58.	26.	39.	40.	56.	86.	93.	87.	145.
SUBTOTAL	\$*1,000	379.	178.	258.	265.	370.	573.	603.	558.	926.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	19570.	19243.	19174.	19171.	19170.	19572.	19463.	19902.	20065.
CAPITAL COST	\$*1,000	3635.	0.	0.	0.	0.	2623.	723.	0.	0.
SUBTOTAL	\$*1,000	23205.	19243.	19174.	19171.	19170.	22195.	20186.	19902.	20065.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	24381.	24349.	24331.	24180.	24093.	24077.	23990.	23963.	23958.
CAPITAL COST	\$*1,000	231.	230.	230.	225.	222.	222.	218.	217.	217.
SUBTOTAL	\$*1,000	24613.	24579.	24561.	24405.	24315.	24298.	24208.	24180.	24175.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	2006.	2005.	2038.	2071.	4778.	4835.	4909.	4938.	5093.
CAPITAL COST	\$*1,000	591.	584.	584.	584.	1558.	1555.	1555.	1360.	1331.
SUBTOTAL	\$*1,000	2596.	2589.	2622.	2655.	6336.	6390.	6463.	6298.	6424.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.	6848.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	53973.	53444.	53458.	53343.	56050.	56667.	56567.	56970.	57593.
TOTAL CAPITAL COST	\$*1,000	4515.	840.	852.	848.	1836.	4485.	2589.	1664.	1693.
TOTAL COST	\$*1,000	58488.	54284.	54310.	54192.	57887.	61152.	59156.	58634.	59286.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	847.	847.	785.	37.	37.	37.	37.	37.	22822.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	11829.
SUBTOTAL	\$*1,000	847.	847.	785.	37.	37.	37.	37.	37.	34651.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	26276.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	4781.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	31056.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	20432.	17241.	8610.	0.	0.	0.	0.	0.	504725.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	170452.
SUBTOTAL	\$*1,000	20432.	17241.	8610.	0.	0.	0.	0.	0.	675177.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	23948.	23948.	19822.	0.	0.	0.	0.	0.	484468.
CAPITAL COST	\$*1,000	216.	216.	124.	0.	0.	0.	0.	0.	71446.
SUBTOTAL	\$*1,000	24165.	24164.	19946.	0.	0.	0.	0.	0.	555914.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	5177.	5259.	5358.	5422.	5504.	2737.	2683.	2930.	77056.
CAPITAL COST	\$*1,000	1324.	1324.	1327.	1324.	1324.	445.	426.	468.	20253.
SUBTOTAL	\$*1,000	6501.	6582.	6685.	6746.	6828.	3182.	3109.	3398.	97310.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	6848.	6848.	6848.	1111.	1111.	1111.	1111.	1111.	188120.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	57253.	54143.	41423.	6570.	6652.	3885.	3831.	4078.	1303468.
TOTAL CAPITAL COST	\$*1,000	1540.	1540.	1451.	1324.	1324.	445.	426.	468.	278760.
TOTAL COST	\$*1,000	58792.	55683.	42874.	7894.	7976.	4330.	4257.	4546.	1582228.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 RWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	501.	491.	478.	435.	395.	359.
CAPITAL COST	\$*1,000	0.	3475.	4443.	0.	1062.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	3475.	4443.	501.	1553.	478.	435.	395.	359.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2196.	1310.	967.	1341.	840.	932.	1344.	951.	506.
CAPITAL COST	\$*1,000	374.	229.	178.	252.	153.	172.	249.	175.	93.
SUBTOTAL	\$*1,000	2571.	1539.	1145.	1594.	993.	1104.	1593.	1126.	599.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	4219.	4780.	7872.	11231.	10434.	9583.
CAPITAL COST	\$*1,000	11137.	10124.	20611.	27999.	16488.	7276.	9190.	0.	1112.
SUBTOTAL	\$*1,000	11137.	10124.	20611.	32218.	21268.	15148.	20420.	10434.	10695.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	38.	83.	600.	3226.	2788.	2464.	2592.	2728.	2665.
CAPITAL COST	\$*1,000	6.	20.	3303.	2995.	3694.	2375.	3374.	2259.	927.
SUBTOTAL	\$*1,000	44.	103.	3903.	6221.	6482.	4840.	5966.	4987.	3592.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	392.	313.	291.	271.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	106.	86.	78.	71.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	498.	399.	370.	342.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	300.	571.	1309.	2339.	3208.	3866.	3514.	3195.	2904.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	2535.	1964.	2876.	11625.	12107.	16004.	19428.	17993.	16288.
TOTAL CAPITAL COST	\$*1,000	11518.	13848.	28535.	31247.	21397.	9929.	12899.	2513.	2204.
TOTAL COST	\$*1,000	14053.	15812.	31411.	42872.	33504.	25933.	32327.	20506.	18492.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	327.	297.	270.	245.	223.	203.	184.	168.	152.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	327.	297.	270.	245.	223.	203.	184.	168.	152.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	283.	221.	260.	201.	359.	201.	139.	113.	73.
CAPITAL COST	\$*1,000	51.	40.	46.	37.	69.	37.	25.	21.	13.
SUBTOTAL	\$*1,000	334.	261.	305.	238.	428.	238.	165.	133.	86.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	9167.	8047.	6941.	6176.	5426.	4672.	4237.	3829.	3536.
CAPITAL COST	\$*1,000	2506.	253.	0.	0.	691.	0.	0.	0.	130.
SUBTOTAL	\$*1,000	11673.	8300.	6941.	6176.	6117.	4672.	4237.	3829.	3666.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	3480.	3441.	3146.	2798.	7200.	6535.	5382.	4923.	4513.
CAPITAL COST	\$*1,000	1133.	3779.	3430.	2624.	241.	219.	66.	61.	57.
SUBTOTAL	\$*1,000	4614.	7220.	6576.	5422.	7441.	6754.	5448.	4984.	4570.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	280.	260.	0.	0.	0.	0.	422.	328.	303.
CAPITAL COST	\$*1,000	73.	66.	0.	0.	0.	0.	120.	96.	88.
SUBTOTAL	\$*1,000	353.	326.	0.	0.	0.	0.	542.	424.	390.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2640.	2400.	2182.	1984.	1803.	1639.	1490.	1355.	1232.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	16177.	14666.	12799.	11404.	15012.	13250.	11855.	10715.	9809.
TOTAL CAPITAL COST	\$*1,000	3763.	4138.	3476.	2661.	1001.	256.	211.	178.	288.
TOTAL COST	\$*1,000	19940.	18804.	16275.	14065.	16012.	13506.	12066.	10892.	10096.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	138.	126.	114.	104.	95.	86.	78.	71.	65.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	138.	126.	114.	104.	95.	86.	78.	71.	65.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	52.	23.	30.	28.	35.	49.	47.	40.	60.
CAPITAL COST	\$*1,000	9.	4.	5.	5.	6.	9.	9.	7.	11.
SUBTOTAL	\$*1,000	62.	26.	35.	33.	41.	58.	56.	47.	71.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	3200.	2860.	2591.	2355.	2141.	1987.	1796.	1670.	1531.
CAPITAL COST	\$*1,000	594.	0.	0.	0.	0.	266.	67.	0.	0.
SUBTOTAL	\$*1,000	3794.	2860.	2591.	2355.	2141.	2253.	1863.	1670.	1531.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	3987.	3619.	3288.	2970.	2691.	2444.	2214.	2011.	1827.
CAPITAL COST	\$*1,000	38.	34.	31.	28.	25.	22.	20.	18.	17.
SUBTOTAL	\$*1,000	4024.	3654.	3319.	2998.	2715.	2467.	2234.	2029.	1844.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	328.	298.	275.	254.	534.	491.	453.	414.	388.
CAPITAL COST	\$*1,000	97.	87.	79.	72.	174.	158.	144.	114.	102.
SUBTOTAL	\$*1,000	425.	385.	354.	326.	708.	649.	597.	528.	490.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1120.	1018.	925.	841.	765.	695.	632.	575.	522.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	8825.	7944.	7224.	6553.	6260.	5753.	5221.	4780.	4393.
TOTAL CAPITAL COST	\$*1,000	738.	125.	115.	104.	205.	455.	239.	140.	129.
TOTAL COST	\$*1,000	9563.	8069.	7339.	6657.	6465.	6208.	5460.	4920.	4522.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.4 IMPROVED LEVEL (3 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES											
OPERATING COST	\$*1,000		59.	53.	45.	2.	2.	2.	1.	1.	5770.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	8980.
SUBTOTAL	\$*1,000		59.	53.	45.	2.	2.	2.	1.	1.	14750.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS											
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	12600.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	2279.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	14879.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING											
OPERATING COST	\$*1,000		1417.	1087.	493.	0.	0.	0.	0.	0.	123277.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	108445.
SUBTOTAL	\$*1,000		1417.	1087.	493.	0.	0.	0.	0.	0.	231722.
COST CENTRE 4: TAILINGS DISPOSAL											
OPERATING COST	\$*1,000		1661.	1510.	1136.	0.	0.	0.	0.	0.	87960.
CAPITAL COST	\$*1,000		15.	14.	7.	0.	0.	0.	0.	0.	30834.
SUBTOTAL	\$*1,000		1676.	1523.	1143.	0.	0.	0.	0.	0.	118794.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES											
OPERATING COST	\$*1,000		359.	332.	307.	282.	261.	118.	105.	104.	8164.
CAPITAL COST	\$*1,000		92.	83.	76.	69.	63.	19.	17.	17.	2244.
SUBTOTAL	\$*1,000		451.	415.	383.	351.	323.	137.	122.	121.	10408.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES											
OPERATING COST	\$*1,000		475.	432.	392.	58.	53.	48.	43.	40.	46567.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		475.	432.	392.	58.	53.	48.	43.	40.	46567.
TOTAL COSTS											
TOTAL OPERATING COST	\$*1,000		3970.	3413.	2374.	342.	315.	167.	150.	145.	284337.
TOTAL CAPITAL COST	\$*1,000		107.	97.	83.	69.	63.	19.	17.	17.	152782.
TOTAL COST	\$*1,000		4077.	3510.	2457.	411.	378.	186.	167.	162.	437119.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

9.0

240,000 BPCD

Bucket Wheel Mine

Minimum Level

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	905.00	1792.00	1792.00	1792.00	1792.00	1792.00
OPERATING COST \$*1,000		0.	0.	0.	905.	1792.	1792.	1792.	1792.	1792.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	8008.00	15944.00	7934.00	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	8008.	15944.	7934.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	8008.	15944.	8839.	1792.	1792.	1792.	1792.	1792.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		0.	0.	0.	197.00	296.00	392.00	392.00	392.00	392.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	197.	296.	392.	392.	392.	392.
NO. OF PERSONS PERSONS		0.	0.	196.00	0.	196.00	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	15000.00	0.	15000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	2940.	0.	2940.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	2940.	197.	3236.	392.	392.	392.	392.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	1102.	2088.	2184.	2184.	2184.	2184.
TOTAL CAPITAL COST \$*1,000		0.	8008.	18884.	7934.	2940.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	8008.	18884.	9036.	5028.	2184.	2184.	2184.	2184.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1792.00	1792.00	1792.00	1792.00	1792.00	1792.00	1792.00	1792.00	1792.00
OPERATING COST \$*1,000		1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		392.00	392.00	392.00	392.00	392.00	392.00	392.00	392.00	392.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		392.	392.	392.	392.	392.	392.	392.	392.	392.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		392.	392.	392.	392.	392.	392.	392.	392.	392.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1792.00	1792.00	1792.00	1792.00	1792.00	1792.00	1792.00	1792.00	1792.00
OPERATING COST \$*1,000		1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.	1792.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		392.00	392.00	392.00	392.00	392.00	392.00	392.00	392.00	392.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		392.	392.	392.	392.	392.	392.	392.	392.	392.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		392.	392.	392.	392.	392.	392.	392.	392.	392.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 RWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		1792.00	1792.00	1792.00	1171.00	0.	0.	0.	0.	48668.00
OPERATING COST \$*1,000		1792.	1792.	1792.	1171.	0.	0.	0.	0.	48668.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	31886.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	31886.
SUBTOTAL	\$*1,000	1792.	1792.	1792.	1171.	0.	0.	0.	0.	80554.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		392.00	392.00	392.00	392.00	50.00	50.00	50.00	50.00	10885.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		392.	392.	392.	392.	50.	50.	50.	50.	10885.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	392.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	5880.
SUBTOTAL	\$*1,000	392.	392.	392.	392.	50.	50.	50.	50.	16765.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		2184.	2184.	2184.	1563.	50.	50.	50.	50.	59553.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	37766.
TOTAL COST \$*1,000		2184.	2184.	2184.	1563.	50.	50.	50.	50.	97319.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING										
AREA	HECTARES	1540.10	1107.90	1236.25	287.50	240.60	437.10	211.90	241.25	396.25
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1951.	1404.	1566.	364.	305.	554.	268.	306.	502.
AREA	HECTARES	1540.10	1107.90	1236.25	287.50	240.60	437.10	211.90	241.25	396.25
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	303.	218.	243.	57.	47.	86.	42.	47.	78.
SUBTOTAL	\$/1,000	2254.	1622.	1809.	421.	352.	640.	310.	353.	580.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	164.04	0.	36.35	165.10	132.00	122.00	97.20	56.40	52.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	0.	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	303.	0.	67.	305.	244.	226.	180.	104.	97.
DITCH VOLUME	1000 BCM	164.04	0.	36.35	165.10	132.00	122.00	97.20	56.40	52.20
UNIT PRICE 2	\$/1000 BCM	300.00	0.	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	49.	0.	11.	50.	40.	37.	29.	17.	16.
SUBTOTAL	\$/1,000	353.	0.	78.	355.	284.	262.	209.	121.	112.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	0.	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	348.	64.	1921.	0.	412.	2655.	2256.	1990.	1724.
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	0.	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	85.	16.	467.	0.	100.	646.	549.	484.	419.
SUBTOTAL	\$/1,000	433.	79.	2388.	0.	513.	3301.	2805.	2474.	2143.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
HAUL DISTANCE	KM	1.10	2.75	2.60	0.	4.70	3.48	3.85	2.70	3.10
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	0.	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	113.	52.	1471.	0.	571.	2722.	2559.	1583.	1574.
VOLUME*DISTANCE	1000 BCM*KM	450.10	206.25	5866.25	0.	2276.70	10853.25	10202.50	6311.25	6277.50
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	0.	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	22.	10.	286.	0.	111.	529.	497.	307.	306.
SUBTOTAL	\$/1,000	135.	62.	1757.	0.	682.	3251.	3056.	1890.	1880.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	0.	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	196.	36.	1082.	0.	232.	1495.	1270.	1121.	971.
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	0.	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	14.	3.	78.	0.	17.	108.	92.	81.	70.
SUBTOTAL	\$/1,000	210.	39.	1160.	0.	249.	1603.	1362.	1201.	1041.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	3.10	2.75	9.60	0.	1.90	9.45	9.80	0.90	1.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	0.	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	105.	93.	325.	0.	64.	320.	331.	30.	64.
LENGTH	KM	3.10	2.75	9.60	0.	1.90	9.45	9.80	0.90	1.90
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	0.	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	19.	66.	0.	13.	65.	68.	6.	13.
SUBTOTAL	\$/1,000	126.	112.	391.	0.	77.	385.	399.	37.	77.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	3017.	1648.	6432.	670.	1829.	7972.	6865.	5134.	4932.
TOTAL CAPITAL COST	\$/1,000	495.	265.	1151.	106.	328.	1470.	1276.	943.	902.
TOTAL COST	\$/1,000	3511.	1913.	7583.	776.	2157.	9442.	8141.	6077.	5834.

	YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING										
AREA	HECTARES	283.75	293.10	418.60	220.60	161.90	208.30	411.90	168.75	145.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	359.	371.	530.	279.	205.	264.	522.	214.	184.
AREA	HECTARES	283.75	293.10	418.60	220.60	161.90	208.30	411.90	168.75	145.60
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	56.	58.	82.	43.	32.	41.	81.	33.	29.
SUBTOTAL	\$*1,000	415.	429.	613.	323.	237.	305.	603.	247.	213.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	33.60	25.80	130.80	133.80	132.60	118.80	56.40	15.00	3.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	62.	48.	242.	248.	245.	220.	104.	28.	7.
DITCH VOLUME	1000 BCM	33.60	25.80	130.80	133.80	132.60	118.80	56.40	15.00	3.60
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	10.	8.	39.	40.	40.	36.	17.	5.	1.
SUBTOTAL	\$*1,000	72.	55.	281.	288.	285.	255.	121.	32.	8.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	1000.	926.	596.	458.	2320.	2373.	2352.	2107.	1000.
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	243.	225.	145.	111.	564.	577.	572.	512.	243.
SUBTOTAL	\$*1,000	1244.	1151.	741.	569.	2884.	2950.	2924.	2620.	1244.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)

VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
HAUL DISTANCE	KM	2.70	3.90	4.45	5.17	6.72	6.85	6.57	8.48	7.81
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	796.	1064.	781.	697.	4593.	4789.	4552.	5264.	2302.
VOLUME*DISTANCE	1000 BCM*KM	3172.50	4241.25	3115.00	2778.90	18312.00	19094.40	18149.60	20988.00	9176.75
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	155.	207.	152.	135.	892.	930.	884.	1022.	447.
SUBTOTAL	\$/1000	950.	1270.	933.	832.	5484.	5719.	5436.	6286.	2748.

2.5 MUSKEG PLACEMENT

VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	563.	521.	336.	258.	1306.	1336.	1324.	1187.	563.
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	41.	38.	24.	19.	94.	96.	96.	86.	41.
SUBTOTAL	\$/1000	604.	559.	360.	276.	1401.	1433.	1420.	1272.	604.

2.6 MUSKEG ROAD CONSTRUCTION

LENGTH	KM	4.10	4.95	0.80	12.25	7.25	3.00	16.82	17.59	10.03
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	139.	167.	27.	414.	245.	101.	569.	595.	339.
LENGTH	KM	4.10	4.95	0.80	12.25	7.25	3.00	16.82	17.59	10.03
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	28.	34.	6.	85.	50.	21.	116.	122.	69.
SUBTOTAL	\$/1000	167.	202.	33.	499.	295.	122.	685.	717.	409.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1000	2920.	3097.	2512.	2354.	8915.	9084.	9423.	9394.	4396.
TOTAL CAPITAL COST	\$/1000	533.	569.	448.	433.	1672.	1701.	1766.	1779.	830.
TOTAL COST	\$/1000	3452.	3666.	2960.	2787.	10587.	10784.	11189.	11173.	5225.

YEAR 14 15 16 17 18 19 20 21 22

2.1 CLEARING

AREA	HECTARES	133.75	118.10	104.40	95.00	81.25	86.25	141.90	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	169.	150.	132.	120.	103.	109.	180.	0.	0.
AREA	HECTARES	133.75	118.10	104.40	95.00	81.25	86.25	141.90	0.	0.
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	26.	23.	21.	19.	16.	17.	28.	0.	0.
SUBTOTAL	\$/1,000	196.	173.	153.	139.	119.	126.	208.	0.	0.

2.2 MUSKEG DEWATERING

DITCH VOLUME	1000 BCM	0.	1.25	3.00	3.25	3.50	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	1850.00	1850.00	1850.00	1850.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	2.	6.	6.	6.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	1.25	3.00	3.25	3.50	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	300.00	300.00	300.00	300.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	1.	1.	1.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	3.	6.	7.	8.	0.	0.	0.	0.

2.3 MUSKEG LOADING

VOLUME	1000 BCM	312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	0.	851.40	851.40	851.40	851.40	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	266.	64.	0.	13.	32.	35.	37.	0.	0.
VOLUME	1000 BCM	312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	0.	207.00	207.00	207.00	207.00	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	65.	16.	0.	3.	8.	8.	9.	0.	0.
SUBTOTAL	\$/1,000	331.	79.	0.	17.	40.	43.	46.	0.	0.

		YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)											
VOLUME	1000 BCM		312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
HAUL DISTANCE	KM		8.33	4.10	0.	1.80	1.65	1.50	1.70	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		250.80	250.80	0.	250.80	250.80	250.80	250.80	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		653.	77.	0.	7.	16.	15.	19.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		2603.10	307.50	0.	28.10	61.90	60.90	74.40	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		48.70	48.70	0.	48.70	48.70	48.70	48.70	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		127.	15.	0.	1.	3.	3.	4.	0.	0.
SUBTOTAL	\$/1,000		780.	92.	0.	8.	19.	18.	22.	0.	0.
2.5 MUSKEG PLACEMENT											
VOLUME	1000 BCM		312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		479.40	479.40	0.	479.40	479.40	479.40	479.40	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		150.	36.	0.	7.	18.	19.	21.	0.	0.
VOLUME	1000 BCM		312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
UNIT PRICE 2	\$/1000 BCM		34.60	34.60	0.	34.60	34.60	34.60	34.60	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		11.	3.	0.	1.	1.	1.	2.	0.	0.
SUBTOTAL	\$/1,000		161.	39.	0.	8.	19.	21.	22.	0.	0.
2.6 MUSKEG ROAD CONSTRUCTION											
LENGTH	KM		7.77	1.20	0.	0.60	0.	0.40	0.30	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		33825.11	33825.11	0.	33825.11	0.	33825.11	33825.11	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		263.	41.	0.	20.	0.	14.	10.	0.	0.
LENGTH	KM		7.77	1.20	0.	0.60	0.	0.40	0.30	0.	0.
UNIT PRICE 2	\$/KM		6915.90	6915.90	0.	6915.90	0.	6915.90	6915.90	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		54.	8.	0.	4.	0.	3.	2.	0.	0.
SUBTOTAL	\$/1,000		317.	49.	0.	24.	0.	16.	12.	0.	0.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000		1501.	369.	138.	174.	175.	192.	267.	0.	0.
TOTAL CAPITAL COST	\$/1,000		282.	65.	21.	29.	29.	33.	44.	0.	0.
TOTAL COST	\$/1,000		1783.	434.	159.	203.	204.	225.	311.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	8772.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	11113.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	8772.00
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	1727.
SUBTOTAL	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	12839.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1486.69
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	2750.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1486.69
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	446.
SUBTOTAL	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	3196.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	29306.05
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	24951.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	29306.05
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	6066.
SUBTOTAL	\$\$1,000		0.	0.	0.	0.	0.	0.	0.	0.	31018.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	29306.05
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	4.93
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	36268.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	144608.10
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	7042.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	43310.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	29306.05
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	14049.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	29306.05
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1014.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	15063.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	126.46
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4278.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	126.46
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	875.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	5152.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	93409.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	17170.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	110579.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM	0.	0.	0.	22076.00	37323.00	69703.00	126908.00	132596.00	133588.00	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	137.21	137.21	137.21	137.21	137.21	137.21	
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	
OPERATING COST	\$/1,000	0.	0.	0.	3029.	5121.	9564.	17413.	18194.	18330.	
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
ADDITIONAL COST	\$/1,000	19071.00	41195.00	63699.00	57215.00	34711.00	12969.00	0.	0.	0.	
CAPITAL COST	\$/1,000	19071.	41195.	63699.	57215.	34711.	12969.	0.	0.	0.	
SUBTOTAL	\$/1,000	19071.	41195.	63699.	60244.	39832.	22533.	17413.	18194.	18330.	

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	0.	0.	0.	22076.00	37323.00	69703.00	126908.00	132596.00	133588.00
DISTANCE	M	0.	0.	0.	14800.00	20670.00	53990.00	55650.00	57200.00	62400.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.00	0.00	0.00	0.00	0.00	0.00
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	1457.	3441.	16784.	31498.	33827.	37178.
CONV. INCREASE	M	0.	0.	0.	14800.00	6020.00	33170.00	1760.00	2400.00	4250.00
UNIT PRICE 2	\$/M	0.	0.	0.	4617.85	3825.76	4210.22	3825.76	3825.76	4040.09
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	68344.	23031.	139653.	6733.	9182.	17170.
SUBTOTAL	\$/1000	0.	0.	0.	69801.	26472.	156437.	38232.	43009.	54348.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	0.	0.	0.	22076.00	37323.00	38684.00	53429.00	53123.00	51784.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	91.33	91.33	91.33	91.33	91.33	91.33
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	2016.	3409.	3533.	4880.	4852.	4729.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	7717.50	15435.00	16721.25	12862.50	5145.00	3858.75	0.	0.	0.
CAPITAL COST	\$/1000	7718.	15435.	16721.	12863.	5145.	3859.	0.	0.	0.
SUBTOTAL	\$/1000	7718.	15435.	16721.	14879.	8554.	7392.	4880.	4852.	4729.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	5753.00	11506.00	11506.00	11506.00	11506.00	11506.00
OPERATING COST	\$/1000	0.	0.	0.	5753.	11506.	11506.	11506.	11506.	11506.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	11051.00	11051.00	0.	0.	0.	5059.00
CAPITAL COST	\$/1000	0.	0.	0.	11051.	11051.	0.	0.	0.	5059.
SUBTOTAL	\$/1000	0.	0.	0.	16804.	22557.	11506.	11506.	11506.	16565.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	0.	0.	0.	12255.	23477.	41387.	65297.	68378.	71743.
TOTAL CAPITAL COST	\$/1000	26789.	56630.	80420.	149473.	73938.	156481.	6733.	9182.	22229.
TOTAL COST	\$/1000	26789.	56630.	80420.	161728.	97415.	197868.	72031.	77560.	93973.

YEAR 5 6 7 8 9 10 11 12 13

3.1 OVERBURDEN BWE

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

3.2 OIL SANDS DRAGLINES / HOPPERS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

3.3 BWE (OVERBURDEN & OIL SANDS)

VOLUME	1000 BCM	130181.00	131329.00	132921.00	130777.00	131894.00	131969.00	131975.00	131976.00	131951.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17863.	18020.	18238.	17944.	18098.	18108.	18109.	18109.	18105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	17863.	18020.	18238.	17944.	18098.	18108.	18109.	18109.	18105.

YEAR 5 6 7 8 9 10 11 12 13

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	130181.00	131329.00	132921.00	130777.00	131894.00	131969.00	131975.00	131976.00	131951.00
DISTANCE	M	62750.00	61900.00	64000.00	70680.00	64350.00	67500.00	63650.00	60950.00	56140.00
UNIT PRICE 1	\$/1000 BCM*M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	36433.	36257.	37941.	41225.	37854.	39729.	37465.	35876.	33038.
CONV. INCREASE	M	550.00	0.	1370.00	6360.00	950.00	2050.00	0.	0.	0.
UNIT PRICE 2	\$/M	4329.82	0.	3825.76	3935.36	4617.85	4617.85	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	2381.	0.	5241.	25029.	4387.	9467.	0.	0.	0.
SUBTOTAL	\$/1,000	38815.	36257.	43182.	66254.	42241.	49196.	37465.	35876.	33038.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	47956.00	48701.00	48493.00	47066.00	53844.00	55169.00	55404.00	54114.00	56404.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	91.33	91.33	91.33	91.33	91.33	91.33	91.33	91.33	91.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4380.	4448.	4429.	4298.	4918.	5039.	5060.	4942.	5151.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4380.	4448.	4429.	4298.	4918.	5039.	5060.	4942.	5151.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00
OPERATING COST	\$/1,000	11506.	11506.	11506.	11506.	11506.	11506.	11506.	11506.	11506.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5059.00	724.00	724.00	0.	5059.00	5059.00	0.	0.	724.00
CAPITAL COST	\$/1,000	5059.	724.	724.	0.	5059.	5059.	0.	0.	724.
SUBTOTAL	\$/1,000	16565.	12230.	12230.	11506.	16565.	16565.	11506.	11506.	12230.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	70181.	70230.	72114.	74974.	72375.	74382.	72140.	70433.	67801.
TOTAL CAPITAL COST	\$/1,000	7440.	724.	5965.	25029.	9446.	14526.	0.	0.	724.
TOTAL COST	\$/1,000	77622.	70954.	78080.	100003.	81821.	88907.	72140.	70433.	68525.

		YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		131950.00	132019.00	132743.00	133189.00	130095.00	131703.00	131950.00	131951.00	131954.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		18105.	18115.	18214.	18275.	17851.	18071.	18105.	18105.	18106.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		18105.	18115.	18214.	18275.	17851.	18071.	18105.	18105.	18106.

YEAR 14 15 16 17 18 19 20 21 22

3.4 TRANSPORT (ALL CONVEYORS)

VOLUME	1000 BCM	131950.00	132019.00	132743.00	133189.00	130095.00	131703.00	131950.00	131951.00	131954.00
DISTANCE	M	52540.00	48960.00	50560.00	51160.00	53020.00	52850.00	24700.00	53750.00	56000.00
UNIT PRICE 1	\$/1000 BCM*M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	30920.	28828.	29933.	30390.	30763.	31044.	32191.	31632.	32957.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	30920.	28828.	29933.	30390.	30763.	31044.	32191.	31632.	32957.

3.5 PLACEMENT (SPREADER)

VOLUME	1000 BCM	52755.00	51683.00	49506.00	53978.00	50248.00	45949.00	45500.00	45430.00	47157.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	91.33	91.33	91.33	91.33	91.33	91.33	91.33	91.33	91.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4818.	4720.	4521.	4930.	4589.	4196.	4155.	4149.	4307.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4818.	4720.	4521.	4930.	4589.	4196.	4155.	4149.	4307.

3.6 MISCELLANEOUS EQUIPMENT

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00	11506.00
OPERATING COST	\$/1,000	11506.	11506.	11506.	11506.	11506.	11506.	11506.	11506.	11506.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	7301.00	6577.00	0.	0.	0.	5059.00	5783.00	724.00	0.
CAPITAL COST	\$/1,000	7301.	6577.	0.	0.	0.	5059.	5783.	724.	0.
SUBTOTAL	\$/1,000	18807.	18083.	11506.	11506.	11506.	16565.	17289.	12230.	11506.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	65349.	63169.	64175.	65101.	64709.	64818.	65958.	65392.	66875.
TOTAL CAPITAL COST	\$/1,000	7301.	6577.	0.	0.	0.	5059.	5783.	724.	0.
TOTAL COST	\$/1,000	72650.	69746.	64175.	65101.	64709.	69877.	71741.	66116.	66875.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

		YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)											
VOLUME	1000 BCM		131956.00	121152.00	72918.00	29389.00	0.	0.	0.	0.	3250136.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		137.21	137.21	137.21	137.21	0.	0.	0.	0.	137.21
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		18106.	16624.	10005.	4033.	0.	0.	0.	0.	445961.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	228860.00
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	228860.
SUBTOTAL	\$/1,000		18106.	16624.	10005.	4033.	0.	0.	0.	0.	674821.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	131956.00	121152.00	72918.00	29389.00	0.	0.	0.	0.	3250136.00
DISTANCE	M	58500.00	60350.00	61200.00	41760.00	0.	0.	0.	0.	57332.97
UNIT PRICE 1	\$/1000 BCM*M	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	34429.	32609.	19903.	5474.	0.	0.	0.	0.	831076.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	73680.00
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	4215.78
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	310619.
SUBTOTAL	\$/1,000	34429.	32609.	19903.	5474.	0.	0.	0.	0.	1141695.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	49345.00	48255.00	16914.00	3699.00	0.	0.	0.	0.	1283989.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	91.33	91.33	91.33	91.33	0.	0.	0.	0.	91.33
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4507.	4407.	1545.	338.	0.	0.	0.	0.	117265.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	61740.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	61740.
SUBTOTAL	\$/1,000	4507.	4407.	1545.	338.	0.	0.	0.	0.	179005.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	11506.00	11506.00	11506.00	7479.00	0.	0.	0.	0.	312388.00
OPERATING COST	\$/1,000	11506.	11506.	11506.	7479.	0.	0.	0.	0.	312388.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	5059.00	0.	0.	0.	0.	0.	0.	75013.00
CAPITAL COST	\$/1,000	0.	5059.	0.	0.	0.	0.	0.	0.	75013.
SUBTOTAL	\$/1,000	11506.	16565.	11506.	7479.	0.	0.	0.	0.	387401.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	68547.	65146.	42959.	17323.	0.	0.	0.	0.	1706691.
TOTAL CAPITAL COST	\$/1,000	0.	5059.	0.	0.	0.	0.	0.	0.	676232.
TOTAL COST	\$/1,000	68547.	70205.	42959.	17323.	0.	0.	0.	0.	2382923.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		38.20	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		1239.20	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		47.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		38.20	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		300.95	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		11.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		59.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		309.10	732.60	613.00	1561.70	1608.60	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		392.	928.	777.	1978.	2038.	0.	0.	0.	0.
AREA	HECTARES		309.10	732.60	613.00	1561.70	1608.60	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		196.85	196.85	196.85	196.85	196.85	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		61.	144.	121.	307.	317.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		452.	1072.	897.	2286.	2354.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	5682.00	5682.00	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	1950.00	1950.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	11080.	11080.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	11080.	11080.	0.	0.	0.	0.

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4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	61991.00	174647.00	178428.00	183837.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	210.24	76.82	80.42	77.46
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	13033.	13416.	14349.	14240.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	16721.00	16721.00	16722.00	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	16721.	16721.	16722.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	16721.	16721.	16722.	13033.	13416.	14349.	14240.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	10100.00	7800.00	7200.00	6400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	123.56	123.56	123.56	123.56
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	1248.	964.	890.	791.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	5963.00	7159.13	1403.38	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	5963.	7159.	1403.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	7211.	8123.	2293.	791.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	0.	0.	0.	0.	0.	17757.00	10681.00	72980.00	76211.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	1205.	4798.	4954.	5173.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	1205.	4798.	4954.	5173.

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4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	2782.00	2782.00	2782.00	2782.00
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	2782.	2782.	2782.	2782.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	4769.00	4769.00	4770.00	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	4769.	4769.	4770.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	4769.	4769.	4770.	2782.	2782.	2782.	2782.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

4.9 SLUDGE TREATMENT

VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	11.80	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	25000.00	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	112.00	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	407.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	407.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	1768.00	4188.00	4530.00	4663.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	1090.79	1090.79	1090.79	1090.79
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	1929.	4568.	4941.	5086.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	1768.00	4188.00	4530.00	4663.00
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	202.44	202.44	202.44	202.44
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	358.	848.	917.	944.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	2286.	5416.	5858.	6030.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	4.00	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	33825.11	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	135.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	4.00	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	6915.90	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	28.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	163.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		439.	928.	777.	13058.	13253.	20197.	26528.	27916.	28073.
TOTAL CAPITAL COST \$*1,000		72.	144.	21611.	21797.	22243.	6321.	8007.	2320.	944.
TOTAL COST \$*1,000		511.	1072.	22387.	34856.	35496.	26518.	34535.	30237.	29017.

YEAR 5 6 7 8 9 10 11 12 13

4.1 AREA DRAINAGE

DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.2 CLEARING

AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	4200.00	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	1444.16	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	6065.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	4200.00	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	319.31	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	1341.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	7407.	0.	0.	0.

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4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)

VOLUME	1000 CUM	187028.00	183921.00	186785.00	186087.00	181540.00	175078.00	168507.00	170834.00	166470.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	77.46	77.46	77.46	77.46	83.92	83.92	83.92	54.99	54.99
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	14487.	14247.	14468.	14414.	15235.	14693.	14141.	9394.	9154.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	14487.	14247.	14468.	14414.	15235.	14693.	14141.	9394.	9154.

4.5 TAILINGS SAND PLACEMENT INTO DYKE

VOLUME	1000 CUM	4700.00	3700.00	2700.00	2300.00	1600.00	1170.00	18023.00	24132.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	123.56	123.56	123.56	123.56	123.56	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	581.	457.	334.	284.	198.	145.	2227.	2982.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	8019.50	244.38	237.00	222.25	185.13	0.	0.	0.
CAPITAL COST	\$/1,000	0.	8020.	244.	237.	222.	185.	0.	0.	0.
SUBTOTAL	\$/1,000	581.	8477.	578.	521.	420.	330.	2227.	2982.	0.

4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)

VOLUME	1000 CUM	79345.00	78949.00	81236.00	81322.00	79979.00	77505.00	57699.00	52636.00	74807.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	5386.	5359.	5515.	5520.	5429.	5261.	3917.	3573.	5078.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	5386.	5359.	5515.	5520.	5429.	5261.	3917.	3573.	5078.

	YEAR	5	6	7	8	9	10	11	12	13
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		2782.00	2782.00	2782.00	2782.00	2782.00	2782.00	2782.00	2322.00	2322.00
OPERATING COST \$*1,000		2782.	2782.	2782.	2782.	2782.	2782.	2782.	2322.	2322.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		2782.	2782.	2782.	2782.	2782.	2782.	2782.	2322.	2322.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	5286.00	5286.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	5286.	5286.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	5286.	5286.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

4.10 POWER DISTRIBUTION

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	8.50	0.	1.40	
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	25000.00	0.	25000.00	
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	24.50	0.	45.50	
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	237.	0.	81.	
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	237.	0.	81.	

4.11 OVERSIZE REJECT DISPOSAL

VOLUME 1000 LCM		4687.00	4710.00	4812.00	4772.00	4449.00	4378.00	4365.00	4438.00	4306.00	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 1 \$/1000 LCM		1090.79	1090.79	1090.79	1090.79	1090.79	1090.79	1090.79	1090.79	1090.79	
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	
OPERATING COST \$*1,000		5113.	5138.	5249.	5205.	4853.	4775.	4761.	4841.	4697.	
VOLUME 1000 LCM		4687.00	4710.00	4812.00	4772.00	4449.00	4378.00	4365.00	4438.00	4306.00	
UNIT PRICE 2 \$/1000 LCM		202.44	202.44	202.44	202.44	202.44	202.44	202.44	202.44	202.44	
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	
CAPITAL COST \$*1,000		949.	953.	974.	966.	901.	886.	884.	898.	872.	
SUBTOTAL \$*1,000		6061.	6091.	6223.	6171.	5754.	5662.	5645.	5739.	5569.	

4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION

LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.	
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.	

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		28349.	27983.	28347.	28206.	28497.	33721.	27828.	23112.	21251.	
TOTAL CAPITAL COST \$*1,000		949.	8973.	1219.	1203.	1123.	2413.	1121.	6184.	6238.	
TOTAL COST \$*1,000		29298.	36956.	29566.	29409.	29620.	36134.	28949.	29296.	27490.	

	YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	4022.00	0.	0.	0.	0.	0.	1503.00	1503.00	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	844.93	0.	0.	0.	0.	0.	1950.00	1950.00	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3398.	0.	0.	0.	0.	0.	2931.	2931.	0.
QUANTITY 3		4022.00	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		202.51	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	814.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4213.	0.	0.	0.	0.	0.	2931.	2931.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	175043.00	177284.00	189933.00	177285.00	180844.00	196154.00	198506.00	199855.00	196648.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	56.85	55.53	53.40	57.33	64.05	67.36	67.36	67.36	51.64
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	9951.	9845.	10142.	10164.	11583.	13213.	13371.	13462.	10155.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	9951.	9845.	10142.	10164.	11583.	13213.	13371.	13462.	10155.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	9294.00	20988.00	11172.00	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	123.56	123.56	123.56	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	1148.	2593.	1380.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	1148.	2593.	1380.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	69365.00	58678.00	74178.00	79667.00	81266.00	88146.00	89203.00	89809.00	88368.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88	67.88
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	4709.	3983.	5035.	5408.	5517.	5984.	6055.	6097.	5999.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	4709.	3983.	5035.	5408.	5517.	5984.	6055.	6097.	5999.

YEAR 14 15 16 17 18 19 20 21 22

4.7 RECYCLING OF TAILINGS WATER

QUANTITY 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	2467.00	2613.00	2613.00	2613.00	2719.00	2771.00	2771.00	2771.00	2771.00	2771.00
OPERATING COST \$*1,000	2467.	2613.	2613.	2613.	2719.	2771.	2771.	2771.	2771.	2771.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	2467.	2613.	2613.	2613.	2719.	2771.	2771.	2771.	2771.	2771.

4.8 REHANDLING OF TAILINGS SLUDGE

VOLUME 1000 CUM	0.	33829.00	61658.00	61658.00	61658.00	61658.00	61658.00	61658.00	61658.00	87686.00
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	43.03	43.03	43.03	43.03	43.03	43.03	43.03	43.03	46.19
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	1456.	2653.	2653.	2653.	2653.	2653.	2653.	2653.	4050.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	5287.00	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	5287.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	5287.	1456.	2653.	2653.	2653.	2653.	2653.	2653.	2653.	4050.

4.9 SLUDGE TREATMENT

VOLUME 1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		224.00	0.	0.	0.	0.	0.	0.	70.00	98.00
CAPITAL COST \$*1,000		224.	0.	0.	0.	0.	0.	0.	70.	98.
SUBTOTAL \$*1,000		224.	0.	0.	0.	0.	0.	0.	70.	98.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		4514.00	4579.00	4744.00	4515.00	4551.00	4888.00	4928.00	4932.00	4833.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1090.79	1101.65	1101.65	1101.65	1101.65	1101.65	1101.65	1101.65	1101.65
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		4924.	5044.	5226.	4974.	5014.	5385.	5429.	5433.	5324.
VOLUME 1000 LCM		4514.00	4579.00	4744.00	4515.00	4551.00	4888.00	4928.00	4932.00	4833.00
UNIT PRICE 2 \$/1000 LCM		202.44	207.30	207.30	207.30	207.30	207.30	207.30	207.30	207.30
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		914.	949.	983.	936.	943.	1013.	1022.	1022.	1002.
SUBTOTAL \$*1,000		5838.	5994.	6210.	5910.	5957.	6398.	6451.	6456.	6326.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		5.40	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		33825.11	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		183.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		5.40	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		6915.90	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		37.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		220.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		26780.	25534.	27051.	25812.	27485.	30006.	33211.	33347.	28299.
TOTAL CAPITAL COST \$*1,000		7277.	949.	983.	936.	943.	1013.	1022.	1092.	1100.
TOTAL COST \$*1,000		34057.	26483.	28034.	26748.	28429.	31019.	34232.	34440.	29399.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	38.20
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1239.20
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	47.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	38.20
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.95
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	11.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	59.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	4825.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	6112.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	4825.00
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	950.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	7062.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	22592.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1659.23
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	37485.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	8222.00
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	262.17
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	2156.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	39641.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 4: TAILINGS DISPOSAL

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	195621.00	184714.00	126821.00	58175.00	0.	0.	0.	0.	4462036.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	47.02	73.39	91.15	91.15	0.	0.	0.	0.	70.99
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	9198.	13556.	11560.	5303.	0.	0.	0.	0.	316775.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	50164.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	50164.
SUBTOTAL	\$/1,000	9198.	13556.	11560.	5303.	0.	0.	0.	0.	366939.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	131279.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	123.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	16221.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	23433.75
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	23434.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	39655.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	87907.00	83005.00	56990.00	26142.00	0.	0.	0.	0.	1873831.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	67.88	67.88	67.88	67.88	0.	0.	0.	0.	67.88
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	5967.	5635.	3869.	1775.	0.	0.	0.	0.	127203.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	5967.	5635.	3869.	1775.	0.	0.	0.	0.	127203.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		2488.00	2491.00	2613.00	2613.00	0.	0.	0.	0.	69560.00
OPERATING COST \$*1,000		2488.	2491.	2613.	2613.	0.	0.	0.	0.	69560.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	14308.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	14308.
SUBTOTAL \$*1,000		2488.	2491.	2613.	2613.	0.	0.	0.	0.	83868.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	109511.00	83005.00	57684.00	25838.00	0.	0.	0.	0.	767501.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	49.79	50.32	47.93	47.93	0.	0.	0.	0.	45.68
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		5453.	4177.	2765.	1238.	0.	0.	0.	0.	35057.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	15859.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	15859.
SUBTOTAL \$*1,000		5453.	4177.	2765.	1238.	0.	0.	0.	0.	50916.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	21.70
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	25000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	574.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1117.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	1117.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		4709.00	4155.00	3192.00	1464.00	0.	0.	0.	0.	112070.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		1101.65	1101.65	1101.65	1101.65	0.	0.	0.	0.	1095.78
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		5188.	4577.	3516.	1613.	0.	0.	0.	0.	122804.
VOLUME 1000 LCM		4709.00	4155.00	3192.00	1464.00	0.	0.	0.	0.	112070.00
UNIT PRICE 2 \$/1000 LCM		207.30	207.30	207.30	207.30	0.	0.	0.	0.	204.67
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		976.	861.	662.	303.	0.	0.	0.	0.	22938.
SUBTOTAL \$*1,000		6164.	5439.	4178.	1916.	0.	0.	0.	0.	145742.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	9.40
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	318.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	9.40
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	65.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	383.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		28294.	30436.	24323.	12542.	0.	0.	0.	0.	731583.
TOTAL CAPITAL COST \$*1,000		976.	861.	662.	303.	0.	0.	0.	0.	131001.
TOTAL COST \$*1,000		29270.	31297.	24984.	12845.	0.	0.	0.	0.	862584.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1.000		0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION											
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 5 6 7 8 9 10 11 12 13

5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	327.90	327.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	178.	178.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	327.90	327.90
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	43.	43.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	221.	221.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	327.90	327.90
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	1.40	1.20
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	82.	70.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	459.10	393.50
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	16.	13.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	98.	84.

	YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	327.90	327.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	140.93	140.93
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	46.	46.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	327.90	327.90
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	22.92	22.92
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	8.	8.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	54.	54.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.30	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	33825.11	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	10.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.30	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	6915.90	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	2.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	12.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		0.	0.	0.	1275.00	2914.70	971.70	971.70	1955.30	1474.30
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	36.	81.	27.	27.	54.	41.
VOLUME	1000 BCM		0.	0.	0.	1275.00	2914.70	971.70	971.70	1955.30	1474.30
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	6.	13.	4.	4.	9.	6.
SUBTOTAL	\$/1000		0.	0.	0.	41.	94.	31.	31.	63.	47.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000		0.	0.	0.	0.	0.	0.	0.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	0.	0.	0.	212.50	485.80	161.90	161.90	325.90	245.70
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	106.57	350.20	431.39	512.58	690.14	813.36
OPERATING COST	\$/1,000	0.	0.	0.	270.	723.	556.	637.	940.	1002.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	270.	723.	556.	637.	940.	1002.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	0.	0.	0.	305.	804.	583.	664.	1311.	1337.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	6.	13.	4.	4.	77.	70.
TOTAL COST	\$/1,000	0.	0.	0.	311.	817.	587.	668.	1388.	1408.

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5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	178.90	327.90	327.90	327.90	487.40	487.40	726.60	726.60	805.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	110.	202.	202.	202.	300.	300.	447.	447.	496.
VOLUME	1000 BCM	178.90	327.90	327.90	327.90	487.40	487.40	726.60	726.60	805.60
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	27.	49.	49.	49.	73.	73.	108.	108.	120.
SUBTOTAL	\$/1,000	137.	251.	251.	251.	372.	372.	555.	555.	616.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	178.90	327.90	327.90	327.90	487.40	487.40	726.60	726.60	805.60
HAUL DISTANCE	KM	8.80	5.64	2.83	1.35	1.88	3.21	4.67	6.78	7.43
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	353.	415.	208.	99.	206.	351.	762.	1106.	1344.
VOLUME*DISTANCE	1000 BCM*KM	1574.30	1849.40	928.00	442.70	916.30	1564.60	3393.20	4926.30	5985.60
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	67.	78.	39.	19.	39.	66.	144.	209.	254.
SUBTOTAL	\$/1,000	420.	494.	248.	118.	245.	418.	906.	1315.	1598.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	178.90	327.90	327.90	327.90	487.40	487.40	726.60	726.60	805.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	29.	54.	54.	54.	80.	80.	119.	119.	132.
VOLUME	1000 BCM	178.90	327.90	327.90	327.90	487.40	487.40	726.60	726.60	805.60
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	5.	9.	9.	9.	13.	13.	19.	19.	21.
SUBTOTAL	\$/1,000	34.	62.	62.	62.	93.	93.	138.	138.	153.

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5.4 MUSKEG REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	13.67	9.84	6.40	4.93	5.08	10.14	17.01	17.01	23.48
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	462.	333.	216.	167.	172.	343.	575.	575.	794.
DISTANCE	KM	13.67	9.84	6.40	4.93	5.08	10.14	17.01	17.01	23.48
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	95.	68.	44.	34.	35.	70.	118.	118.	162.
SUBTOTAL	\$/1,000	557.	401.	261.	201.	207.	413.	693.	693.	957.

5.5 OVERBURDEN REHANDLE LOADING

VOLUME	1000 BCM	327.90	327.90	213.20	146.00	146.00	327.90	567.10	567.10	646.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	178.	178.	115.	79.	79.	178.	307.	307.	350.
VOLUME	1000 BCM	327.90	327.90	213.20	146.00	146.00	327.90	567.10	567.10	646.10
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	43.	43.	28.	19.	19.	43.	75.	75.	85.
SUBTOTAL	\$/1,000	221.	221.	144.	98.	98.	221.	382.	382.	435.

5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	327.90	327.90	213.20	146.00	146.00	327.90	567.10	567.10	646.10
HAUL DISTANCE	KM	10.20	6.27	0.90	0.85	1.60	2.70	5.05	7.75	5.05
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	597.	367.	34.	22.	42.	158.	511.	785.	583.
VOLUME*DISTANCE	1000 BCM*KM	3344.60	2055.90	191.90	124.10	233.60	885.30	2863.90	4395.00	3262.80
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	114.	70.	7.	4.	8.	30.	97.	149.	111.
SUBTOTAL	\$/1,000	711.	437.	41.	26.	50.	188.	609.	934.	694.

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5.7 OVERBURDEN REHANDLE PLACEMENT

VOLUME	1000 BCM	327.90	327.90	213.20	146.00	146.00	327.90	567.10	567.10	646.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	46.	46.	30.	21.	21.	46.	80.	80.	91.
VOLUME	1000 BCM	327.90	327.90	213.20	146.00	146.00	327.90	567.10	567.10	646.10
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	8.	8.	5.	3.	3.	8.	13.	13.	15.
SUBTOTAL	\$/1,000	54.	54.	35.	24.	24.	54.	93.	93.	106.

5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION

DISTANCE	KM	10.70	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	362.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	10.70	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	6915.90	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	74.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	436.	0.	0.	0.	0.	0.	0.	0.	0.

5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1474.30	1208.60	983.60	1030.50	1571.00	1584.00	2311.00	2179.70	2416.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	41.	34.	27.	29.	44.	44.	64.	61.	67.
VOLUME	1000 BCM	1474.30	1208.60	983.60	1030.50	1571.00	1584.00	2311.00	2179.70	2416.80
UNIT PRICE 2	\$/1000 BCM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	6.	5.	4.	4.	7.	7.	10.	10.	11.
SUBTOTAL	\$/1,000	47.	39.	32.	33.	51.	51.	74.	70.	78.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR 14 15 16 17 18 19 20 21 22

5.13 PREPARED SOIL PLACEMENT, TRUCKS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.14 PREPARED SOIL ROAD CONSTRUCTION

LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE

AREA	HECTARES	245.70	201.40	163.90	171.75	261.80	264.00	385.20	363.30	402.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	936.58	1037.58	1119.78	1205.89	1337.18	1469.57	1662.75	1844.95	2103.44
OPERATING COST	\$/1,000	1125.	1192.	1246.	1338.	1538.	1672.	1959.	2124.	2413.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1125.	1192.	1246.	1338.	1538.	1672.	1959.	2124.	2413.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	3304.	2820.	2133.	2010.	2480.	3172.	4824.	5604.	6269.
TOTAL CAPITAL COST	\$/1,000	438.	330.	185.	142.	197.	310.	584.	701.	779.
TOTAL COST	\$/1,000	3742.	3150.	2318.	2151.	2677.	3482.	5408.	6304.	7048.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	805.60	1233.70	1233.70	1292.30	1292.30	1132.80	1222.10	1222.10	13830.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19	615.19
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	496.	759.	759.	795.	795.	697.	752.	752.	8509.
VOLUME	1000 BCM	805.60	1233.70	1233.70	1292.30	1292.30	1132.80	1222.10	1222.10	13830.80
UNIT PRICE 2	\$/1000 BCM	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00	149.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	120.	184.	184.	193.	193.	169.	182.	182.	2061.
SUBTOTAL	\$/1,000	616.	943.	943.	988.	988.	866.	934.	934.	10569.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	805.60	1233.70	1233.70	1292.30	1292.30	1132.80	1222.10	1222.10	13830.80
HAUL DISTANCE	KM	6.88	5.55	4.97	5.51	5.04	5.00	3.95	3.93	4.99
UNIT PRICE 1	\$/1000 BCM*KM	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53	224.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1244.	1537.	1377.	1599.	1462.	1272.	1084.	1078.	15499.
VOLUME*DISTANCE	1000 BCM*KM	5542.50	6847.00	6131.50	7120.60	6513.20	5664.00	4827.30	4802.90	69029.40
UNIT PRICE 2	\$/1000 BCM*KM	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43	42.43
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	235.	291.	260.	302.	276.	240.	205.	204.	2929.
SUBTOTAL	\$/1,000	1480.	1828.	1637.	1901.	1739.	1512.	1289.	1282.	18428.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	805.60	1233.70	1233.70	1292.30	1292.30	1132.80	1222.10	1222.10	13830.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24	163.24
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	132.	201.	201.	211.	211.	185.	199.	199.	2258.
VOLUME	1000 BCM	805.60	1233.70	1233.70	1292.30	1292.30	1132.80	1222.10	1222.10	13830.80
UNIT PRICE 2	\$/1000 BCM	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62	26.62
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	21.	33.	33.	34.	34.	30.	33.	33.	368.
SUBTOTAL	\$/1,000	153.	234.	234.	245.	245.	215.	232.	232.	2626.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	19.38	32.22	32.22	33.98	33.98	33.98	19.83	19.73	332.88
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	656.	1090.	1090.	1149.	1149.	1149.	671.	667.	11260.
DISTANCE	KM	19.38	32.22	32.22	33.98	33.98	33.98	19.83	19.73	332.88
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	134.	223.	223.	235.	235.	235.	137.	136.	2302.
SUBTOTAL	\$/1,000	790.	1313.	1313.	1384.	1384.	1384.	808.	804.	13562.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	646.10	1074.20	1074.20	1132.80	1132.80	1132.80	1222.10	1222.10	12562.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57	541.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	350.	582.	582.	613.	613.	613.	662.	662.	6803.
VOLUME	1000 BCM	646.10	1074.20	1074.20	1132.80	1132.80	1132.80	1222.10	1222.10	12562.10
UNIT PRICE 2	\$/1000 BCM	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	85.	141.	141.	149.	149.	149.	161.	161.	1652.
SUBTOTAL	\$/1,000	435.	723.	723.	762.	762.	762.	823.	823.	8456.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	646.10	1074.20	1074.20	1132.80	1132.80	1132.80	1222.10	1222.10	12562.10
HAUL DISTANCE	KM	5.08	4.53	4.24	4.73	4.57	4.39	4.35	3.58	4.47
UNIT PRICE 1	\$/1000 BCM*KM	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56	178.56
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	586.	869.	813.	957.	924.	888.	949.	781.	10019.
VOLUME*DISTANCE	1000 BCM*KM	3282.20	4866.10	4554.60	5358.10	5176.90	4973.00	5316.10	4375.10	56111.80
UNIT PRICE 2	\$/1000 BCM*KM	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	112.	165.	155.	182.	176.	169.	181.	149.	1908.
SUBTOTAL	\$/1,000	698.	1034.	968.	1139.	1100.	1057.	1130.	930.	11927.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	646.10	1074.20	1074.20	1132.80	1132.80	1132.80	1222.10	1222.10	12562.10
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93	140.93
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	91.	151.	151.	160.	160.	160.	172.	172.	1770.
VOLUME	1000 BCM	646.10	1074.20	1074.20	1132.80	1132.80	1132.80	1222.10	1222.10	12562.10
UNIT PRICE 2	\$/1000 BCM	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92	22.92
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	15.	25.	25.	26.	26.	26.	28.	28.	288.
SUBTOTAL	\$/1,000	106.	176.	176.	186.	186.	186.	200.	200.	2058.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	1.60	0.	0.	0.	0.	0.	0.	12.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	33825.11	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	54.	0.	0.	0.	0.	0.	0.	426.
DISTANCE	KM	0.	1.60	0.	0.	0.	0.	0.	0.	12.60
UNIT PRICE 2	\$/KM	0.	6915.90	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	11.	0.	0.	0.	0.	0.	0.	87.
SUBTOTAL	\$/1,000	0.	65.	0.	0.	0.	0.	0.	0.	513.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		2416.80	3701.20	3701.20	3876.80	3876.80	3398.30	3666.30	3666.30	52625.90
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		67.	103.	103.	108.	108.	95.	102.	102.	1466.
VOLUME	1000 BCM		2416.80	3701.20	3701.20	3876.80	3876.80	3398.30	3666.30	3666.30	52625.90
UNIT PRICE 2	\$/1000 BCM		4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		11.	16.	16.	17.	17.	15.	16.	16.	229.
SUBTOTAL	\$/1,000		78.	119.	119.	125.	125.	109.	118.	118.	1695.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	402.80	616.90	616.90	646.10	646.10	566.40	611.10	611.10	8770.95
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	2305.44	2614.82	2853.58	3177.60	3501.62	3785.67	4092.14	4398.61	42351.45
OPERATING COST	\$/1,000	2615.	3089.	3327.	3674.	3998.	4221.	4561.	4868.	49088.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	2615.	3089.	3327.	3674.	3998.	4221.	4561.	4868.	49088.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	6236.	8435.	8404.	9266.	9421.	9279.	9153.	9282.	107098.
TOTAL CAPITAL COST	\$/1,000	733.	1089.	1037.	1138.	1106.	1033.	942.	908.	11825.
TOTAL COST	\$/1,000	6969.	9524.	9440.	10404.	10527.	10313.	10095.	10191.	118923.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	8.00	15.00	37.00	73.00	110.00	146.00	146.00	146.00	146.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	234.	438.	1080.	2131.	3211.	4262.	4262.	4262.	4262.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	234.	438.	1080.	2131.	3211.	4262.	4262.	4262.	4262.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	6.00	12.00	30.00	60.00	90.00	119.00	119.00	119.00	119.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	168.	336.	841.	1682.	2522.	3335.	3335.	3335.	3335.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	168.	336.	841.	1682.	2522.	3335.	3335.	3335.	3335.
6.3 MINING										
NO. OF PERSONS	PERSONS	7.00	13.00	32.00	64.00	96.00	127.00	127.00	127.00	127.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	208.	387.	952.	1903.	2855.	3777.	3777.	3777.	3777.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	208.	387.	952.	1903.	2855.	3777.	3777.	3777.	3777.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	610.	1161.	2873.	5716.	8589.	11374.	11374.	11374.	11374.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	610.	1161.	2873.	5716.	8589.	11374.	11374.	11374.	11374.

YEAR 5 6 7 8 9 10 11 12 13

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.

6.2 PLANNING

NO. OF PERSONS	PERSONS	119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.

6.3 MINING

NO. OF PERSONS	PERSONS	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.

	YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.
6.3 MINING										
NO. OF PERSONS	PERSONS	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.	3777.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	146.00	146.00	146.00	146.00	19.00	19.00	19.00	19.00	4115.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4262.	4262.	4262.	4262.	555.	555.	555.	555.	120137.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4262.	4262.	4262.	4262.	555.	555.	555.	555.	120137.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	119.00	119.00	119.00	119.00	24.00	24.00	24.00	24.00	3388.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3335.	3335.	3335.	3335.	673.	673.	673.	673.	94949.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3335.	3335.	3335.	3335.	673.	673.	673.	673.	94949.
6.3 MINING										
NO. OF PERSONS	PERSONS	127.00	127.00	127.00	127.00	7.00	7.00	7.00	7.00	3542.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00	29740.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3777.	3777.	3777.	3777.	208.	208.	208.	208.	105339.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3777.	3777.	3777.	3777.	208.	208.	208.	208.	105339.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	11374.	11374.	11374.	11374.	1435.	1435.	1435.	1435.	320425.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	11374.	11374.	11374.	11374.	1435.	1435.	1435.	1435.	320425.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	1102.	2088.	2184.	2184.	2184.	2184.
CAPITAL COST	\$*1,000	0.	8008.	18884.	7934.	2940.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	8008.	18884.	9036.	5028.	2184.	2184.	2184.	2184.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	3017.	1648.	6432.	670.	1829.	7972.	6865.	5134.	4932.
CAPITAL COST	\$*1,000	495.	265.	1151.	106.	328.	1470.	1276.	943.	902.
SUBTOTAL	\$*1,000	3511.	1913.	7583.	776.	2157.	9442.	8141.	6077.	5834.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	12255.	23477.	41387.	65297.	68378.	71743.
CAPITAL COST	\$*1,000	26789.	56630.	80420.	149473.	73938.	156481.	6733.	9182.	22229.
SUBTOTAL	\$*1,000	26789.	56630.	80420.	161728.	97415.	197868.	72031.	77560.	93973.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	439.	928.	777.	13058.	13253.	20197.	26528.	27916.	28073.
CAPITAL COST	\$*1,000	72.	144.	21611.	21797.	22243.	6321.	8007.	2320.	944.
SUBTOTAL	\$*1,000	511.	1072.	22387.	34856.	35496.	26518.	34535.	30237.	29017.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	610.	1161.	2873.	5716.	8589.	11374.	11374.	11374.	11374.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	610.	1161.	2873.	5716.	8589.	11374.	11374.	11374.	11374.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	4066.	3737.	10081.	32802.	49235.	83114.	112250.	114987.	118307.
TOTAL CAPITAL COST	\$*1,000	27355.	65047.	122066.	179310.	99449.	164272.	16016.	12445.	24075.
TOTAL COST	\$*1,000	31421.	68784.	132148.	212112.	148685.	247386.	128266.	127432.	142382.

YEAR 5 6 7 8 9 10 11 12 13

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST \$*1,000	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST \$*1,000	2920.	3097.	2512.	2354.	8915.	9084.	9423.	9394.	4396.
CAPITAL COST \$*1,000	533.	569.	448.	433.	1672.	1701.	1766.	1779.	830.
SUBTOTAL \$*1,000	3452.	3666.	2960.	2787.	10587.	10784.	11189.	11173.	5225.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST \$*1,000	70181.	70230.	72114.	74974.	72375.	74382.	72140.	70433.	67801.
CAPITAL COST \$*1,000	7440.	724.	5965.	25029.	9446.	14526.	0.	0.	724.
SUBTOTAL \$*1,000	77622.	70954.	78080.	100003.	81821.	88907.	72140.	70433.	68525.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST \$*1,000	28349.	27983.	28347.	28206.	28497.	33721.	27828.	23112.	21251.
CAPITAL COST \$*1,000	949.	8973.	1219.	1203.	1123.	2413.	1121.	6184.	6238.
SUBTOTAL \$*1,000	29298.	36956.	29566.	29409.	29620.	36134.	28949.	29296.	27490.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST \$*1,000	0.	0.	0.	305.	804.	583.	664.	1311.	1337.
CAPITAL COST \$*1,000	0.	0.	0.	6.	13.	4.	4.	77.	70.
SUBTOTAL \$*1,000	0.	0.	0.	311.	817.	587.	668.	1388.	1408.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST \$*1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	115008.	114869.	116532.	119397.	124149.	131328.	123614.	117808.	108344.
TOTAL CAPITAL COST \$*1,000	8922.	10266.	7632.	26671.	12254.	18643.	2891.	8041.	7863.
TOTAL COST \$*1,000	123930.	125135.	124164.	146068.	136403.	149971.	126504.	125849.	116206.

YEAR 14 15 16 17 18 19 20 21 22

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST	\$*1,000	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.	2184.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST	\$*1,000	1501.	369.	138.	174.	175.	192.	267.	0.	0.
CAPITAL COST	\$*1,000	282.	65.	21.	29.	29.	33.	44.	0.	0.
SUBTOTAL	\$*1,000	1783.	434.	159.	203.	204.	225.	311.	0.	0.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST	\$*1,000	65349.	63169.	64175.	65101.	64709.	64818.	65958.	65392.	66875.
CAPITAL COST	\$*1,000	7301.	6577.	0.	0.	0.	5059.	5783.	724.	0.
SUBTOTAL	\$*1,000	72650.	69746.	64175.	65101.	64709.	69877.	71741.	66116.	66875.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST	\$*1,000	26780.	25534.	27051.	25812.	27485.	30006.	33211.	33347.	28299.
CAPITAL COST	\$*1,000	7277.	949.	983.	936.	943.	1013.	1022.	1092.	1100.
SUBTOTAL	\$*1,000	34057.	26483.	28034.	26748.	28429.	31019.	34232.	34440.	29399.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST	\$*1,000	3304.	2820.	2133.	2010.	2480.	3172.	4824.	5604.	6269.
CAPITAL COST	\$*1,000	438.	330.	185.	142.	197.	310.	584.	701.	779.
SUBTOTAL	\$*1,000	3742.	3150.	2318.	2151.	2677.	3482.	5408.	6304.	7048.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST	\$*1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.	11374.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$*1,000	110493.	105451.	107054.	106656.	108408.	111746.	117818.	117902.	115002.
TOTAL CAPITAL COST	\$*1,000	15298.	7921.	1190.	1107.	1169.	6415.	7433.	2517.	1879.
TOTAL COST	\$*1,000	125790.	113372.	108244.	107762.	109578.	118160.	125251.	120419.	116881.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	2184.	2184.	2184.	1563.	50.	50.	50.	50.	59553.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	37766.
SUBTOTAL	\$*1,000	2184.	2184.	2184.	1563.	50.	50.	50.	50.	97319.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	93409.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	17170.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	110579.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	68547.	65146.	42959.	17323.	0.	0.	0.	0.	1706691.
CAPITAL COST	\$*1,000	0.	5059.	0.	0.	0.	0.	0.	0.	676232.
SUBTOTAL	\$*1,000	68547.	70205.	42959.	17323.	0.	0.	0.	0.	2382923.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	28294.	30436.	24323.	12542.	0.	0.	0.	0.	731583.
CAPITAL COST	\$*1,000	976.	861.	662.	303.	0.	0.	0.	0.	131001.
SUBTOTAL	\$*1,000	29270.	31297.	24984.	12845.	0.	0.	0.	0.	862584.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	6236.	8435.	8404.	9266.	9421.	9279.	9153.	9282.	107098.
CAPITAL COST	\$*1,000	733.	1089.	1037.	1138.	1106.	1033.	942.	908.	11825.
SUBTOTAL	\$*1,000	6969.	9524.	9440.	10404.	10527.	10313.	10095.	10191.	118923.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	11374.	11374.	11374.	11374.	1435.	1435.	1435.	1435.	320425.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	11374.	11374.	11374.	11374.	1435.	1435.	1435.	1435.	320425.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	116636.	117576.	89244.	52068.	10907.	10765.	10638.	10768.	3018758.
TOTAL CAPITAL COST	\$*1,000	1709.	7009.	1698.	1442.	1106.	1033.	942.	908.	873994.
TOTAL COST	\$*1,000	118345.	124585.	90942.	53509.	12013.	11798.	11580.	11676.	3892752.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

OPERATING COST \$*1,000	0.	0.	0.	753.	1296.	1233.	1121.	1019.	926.
CAPITAL COST \$*1,000	0.	6618.	14188.	5419.	1826.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	6618.	14188.	6172.	3122.	1233.	1121.	1019.	926.

COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

OPERATING COST \$*1,000	2743.	1362.	4832.	457.	1136.	4500.	3523.	2395.	2092.
CAPITAL COST \$*1,000	450.	219.	865.	72.	204.	830.	655.	440.	382.
SUBTOTAL \$*1,000	3192.	1581.	5698.	530.	1339.	5330.	4178.	2835.	2474.

COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

OPERATING COST \$*1,000	0.	0.	0.	8371.	14577.	23362.	33508.	31899.	30426.
CAPITAL COST \$*1,000	24353.	46802.	60421.	102092.	45910.	88329.	3455.	4283.	9427.
SUBTOTAL \$*1,000	24353.	46802.	60421.	110463.	60487.	111691.	36963.	36182.	39854.

COST CENTRE 4: TAILINGS DISPOSAL

OPERATING COST \$*1,000	399.	767.	583.	8919.	8229.	11401.	13613.	13023.	11906.
CAPITAL COST \$*1,000	66.	119.	16236.	14888.	13811.	3568.	4109.	1082.	400.
SUBTOTAL \$*1,000	465.	886.	16820.	23807.	22040.	14969.	17722.	14106.	12306.

COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

OPERATING COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES

OPERATING COST \$*1,000	554.	959.	2158.	3904.	5333.	6421.	5837.	5306.	4824.
CAPITAL COST \$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000	554.	959.	2158.	3904.	5333.	6421.	5837.	5306.	4824.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000	3696.	3088.	7574.	22404.	30571.	46916.	57602.	53642.	50174.
TOTAL CAPITAL COST \$*1,000	24869.	53758.	91710.	122471.	61750.	92727.	8219.	5806.	10210.
TOTAL COST \$*1,000	28565.	56847.	99284.	144875.	92321.	139643.	65821.	59448.	60384.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	842.	765.	696.	633.	575.	523.	475.	432.	393.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	842.	765.	696.	633.	575.	523.	475.	432.	393.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	1126.	1086.	800.	682.	2348.	2175.	2051.	1859.	791.
CAPITAL COST	\$*1,000	205.	199.	143.	126.	440.	407.	384.	352.	149.
SUBTOTAL	\$*1,000	1331.	1285.	943.	807.	2788.	2582.	2435.	2211.	940.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	27058.	24615.	22978.	21717.	19059.	17806.	15700.	13935.	12195.
CAPITAL COST	\$*1,000	2869.	254.	1901.	7250.	2487.	3477.	0.	0.	130.
SUBTOTAL	\$*1,000	29927.	24869.	24879.	28967.	21546.	21284.	15700.	13935.	12325.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	10930.	9808.	9032.	8170.	7504.	8073.	6056.	4573.	3822.
CAPITAL COST	\$*1,000	366.	3145.	388.	348.	296.	578.	244.	1224.	1122.
SUBTOTAL	\$*1,000	11295.	12953.	9421.	8519.	7800.	8650.	6300.	5796.	4944.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	88.	212.	140.	145.	259.	241.
CAPITAL COST	\$*1,000	0.	0.	0.	2.	3.	1.	1.	15.	13.
SUBTOTAL	\$*1,000	0.	0.	0.	90.	215.	141.	145.	275.	253.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	4385.	3987.	3624.	3295.	2995.	2723.	2475.	2250.	2046.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	4385.	3987.	3624.	3295.	2995.	2723.	2475.	2250.	2046.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	44341.	40261.	37131.	34585.	32692.	31439.	26902.	23308.	19487.
TOTAL CAPITAL COST	\$*1,000	3440.	3598.	2432.	7726.	3227.	4463.	629.	1591.	1414.
TOTAL COST	\$*1,000	47780.	43859.	39563.	42311.	35919.	35902.	27531.	24899.	20901.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	357.	325.	295.	268.	244.	222.	202.	183.	167.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	357.	325.	295.	268.	244.	222.	202.	183.	167.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	245.	55.	19.	21.	20.	20.	25.	0.	0.
CAPITAL COST	\$*1,000	46.	10.	3.	4.	3.	3.	4.	0.	0.
SUBTOTAL	\$*1,000	292.	65.	22.	25.	23.	23.	29.	0.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	10685.	9390.	8672.	7997.	7227.	6581.	6088.	5487.	5101.
CAPITAL COST	\$*1,000	1194.	978.	0.	0.	0.	514.	534.	61.	0.
SUBTOTAL	\$*1,000	11879.	10367.	8672.	7997.	7227.	7094.	6621.	5548.	5101.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	4379.	3796.	3655.	3171.	3070.	3046.	3065.	2798.	2159.
CAPITAL COST	\$*1,000	1190.	141.	133.	115.	105.	103.	94.	92.	84.
SUBTOTAL	\$*1,000	5569.	3937.	3788.	3286.	3175.	3149.	3160.	2890.	2242.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	540.	419.	288.	247.	277.	322.	445.	470.	478.
CAPITAL COST	\$*1,000	72.	49.	25.	17.	22.	31.	54.	59.	59.
SUBTOTAL	\$*1,000	612.	468.	313.	264.	299.	353.	499.	529.	538.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	1860.	1691.	1537.	1397.	1270.	1155.	1050.	954.	868.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1860.	1691.	1537.	1397.	1270.	1155.	1050.	954.	868.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	18066.	15675.	14466.	13102.	12107.	11345.	10874.	9893.	8772.
TOTAL CAPITAL COST	\$*1,000	2501.	1177.	161.	136.	131.	651.	686.	211.	143.
TOTAL COST	\$*1,000	20568.	16852.	14627.	13238.	12237.	11996.	11560.	10104.	8915.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 MINIMUM LEVEL (6 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	151.	138.	125.	81.	2.	2.	2.	2.	14448.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	28051.
SUBTOTAL	\$*1,000	151.	138.	125.	81.	2.	2.	2.	2.	42499.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	36359.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	6596.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	42955.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	4753.	4107.	2462.	903.	0.	0.	0.	0.	396657.
CAPITAL COST	\$*1,000	0.	319.	0.	0.	0.	0.	0.	0.	407039.
SUBTOTAL	\$*1,000	4753.	4426.	2462.	903.	0.	0.	0.	0.	803696.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	1962.	1919.	1394.	653.	0.	0.	0.	0.	171874.
CAPITAL COST	\$*1,000	68.	54.	38.	16.	0.	0.	0.	0.	64223.
SUBTOTAL	\$*1,000	2030.	1973.	1432.	669.	0.	0.	0.	0.	236097.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	432.	532.	482.	483.	446.	400.	358.	330.	8034.
CAPITAL COST	\$*1,000	51.	69.	59.	59.	52.	44.	37.	32.	828.
SUBTOTAL	\$*1,000	483.	600.	541.	542.	499.	444.	395.	363.	8862.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	789.	717.	652.	593.	68.	62.	56.	51.	77847.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	789.	717.	652.	593.	68.	62.	56.	51.	77847.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	8088.	7412.	5114.	2713.	517.	464.	416.	383.	705219.
TOTAL CAPITAL COST	\$*1,000	118.	442.	97.	75.	52.	44.	37.	32.	506736.
TOTAL COST	\$*1,000	8206.	7854.	5212.	2788.	569.	508.	453.	415.	1211955.

OIL SAND RECLAMATION

A Study Integrating Mining, Tailings Disposal and Reclamation

9.0

240,000 BPCD

Bucket Wheel Mine

Enhanced Level

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR -5 -4 -3 -2 -1 1 2 3 4

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	1088.00	2209.00	2209.00	2209.00	2209.00	2209.00
OPERATING COST \$*1,000		0.	0.	0.	1088.	2209.	2209.	2209.	2209.	2209.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	11450.00	23433.00	11982.00	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	11450.	23433.	11982.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	11450.	23433.	13070.	2209.	2209.	2209.	2209.	2209.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		0.	0.	0.	200.00	300.00	400.00	400.00	400.00	400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		0.	0.	0.	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	200.	300.	400.	400.	400.	400.
NO. OF PERSONS PERSONS		0.	0.	0.	200.00	0.	200.00	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	15000.00	0.	15000.00	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	3000.	0.	3000.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	3200.	300.	3400.	400.	400.	400.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		0.	0.	0.	1288.	2509.	2609.	2609.	2609.	2609.
TOTAL CAPITAL COST \$*1,000		0.	11450.	23433.	14982.	0.	3000.	0.	0.	0.
TOTAL COST \$*1,000		0.	11450.	23433.	16270.	2509.	5609.	2609.	2609.	2609.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 BWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

1.1 MINE-POWER DISTRIBUTION & CONTROL

QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		2209.00	2209.00	2209.00	2209.00	2209.00	2209.00	2209.00	2209.00	2209.00
OPERATING COST \$*1,000		2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.

1.2 BUILDINGS

NO. OF PERSONS PERSONS		400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		400.	400.	400.	400.	400.	400.	400.	400.	400.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		400.	400.	400.	400.	400.	400.	400.	400.	400.

COST CENTRE SUMMARY

TOTAL OPERATING COST \$*1,000		2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.

	YEAR	14	15	16	17	18	19	20	21	22
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		2209.00	2209.00	2209.00	2209.00	2209.00	2209.00	2209.00	2209.00	2209.00
OPERATING COST \$*1,000		2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.	2209.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		400.	400.	400.	400.	400.	400.	400.	400.	400.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	400.	400.	400.	400.	400.	400.	400.	400.	400.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 RWE)
 COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
1.1 MINE-POWER DISTRIBUTION & CONTROL										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		2209.00	2209.00	2209.00	1424.00	0.	0.	0.	0.	59946.00
OPERATING COST \$*1,000		2209.	2209.	2209.	1424.	0.	0.	0.	0.	59946.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	46865.00
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	46865.
SUBTOTAL	\$*1,000	2209.	2209.	2209.	1424.	0.	0.	0.	0.	106811.
1.2 BUILDINGS										
NO. OF PERSONS PERSONS		400.00	400.00	400.00	400.00	54.00	54.00	54.00	54.00	11116.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/PERSON		1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		400.	400.	400.	400.	54.	54.	54.	54.	11116.
NO. OF PERSONS PERSONS		0.	0.	0.	0.	0.	0.	0.	0.	400.00
UNIT PRICE 2 \$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	15000.00
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	6000.
SUBTOTAL	\$*1,000	400.	400.	400.	400.	54.	54.	54.	54.	17116.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		2609.	2609.	2609.	1824.	54.	54.	54.	54.	71062.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	52865.
TOTAL COST	\$*1,000	2609.	2609.	2609.	1824.	54.	54.	54.	54.	123927.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.1 CLEARING										
AREA	HECTARES	1440.10	451.60	592.50	549.30	338.00	308.60	309.90	310.70	353.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1824.	572.	751.	696.	428.	391.	393.	394.	447.
AREA	HECTARES	1440.10	451.60	592.50	549.30	338.00	308.60	309.90	310.70	353.20
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	283.	89.	117.	108.	67.	61.	61.	61.	70.
SUBTOTAL	\$/1,000	2108.	661.	867.	804.	495.	452.	454.	455.	517.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	164.04	0.	36.35	165.10	132.00	122.00	97.20	56.40	52.20
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	0.	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	303.	0.	67.	305.	244.	226.	180.	104.	97.
DITCH VOLUME	1000 BCM	164.04	0.	36.35	165.10	132.00	122.00	97.20	56.40	52.20
UNIT PRICE 2	\$/1000 BCM	300.00	0.	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	49.	0.	11.	50.	40.	37.	29.	17.	16.
SUBTOTAL	\$/1,000	353.	0.	78.	355.	284.	262.	209.	121.	112.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	0.	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	348.	64.	1921.	0.	412.	2655.	2256.	1990.	1724.
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	0.	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	85.	16.	467.	0.	100.	646.	549.	484.	419.
SUBTOTAL	\$/1,000	433.	79.	2388.	0.	513.	3301.	2805.	2474.	2143.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
HAUL DISTANCE	KM	1.00	2.70	2.05	0.	1.70	2.34	3.53	2.70	3.00
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	0.	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	103.	51.	1160.	0.	207.	1830.	2346.	1583.	1524.
VOLUME*DISTANCE	1000 BCM*KM	409.20	202.50	4625.30	0.	823.50	7297.90	9354.50	6311.25	6075.00
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	0.	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	20.	10.	225.	0.	40.	355.	456.	307.	296.
SUBTOTAL	\$/1000	123.	61.	1385.	0.	247.	2186.	2802.	1890.	1819.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	0.	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	196.	36.	1082.	0.	232.	1495.	1270.	1121.	971.
VOLUME	1000 BCM	409.20	75.00	2256.25	0.	484.40	3118.75	2650.00	2337.50	2025.00
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	0.	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	14.	3.	78.	0.	17.	108.	92.	81.	70.
SUBTOTAL	\$/1000	210.	39.	1160.	0.	249.	1603.	1362.	1201.	1041.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	3.10	2.75	7.50	0.	0.30	4.24	9.26	0.90	1.85
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	0.	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	105.	93.	254.	0.	10.	143.	313.	30.	63.
LENGTH	KM	3.10	2.75	7.50	0.	0.30	4.24	9.26	0.90	1.85
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	0.	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	21.	19.	52.	0.	2.	29.	64.	6.	13.
SUBTOTAL	\$/1000	126.	112.	306.	0.	12.	173.	377.	37.	75.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1000	2880.	816.	5234.	1001.	1534.	6741.	6758.	5222.	4825.
TOTAL CAPITAL COST	\$/1000	473.	136.	950.	158.	265.	1236.	1250.	956.	883.
TOTAL COST	\$/1000	3353.	952.	6184.	1159.	1799.	7976.	8008.	6178.	5708.

	YEAR	5	6	7	8	9	10	11	12	13
2.1 CLEARING										
AREA	HECTARES	353.20	368.50	276.00	233.50	237.30	165.60	173.10	168.75	145.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	447.	467.	350.	296.	301.	210.	219.	214.	184.
AREA	HECTARES	353.20	368.50	276.00	233.50	237.30	165.60	173.10	168.75	145.60
UNIT PRICE 2	\$/HECTARE	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85	196.85
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	70.	73.	54.	46.	47.	33.	34.	33.	29.
SUBTOTAL	\$*1,000	517.	539.	404.	342.	347.	242.	253.	247.	213.
2.2 MUSKEG DEWATERING										
DITCH VOLUME	1000 BCM	33.60	25.80	130.80	133.80	132.60	118.80	56.40	15.00	3.60
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00	1850.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	62.	48.	242.	248.	245.	220.	104.	28.	7.
DITCH VOLUME	1000 BCM	33.60	25.80	130.80	133.80	132.60	118.80	56.40	15.00	3.60
UNIT PRICE 2	\$/1000 BCM	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	10.	8.	39.	40.	40.	36.	17.	5.	1.
SUBTOTAL	\$*1,000	72.	55.	281.	288.	285.	255.	121.	32.	8.
2.3 MUSKEG LOADING										
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40	851.40
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	1000.	926.	596.	458.	2320.	2373.	2352.	2107.	1000.
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
UNIT PRICE 2	\$/1000 BCM	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00	207.00
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	243.	225.	145.	111.	564.	577.	572.	512.	243.
SUBTOTAL	\$*1,000	1244.	1151.	741.	569.	2884.	2950.	2924.	2620.	1244.

	YEAR	5	6	7	8	9	10	11	12	13
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
HAUL DISTANCE	KM	2.40	2.40	2.80	3.47	3.35	2.66	3.45	4.28	4.70
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	707.	655.	492.	468.	2289.	1860.	2390.	2657.	1385.
VOLUME*DISTANCE	1000 BCM*KM	2820.00	2610.00	1960.00	1865.10	9128.50	7414.75	9530.60	10593.00	5522.50
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	137.	127.	95.	91.	445.	361.	464.	516.	269.
SUBTOTAL	\$/1,000	845.	782.	587.	559.	2734.	2221.	2854.	3173.	1654.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	563.	521.	336.	258.	1306.	1336.	1324.	1187.	563.
VOLUME	1000 BCM	1175.00	1087.50	700.00	537.50	2725.00	2787.50	2762.50	2475.00	1175.00
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	41.	38.	24.	19.	94.	96.	96.	86.	41.
SUBTOTAL	\$/1,000	604.	559.	360.	276.	1401.	1433.	1420.	1272.	604.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	3.80	3.30	1.10	7.60	2.05	3.40	4.20	8.60	2.90
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	129.	112.	37.	257.	69.	115.	142.	291.	98.
LENGTH	KM	3.80	3.30	1.10	7.60	2.05	3.40	4.20	8.60	2.90
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	26.	23.	8.	53.	14.	24.	29.	59.	20.
SUBTOTAL	\$/1,000	155.	134.	45.	310.	84.	139.	171.	350.	118.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	2909.	2728.	2052.	1983.	6531.	6114.	6532.	6483.	3238.
TOTAL CAPITAL COST	\$/1,000	527.	493.	366.	359.	1204.	1126.	1212.	1211.	603.
TOTAL COST	\$/1,000	3436.	3221.	2418.	2343.	7735.	7240.	7744.	7694.	3841.

		YEAR	14	15	16	17	18	19	20	21	22
2.1 CLEARING											
AREA	HECTARES		133.75	118.10	104.40	95.00	81.25	86.25	141.90	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	1266.82	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		169.	150.	132.	120.	103.	109.	180.	0.	0.
AREA	HECTARES		133.75	118.10	104.40	95.00	81.25	86.25	141.90	0.	0.
UNIT PRICE 2	\$/HECTARE		196.85	196.85	196.85	196.85	196.85	196.85	196.85	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		26.	23.	21.	19.	16.	17.	28.	0.	0.
SUBTOTAL	\$/1,000		196.	173.	153.	139.	119.	126.	208.	0.	0.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		0.	1.25	3.00	3.25	3.50	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	1850.00	1850.00	1850.00	1850.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	2.	6.	6.	6.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	1.25	3.00	3.25	3.50	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	300.00	300.00	300.00	300.00	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	1.	1.	1.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	3.	6.	7.	8.	0.	0.	0.	0.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		851.40	851.40	0.	851.40	851.40	851.40	851.40	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		266.	64.	0.	13.	32.	35.	37.	0.	0.
VOLUME	1000 BCM		312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
UNIT PRICE 2	\$/1000 BCM		207.00	207.00	0.	207.00	207.00	207.00	207.00	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		65.	16.	0.	3.	8.	8.	9.	0.	0.
SUBTOTAL	\$/1,000		331.	79.	0.	17.	40.	43.	46.	0.	0.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 BWE)
 COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	14	15	16	17	18	19	20	21	22
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
HAUL DISTANCE	KM	4.10	3.60	0.	2.00	1.80	1.60	1.50	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	250.80	250.80	0.	250.80	250.80	250.80	250.80	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	321.	68.	0.	8.	17.	16.	16.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	1281.25	270.00	0.	31.20	67.50	65.00	65.60	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	48.70	48.70	0.	48.70	48.70	48.70	48.70	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	62.	13.	0.	2.	3.	3.	3.	0.	0.
SUBTOTAL	\$/1,000	384.	81.	0.	9.	20.	19.	20.	0.	0.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	479.40	479.40	0.	479.40	479.40	479.40	479.40	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	150.	36.	0.	7.	18.	19.	21.	0.	0.
VOLUME	1000 BCM	312.50	75.00	0.	15.60	37.50	40.60	43.75	0.	0.
UNIT PRICE 2	\$/1000 BCM	34.60	34.60	0.	34.60	34.60	34.60	34.60	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	11.	3.	0.	1.	1.	1.	2.	0.	0.
SUBTOTAL	\$/1,000	161.	39.	0.	8.	19.	21.	22.	0.	0.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.50	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	33825.11	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	17.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.50	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	6915.90	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	3.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	20.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	907.	319.	138.	155.	176.	196.	254.	0.	0.
TOTAL CAPITAL COST	\$/1,000	164.	55.	21.	25.	29.	33.	42.	0.	0.
TOTAL COST	\$/1,000	1071.	374.	159.	180.	206.	230.	296.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
2.1 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	7536.10
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	1266.82
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	9547.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	7536.10
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	196.85
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	1483.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	11030.
2.2 MUSKEG DEWATERING											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1486.69
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1850.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	2750.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	1486.69
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	300.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	446.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	3196.
2.3 MUSKEG LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	29306.05
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	851.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	24951.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	29306.05
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	207.00
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	6066.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	31018.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
2.4 MUSKEG HAULING (INCL. ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	29306.05
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	3.01
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	250.80
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	22152.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	88324.15
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	48.70
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	4301.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	26453.
2.5 MUSKEG PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	29306.05
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	479.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	14049.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	29306.05
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	34.60
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1014.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	15063.
2.6 MUSKEG ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	67.35
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2278.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	67.35
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	466.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	2744.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	75728.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	13777.
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	89505.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	0.	0.	0.	22076.00	37323.00	69703.00	126908.00	132596.00	133588.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	137.21	137.21	137.21	137.21	137.21	137.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	3029.	5121.	9564.	17413.	18194.	18330.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	31658.00	54164.00	76286.00	44247.00	22505.00	0.	0.	0.	0.
CAPITAL COST	\$/1,000	31658.	54164.	76286.	44247.	22505.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	31658.	54164.	76286.	47276.	27626.	9564.	17413.	18194.	18330.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY No.1 ENHANCED LEVEL (6 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	0.	0.	0.	22076.00	37323.00	102335.00	204208.00	216202.00	219646.00
DISTANCE	M	0.	0.	0.	13100.00	19870.00	79390.00	82300.00	80450.00	86900.00
UNIT PRICE 1	\$/1000 BCM*M	0.	0.	0.	0.00	0.00	0.00	0.00	0.00	0.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	687.	1761.	19295.	39915.	41309.	45332.
CONV. INCREASE	M	0.	0.	0.	13100.00	6770.00	59520.00	3060.00	0.	4600.00
UNIT PRICE 2	\$/M	0.	0.	0.	4598.88	4501.68	4543.40	4497.95	0.	4497.95
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	60245.	30476.	270423.	13764.	0.	20691.
SUBTOTAL	\$/1,000	0.	0.	0.	60932.	32238.	289719.	53679.	41309.	66023.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	0.	0.	0.	22076.00	37323.00	71316.00	130729.00	136729.00	137842.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	51.89	51.89	51.89	51.89	51.89	51.89
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	1146.	1937.	3701.	6784.	7095.	7153.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	13775.00	22040.00	28927.50	19285.50	11020.00	4132.50	0.	0.	0.
CAPITAL COST	\$/1,000	13775.	22040.	28928.	19286.	11020.	4133.	0.	0.	0.
SUBTOTAL	\$/1,000	13775.	22040.	28928.	20431.	12957.	7833.	6784.	7095.	7153.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	6613.00	13226.00	13226.00	13226.00	13226.00	13226.00
OPERATING COST	\$/1,000	0.	0.	0.	6613.	13226.	13226.	13226.	13226.	13226.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	12295.00	12295.00	0.	0.	0.	5560.00
CAPITAL COST	\$/1,000	0.	0.	0.	12295.	12295.	0.	0.	0.	5560.
SUBTOTAL	\$/1,000	0.	0.	0.	18908.	25521.	13226.	13226.	13226.	18786.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	11474.	22045.	45786.	77338.	79824.	84041.
TOTAL CAPITAL COST	\$/1,000	45433.	76204.	105214.	136073.	76296.	274556.	13764.	0.	26251.
TOTAL COST	\$/1,000	45433.	76204.	105214.	147547.	98342.	320342.	91102.	79824.	110292.

	YEAR	5	6	7	8	9	10	11	12	13
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	130181.00	131329.00	132921.00	130777.00	131894.00	131969.00	131975.00	131976.00	131951.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	17863.	18020.	18238.	17944.	18098.	18108.	18109.	18109.	18105.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	17863.	18020.	18238.	17944.	18098.	18108.	18109.	18109.	18105.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 BWE)
 COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	5	6	7	8	9	10	11	12	13
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	216682.00	218254.00	221739.00	218841.00	214003.00	212763.00	212528.00	213887.00	211426.00
DISTANCE	M	89650.00	94300.00	102900.00	107530.00	107000.00	108450.00	106600.00	106200.00	97340.00
UNIT PRICE 1	\$/1000 BCM*M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	46136.	48881.	54190.	55888.	54384.	54801.	53807.	53948.	48878.
CONV. INCREASE	M	2600.00	4650.00	8600.00	4630.00	2050.00	650.00	0.	0.	0.
UNIT PRICE 2	\$/M	4529.01	4533.76	4527.06	4570.98	4598.88	4598.88	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	11775.	21082.	38933.	21164.	9428.	2989.	0.	0.	0.
SUBTOTAL	\$/1,000	57911.	69963.	93123.	77052.	63811.	57790.	53807.	53948.	48878.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	134457.00	135626.00	137311.00	135130.00	135953.00	135963.00	135957.00	136025.00	135879.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	51.89	51.89	51.89	51.89	51.89	51.89	51.89	51.89	51.89
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	6977.	7038.	7125.	7012.	7055.	7055.	7055.	7058.	7051.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	6977.	7038.	7125.	7012.	7055.	7055.	7055.	7058.	7051.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00
OPERATING COST	\$/1,000	13226.	13226.	13226.	13226.	13226.	13226.	13226.	13226.	13226.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	5560.00	961.00	960.00	0.	5560.00	5560.00	0.	0.	961.00
CAPITAL COST	\$/1,000	5560.	961.	960.	0.	5560.	5560.	0.	0.	961.
SUBTOTAL	\$/1,000	18786.	14187.	14186.	13226.	18786.	18786.	13226.	13226.	14187.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	84201.	87165.	92780.	94071.	92762.	93190.	92196.	92341.	87260.
TOTAL CAPITAL COST	\$/1,000	17335.	22043.	39893.	21164.	14988.	8549.	0.	0.	961.
TOTAL COST	\$/1,000	101537.	109208.	132673.	115234.	107750.	101739.	92196.	92341.	88221.

	YEAR	14	15	16	17	18	19	20	21	22
3.1 OVERBURDEN RWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 RWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	131950.00	132019.00	132743.00	133189.00	130095.00	131703.00	131950.00	131951.00	131954.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21	137.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18105.	18115.	18214.	18275.	17851.	18071.	18105.	18105.	18106.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	18105.	18115.	18214.	18275.	17851.	18071.	18105.	18105.	18106.

	YEAR	14	15	16	17	18	19	20	21	22
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	215263.00	216532.00	220308.00	216519.00	214094.00	221916.00	222895.00	222971.00	221160.00
DISTANCE	M	92690.00	91500.00	87050.00	78200.00	78360.00	79240.00	84490.00	86950.00	93550.00
UNIT PRICE 1	\$/1000 BCM*M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	47388.	47055.	45547.	40213.	39844.	41763.	44727.	46045.	49138.
CONV. INCREASE	M	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/M	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	47388.	47055.	45547.	40213.	39844.	41763.	44727.	46045.	49138.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	136068.00	136196.00	137071.00	137308.00	134247.00	136162.00	136445.00	136450.00	136363.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	51.89	51.89	51.89	51.89	51.89	51.89	51.89	51.89	51.89
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	7061.	7067.	7113.	7125.	6966.	7066.	7080.	7081.	7076.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	7061.	7067.	7113.	7125.	6966.	7066.	7080.	7081.	7076.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00	13226.00
OPERATING COST	\$/1,000	13226.	13226.	13226.	13226.	13226.	13226.	13226.	13226.	13226.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	8545.00	7584.00	0.	0.	0.	5560.00	6521.00	960.00	0.
CAPITAL COST	\$/1,000	8545.	7584.	0.	0.	0.	5560.	6521.	960.	0.
SUBTOTAL	\$/1,000	21771.	20810.	13226.	13226.	13226.	18786.	19747.	14186.	13226.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	85780.	85463.	84100.	78839.	77887.	80126.	83138.	84457.	87545.
TOTAL CAPITAL COST	\$/1,000	8545.	7584.	0.	0.	0.	5560.	6521.	960.	0.
TOTAL COST	\$/1,000	94325.	93047.	84100.	78839.	77887.	85686.	89659.	85417.	87545.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.1 OVERBURDEN BWE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.2 OIL SANDS DRAGLINES / HOPPERS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3.3 BWE (OVERBURDEN & OIL SANDS)										
VOLUME	1000 BCM	131956.00	121152.00	72918.00	29389.00	0.	0.	0.	0.	3250136.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	137.21	137.21	137.21	137.21	0.	0.	0.	0.	137.21
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	18106.	16624.	10005.	4033.	0.	0.	0.	0.	445961.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	228860.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	228860.
SUBTOTAL	\$/1,000	18106.	16624.	10005.	4033.	0.	0.	0.	0.	674821.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY No.1 ENHANCED LEVEL (6 BWE)
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TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
3.4 TRANSPORT (ALL CONVEYORS)										
VOLUME	1000 BCM	218863.00	197840.00	131834.00	56415.00	0.	0.	0.	0.	5318523.00
DISTANCE	M	97600.00	101450.00	103350.00	89610.00	0.	0.	0.	0.	92126.80
UNIT PRICE 1	\$/1000 BCM*M	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.00
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	50732.	47668.	32359.	12006.	0.	0.	0.	0.	1163699.
CONV. INCREASE	M	1620.00	2350.00	1050.00	0.	0.	0.	0.	0.	115250.00
UNIT PRICE 2	\$/M	4598.88	4598.88	4598.88	0.	0.	0.	0.	0.	4547.13
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1.000	7450.	10807.	4829.	0.	0.	0.	0.	0.	524056.
SUBTOTAL	\$/1.000	58183.	58476.	37188.	12006.	0.	0.	0.	0.	1687755.
3.5 PLACEMENT (SPREADER)										
VOLUME	1000 BCM	136252.00	124943.00	75830.00	30725.00	0.	0.	0.	0.	3352376.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	51.89	51.89	51.89	51.89	0.	0.	0.	0.	51.89
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1.000	7070.	6483.	3935.	1594.	0.	0.	0.	0.	173958.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	99180.50
CAPITAL COST	\$/1.000	0.	0.	0.	0.	0.	0.	0.	0.	99181.
SUBTOTAL	\$/1.000	7070.	6483.	3935.	1594.	0.	0.	0.	0.	273139.
3.6 MISCELLANEOUS EQUIPMENT										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	13226.00	13226.00	13226.00	8597.00	0.	0.	0.	0.	359086.00
OPERATING COST	\$/1.000	13226.	13226.	13226.	8597.	0.	0.	0.	0.	359086.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1.000	0.	5560.00	0.	0.	0.	0.	0.	0.	84442.00
CAPITAL COST	\$/1.000	0.	5560.	0.	0.	0.	0.	0.	0.	84442.
SUBTOTAL	\$/1.000	13226.	18786.	13226.	8597.	0.	0.	0.	0.	443528.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1.000	89135.	84001.	59526.	26230.	0.	0.	0.	0.	2142704.
TOTAL CAPITAL COST	\$/1.000	7450.	16367.	4829.	0.	0.	0.	0.	0.	936539.
TOTAL COST	\$/1.000	96585.	100369.	64354.	26230.	0.	0.	0.	0.	3079243.

YEAR -5 -4 -3 -2 -1 1 2 3 4

4.1 AREA DRAINAGE

DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.2 CLEARING

AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR		-5	-4	-3	-2	-1	1	2	3	4
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/ (PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR		-5	-4	-3	-2	-1	1	2	3	4
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

YEAR		-5	-4	-3	-2	-1	1	2	3	4
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME	1000 LCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 LCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.1 AREA DRAINAGE										
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING										
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	14	15	16	17	18	19	20	21	22
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3,4)											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)											
VOLUME	1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME 1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 CUM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME 1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/1000 LCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2 \$/KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
4.1 AREA DRAINAGE											
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
DITCH VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.2 CLEARING											
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
AREA	HECTARES		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
4.3 CONSTRUCTION OF STARTER DAMS / OB DAMS											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.4 PIPING WET TAILINGS (CONVEYING DRY TAILINGS IN COST CTR. 3.4)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.5 TAILINGS SAND PLACEMENT INTO DYKE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.6 TAILINGS OVERBOARDING/SANDING/(PLACEMENT DRY TAILINGS IN 3.5)										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.7 RECYCLING OF TAILINGS WATER										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.8 REHANDLING OF TAILINGS SLUDGE										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.9 SLUDGE TREATMENT										
VOLUME	1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 CUM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST \$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
4.10 POWER DISTRIBUTION										
QUANTITY 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.11 OVERSIZE REJECT DISPOSAL										
VOLUME	1000 LCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 LCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 LCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 LCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4.12 OVERSIZE REJECT DISPOSAL ROAD CONSTRUCTION										
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.7 OVERBURDEN REHANDLE PLACEMENT											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION											
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	437.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	2329.44
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	1018.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	5917.87	5917.87	5917.87	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	5918.	5918.	5918.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	5918.	5918.	5918.	0.	1018.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1310.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1090.34
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	1428.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	5889.00	5891.00	18859.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	5889.	5891.	18859.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	5889.	5891.	20287.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1310.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	563.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1310.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	151.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	714.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	1310.00
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	1.50
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	417.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	1965.00
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	72.29
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	142.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	559.

		YEAR	-5	-4	-3	-2	-1	1	2	3	4
5.13 PREPARED SOIL PLACEMENT, TRUCKS											
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	1310.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	197.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	1310.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	32.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	229.
5.14 PREPARED SOIL ROAD CONSTRUCTION											
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.86
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	266.
LENGTH	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.86
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	54.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	320.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE											
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	131.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	768.05
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	65.70
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	166.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	166.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	4057.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	5918.	11807.	11809.	19238.	
TOTAL COST	\$/1,000	0.	0.	0.	0.	0.	5918.	11807.	11809.	23295.	

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 RWE)
 COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

YEAR 5 6 7 8 9 10 11 12 13

5.1 MUSKEG REHANDLE LOADING

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

5.3 MUSKEG REHANDLE PLACEMENT

VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$\$1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	5	6	7	8	9	10	11	12	13
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	437.00	493.00	493.00	600.00	600.00	600.00	600.00	600.00	600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1018.	1148.	1148.	1398.	1398.	1398.	1398.	1398.	1398.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1018.	1148.	1148.	1398.	1398.	1398.	1398.	1398.	1398.

		YEAR	5	6	7	8	9	10	11	12	13
5.10 PREPARED SOIL MANUFACTURE											
VOLUME	1000 BCM		1310.00	1480.00	1480.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		1428.	1614.	1614.	1963.	1963.	1963.	1963.	1963.	1963.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	12553.00	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	12553.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		1428.	14167.	1614.	1963.	1963.	1963.	1963.	1963.	1963.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS											
VOLUME	1000 BCM		1310.00	1480.00	1480.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		563.	637.	637.	774.	774.	774.	774.	774.	774.
VOLUME	1000 BCM		1310.00	1480.00	1480.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
UNIT PRICE 2	\$/1000 BCM		115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		151.	170.	170.	207.	207.	207.	207.	207.	207.
SUBTOTAL	\$/1,000		714.	807.	807.	981.	981.	981.	981.	981.	981.
5.12 PREPARED SOIL TRANSPORT, TRUCKS											
VOLUME	1000 BCM		1310.00	1480.00	1480.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
HAUL DISTANCE	KM		1.50	1.80	1.80	1.00	2.00	3.00	1.50	2.00	3.00
UNIT PRICE 1	\$/1000 BCM*KM		212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		417.	566.	566.	382.	765.	1147.	573.	765.	1147.
VOLUME*DISTANCE	1000 BCM*KM		1965.00	2664.00	2664.00	1800.00	3600.00	3600.00	3600.00	3600.00	3600.00
UNIT PRICE 2	\$/1000 BCM*KM		72.29	61.06	61.06	105.99	55.44	19.34	72.29	55.44	19.34
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		142.	163.	163.	191.	200.	70.	260.	200.	70.
SUBTOTAL	\$/1,000		559.	728.	728.	573.	964.	1217.	834.	964.	1217.

	YEAR	5	6	7	8	9	10	11	12	13
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	1310.00	1480.00	1480.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	197.	223.	223.	271.	271.	271.	271.	271.	271.
VOLUME	1000 BCM	1310.00	1480.00	1480.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	32.	36.	36.	44.	44.	44.	44.	44.	44.
SUBTOTAL	\$/1,000	229.	259.	259.	315.	315.	315.	315.	315.	315.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	7.86	8.88	8.88	10.80	10.80	10.80	10.80	10.80	10.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	266.	300.	300.	365.	365.	365.	365.	365.	365.
LENGTH	KM	7.86	8.88	8.88	10.80	10.80	10.80	10.80	10.80	10.80
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	54.	61.	61.	75.	75.	75.	75.	75.	75.
SUBTOTAL	\$/1,000	320.	362.	362.	440.	440.	440.	440.	440.	440.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	131.00	148.00	148.00	180.00	180.00	180.00	180.00	180.00	180.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	131.39	205.61	279.84	370.11	460.38	550.65	640.92	731.19	821.46
OPERATING COST	\$/1,000	232.	319.	394.	508.	599.	689.	779.	869.	960.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	232.	319.	394.	508.	599.	689.	779.	869.	960.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	4122.	4807.	4881.	5662.	6134.	6607.	6123.	6405.	6877.
TOTAL CAPITAL COST	\$/1,000	379.	12984.	431.	517.	525.	396.	586.	525.	396.
TOTAL COST	\$/1,000	4501.	17791.	5312.	6178.	6660.	7002.	6710.	6930.	7273.

	YEAR	14	15	16	17	18	19	20	21	22
5.1 MUSKEG REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	14	15	16	17	18	19	20	21	22
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	600.00	600.00	600.00	600.00	600.00	600.00	600.00	600.00	600.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1000	1398.	1398.	1398.	1398.	1398.	1398.	1398.	1398.	1398.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1000	1398.	1398.	1398.	1398.	1398.	1398.	1398.	1398.	1398.

YEAR 14 15 16 17 18 19 20 21 22

5.10 PREPARED SOIL MANUFACTURE

VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1963.	1963.	1963.	1963.	1963.	1963.	1963.	1963.	1963.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1963.	1963.	1963.	1963.	1963.	1963.	1963.	1963.	1963.

5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS

VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	774.	774.	774.	774.	774.	774.	774.	774.	774.
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	207.	207.	207.	207.	207.	207.	207.	207.	207.
SUBTOTAL	\$/1,000	981.	981.	981.	981.	981.	981.	981.	981.	981.

5.12 PREPARED SOIL TRANSPORT, TRUCKS

VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
HAUL DISTANCE	KM	3.70	4.20	1.00	1.30	1.70	1.50	1.00	0.50	1.70
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1415.	1606.	382.	497.	650.	573.	382.	191.	650.
VOLUME*DISTANCE	1000 BCM*KM	6660.00	7560.00	1800.00	2340.00	3060.00	2700.00	1800.00	900.00	3060.00
UNIT PRICE 2	\$/1000 BCM*KM	32.21	28.97	105.99	82.66	64.36	72.29	105.99	207.01	64.36
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	215.	219.	191.	193.	197.	195.	191.	186.	197.
SUBTOTAL	\$/1,000	1629.	1825.	573.	690.	847.	769.	573.	377.	847.

	YEAR	14	15	16	17	18	19	20	21	22
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	271.	271.	271.	271.	271.	271.	271.	271.	271.
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	44.	44.	44.	44.	44.	44.	44.	44.	44.
SUBTOTAL	\$/1,000	315.	315.	315.	315.	315.	315.	315.	315.	315.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	10.80	10.80	10.80	10.80	10.80	10.80	10.80	10.80	10.80
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	365.	365.	365.	365.	365.	365.	365.	365.	365.
LENGTH	KM	10.80	10.80	10.80	10.80	10.80	10.80	10.80	10.80	10.80
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	75.	75.	75.	75.	75.	75.	75.	75.	75.
SUBTOTAL	\$/1,000	440.	440.	440.	440.	440.	440.	440.	440.	440.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	911.73	1002.00	1092.27	1182.54	1272.81	1363.08	1453.62	1543.62	1633.89
OPERATING COST	\$/1,000	1050.	1140.	1231.	1321.	1411.	1501.	1592.	1682.	1772.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1050.	1140.	1231.	1321.	1411.	1501.	1592.	1682.	1772.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	7235.	7517.	6384.	6589.	6832.	6846.	6745.	6644.	7193.
TOTAL CAPITAL COST	\$/1,000	540.	545.	517.	519.	523.	521.	517.	512.	523.
TOTAL COST	\$/1,000	7776.	8062.	6900.	7108.	7355.	7367.	7262.	7156.	7716.

		YEAR	23	24	25	26	27	28	29	30	TOTALS
5.1 MUSKEG REHANDLE LOADING											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.2 MUSKEG REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
5.3 MUSKEG REHANDLE PLACEMENT											
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.4 MUSKEG REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.5 OVERBURDEN REHANDLE LOADING										
VOLUME	1000 BCM	0.	0.	900.00	1200.00	1193.00	1180.00	1180.00	1180.00	6833.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	373.56	373.56	373.56	373.56	373.56	373.56	373.56
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	336.	448.	446.	441.	441.	441.	2553.
VOLUME	1000 BCM	0.	0.	900.00	1200.00	1193.00	1180.00	1180.00	1180.00	6833.00
UNIT PRICE 2	\$/1000 BCM	0.	0.	43.86	43.86	43.86	43.86	43.86	43.86	43.86
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	39.	53.	52.	52.	52.	52.	300.
SUBTOTAL	\$*1,000	0.	0.	376.	501.	498.	493.	493.	493.	2852.
5.6 OVERBURDEN REHANDLE HAULING (INCLUDING ROAD MAINTENANCE)										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
HAUL DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME*DISTANCE	1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM*KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.7 OVERBURDEN REHANDLE PLACEMENT										
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.8 OVERBURDEN REHANDLE ROAD CONSTRUCTION										
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISTANCE	KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/KM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5.9 MUSKEG MINING, SLURRY TRANSPORT & DEWATERING										
VOLUME	1000 BCM	600.00	600.00	600.00	600.00	597.00	590.00	590.00	590.00	15627.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44	2329.44
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1398.	1398.	1398.	1398.	1391.	1374.	1374.	1374.	36402.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	17753.60
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	17754.
SUBTOTAL	\$/1,000	1398.	1398.	1398.	1398.	1391.	1374.	1374.	1374.	54156.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.10 PREPARED SOIL MANUFACTURE										
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1790.00	1770.00	1770.00	1770.00	46880.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34	1090.34
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	1963.	1963.	1963.	1963.	1952.	1930.	1930.	1930.	51115.
VOLUME	1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/1000 BCM	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	43192.00
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	43192.
SUBTOTAL	\$/1,000	1963.	1963.	1963.	1963.	1952.	1930.	1930.	1930.	94307.
5.11 PREPARED SOIL LOADING, F.E.L. TRUCKS										
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1790.00	1770.00	1770.00	1770.00	46880.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12	430.12
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	774.	774.	774.	774.	770.	761.	761.	761.	20164.
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1790.00	1770.00	1770.00	1770.00	46880.00
UNIT PRICE 2	\$/1000 BCM	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03	115.03
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	207.	207.	207.	207.	206.	204.	204.	204.	5393.
SUBTOTAL	\$/1,000	981.	981.	981.	981.	976.	965.	965.	965.	25557.
5.12 PREPARED SOIL TRANSPORT, TRUCKS										
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1790.00	1770.00	1770.00	1770.00	46880.00
HAUL DISTANCE	KM	0.60	1.00	1.50	2.00	3.00	2.50	2.00	1.20	1.84
UNIT PRICE 1	\$/1000 BCM*KM	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40	212.40
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	229.	382.	573.	765.	1141.	940.	752.	451.	18325.
VOLUME*DISTANCE	1000 BCM*KM	1080.00	1800.00	2700.00	3600.00	5370.00	4425.00	3540.00	2124.00	83577.00
UNIT PRICE 2	\$/1000 BCM*KM	173.35	105.99	72.29	55.44	19.34	45.33	55.44	89.31	57.98
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	187.	191.	195.	200.	104.	201.	196.	190.	4846.
SUBTOTAL	\$/1,000	417.	573.	769.	964.	1244.	1140.	948.	641.	23171.

	YEAR	23	24	25	26	27	28	29	30	TOTALS
5.13 PREPARED SOIL PLACEMENT, TRUCKS										
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1790.00	1770.00	1770.00	1770.00	46880.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/1000 BCM	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57	150.57
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	271.	271.	271.	271.	270.	267.	267.	267.	7059.
VOLUME	1000 BCM	1800.00	1800.00	1800.00	1800.00	1790.00	1770.00	1770.00	1770.00	46880.00
UNIT PRICE 2	\$/1000 BCM	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	44.	44.	44.	44.	44.	43.	43.	43.	1149.
SUBTOTAL	\$/1,000	315.	315.	315.	315.	313.	310.	310.	310.	8208.
5.14 PREPARED SOIL ROAD CONSTRUCTION										
LENGTH	KM	10.80	10.80	10.80	10.80	10.74	10.62	10.62	10.62	281.28
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/KM	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11	33825.11
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	365.	365.	365.	365.	363.	359.	359.	359.	9514.
LENGTH	KM	10.80	10.80	10.80	10.80	10.74	10.62	10.62	10.62	281.28
UNIT PRICE 2	\$/KM	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90	6915.90
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	75.	75.	75.	75.	74.	73.	73.	73.	1945.
SUBTOTAL	\$/1,000	440.	440.	440.	440.	438.	433.	433.	433.	11460.
5.15 SEED BED PREPARATION, PLANTING & MAINTENANCE										
AREA	HECTARES	180.00	180.00	180.00	180.00	179.00	177.00	177.00	177.00	4688.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/HECTARE	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05	768.05
ADDITIONAL COST	\$/1,000	1724.16	1814.43	1905.20	1994.97	2084.73	2173.50	2262.27	2351.03	32023.05
OPERATING COST	\$/1,000	1862.	1953.	2043.	2133.	2222.	2309.	2398.	2487.	35624.
AREA	HECTARES	0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2	\$/HECTARE	0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	1862.	1953.	2043.	2133.	2222.	2309.	2398.	2487.	35624.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	6863.	7106.	7724.	8117.	8554.	8381.	8282.	8070.	180756.
TOTAL CAPITAL COST	\$/1,000	513.	517.	561.	578.	480.	573.	568.	562.	74579.
TOTAL COST	\$/1,000	7376.	7622.	8284.	8695.	9034.	8954.	8851.	8632.	255334.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	8.00	15.00	37.00	73.00	110.00	146.00	146.00	146.00	146.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	234.	438.	1080.	2131.	3211.	4262.	4262.	4262.	4262.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	234.	438.	1080.	2131.	3211.	4262.	4262.	4262.	4262.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	6.00	12.00	30.00	60.00	90.00	119.00	119.00	119.00	119.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	168.	336.	841.	1682.	2522.	3335.	3335.	3335.	3335.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	168.	336.	841.	1682.	2522.	3335.	3335.	3335.	3335.
6.3 MINING										
NO. OF PERSONS	PERSONS	7.00	14.00	34.00	68.00	102.00	135.00	135.00	135.00	135.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	208.	416.	1011.	2022.	3032.	4014.	4014.	4014.	4014.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	208.	416.	1011.	2022.	3032.	4014.	4014.	4014.	4014.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	610.	1190.	2932.	5834.	8766.	11611.	11611.	11611.	11611.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	610.	1190.	2932.	5834.	8766.	11611.	11611.	11611.	11611.

	YEAR	5	6	7	8	9	10	11	12	13
6.1 EQUIPMENT MAINTENANCE										
NO. OF PERSONS	PERSONS	146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.
6.2 PLANNING										
NO. OF PERSONS	PERSONS	119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.
6.3 MINING										
NO. OF PERSONS	PERSONS	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$/1,000	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.

		YEAR	14	15	16	17	18	19	20	21	22
6.1 EQUIPMENT MAINTENANCE											
NO. OF PERSONS	PERSONS		146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00	146.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.	4262.
6.2 PLANNING											
NO. OF PERSONS	PERSONS		119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00	119.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.	3335.
6.3 MINING											
NO. OF PERSONS	PERSONS		135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00
QUANTITY 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON		29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/PERSON		4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.
QUANTITY 3			0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2			0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/PERSON		4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.	4014.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$/PERSON		11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.
TOTAL CAPITAL COST	\$/PERSON		0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/PERSON		11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.

YEAR 23 24 25 26 27 28 29 30 TOTALS

6.1 EQUIPMENT MAINTENANCE

NO. OF PERSONS	PERSONS	146.00	146.00	146.00	146.00	19.00	19.00	19.00	19.00	4115.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00	29195.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4262.	4262.	4262.	4262.	555.	555.	555.	555.	120137.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4262.	4262.	4262.	4262.	555.	555.	555.	555.	120137.

6.2 PLANNING

NO. OF PERSONS	PERSONS	119.00	119.00	119.00	119.00	24.00	24.00	24.00	24.00	3388.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00	28025.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	3335.	3335.	3335.	3335.	673.	673.	673.	673.	94949.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	3335.	3335.	3335.	3335.	673.	673.	673.	673.	94949.

6.3 MINING

NO. OF PERSONS	PERSONS	135.00	135.00	135.00	135.00	11.00	11.00	11.00	11.00	3779.00
QUANTITY 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 1	\$/PERSON	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00	29730.00
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPERATING COST	\$/1,000	4014.	4014.	4014.	4014.	327.	327.	327.	327.	112350.
QUANTITY 3		0.	0.	0.	0.	0.	0.	0.	0.	0.
UNIT PRICE 2		0.	0.	0.	0.	0.	0.	0.	0.	0.
ADDITIONAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$/1,000	4014.	4014.	4014.	4014.	327.	327.	327.	327.	112350.

COST CENTRE SUMMARY

TOTAL OPERATING COST	\$/1,000	11611.	11611.	11611.	11611.	1554.	1554.	1554.	1554.	327436.
TOTAL CAPITAL COST	\$/1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL COST	\$/1,000	11611.	11611.	11611.	11611.	1554.	1554.	1554.	1554.	327436.

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	1288.	2509.	2609.	2609.	2609.	2609.
CAPITAL COST	\$*1,000	0.	11450.	23433.	14982.	0.	3000.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	11450.	23433.	16270.	2509.	5609.	2609.	2609.	2609.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2880.	816.	5234.	1001.	1534.	6741.	6758.	5222.	4825.
CAPITAL COST	\$*1,000	473.	136.	950.	158.	265.	1236.	1250.	956.	883.
SUBTOTAL	\$*1,000	3353.	952.	6184.	1159.	1799.	7976.	8008.	6178.	5708.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	11474.	22045.	45786.	77338.	79824.	84041.
CAPITAL COST	\$*1,000	45433.	76204.	105214.	136073.	76296.	274556.	13764.	0.	26251.
SUBTOTAL	\$*1,000	45433.	76204.	105214.	147547.	98342.	320342.	91102.	79824.	110292.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	4057.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	5918.	11807.	11809.	19238.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	5918.	11807.	11809.	23295.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	610.	1190.	2932.	5834.	8766.	11611.	11611.	11611.	11611.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	610.	1190.	2932.	5834.	8766.	11611.	11611.	11611.	11611.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	3490.	2006.	8166.	19598.	34854.	66747.	98316.	99266.	107143.
TOTAL CAPITAL COST	\$*1,000	45906.	87790.	129596.	151212.	76562.	284709.	26821.	12765.	46372.
TOTAL COST	\$*1,000	49396.	89796.	137762.	170811.	111416.	351456.	125137.	112032.	153514.

	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2909.	2728.	2052.	1983.	6531.	6114.	6532.	6483.	3238.
CAPITAL COST	\$*1,000	527.	493.	366.	359.	1204.	1126.	1212.	1211.	603.
SUBTOTAL	\$*1,000	3436.	3221.	2418.	2343.	7735.	7240.	7744.	7694.	3841.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	84201.	87165.	92780.	94071.	92762.	93190.	92196.	92341.	87260.
CAPITAL COST	\$*1,000	17335.	22043.	39893.	21164.	14988.	8549.	0.	0.	961.
SUBTOTAL	\$*1,000	101537.	109208.	132673.	115234.	107750.	101739.	92196.	92341.	88221.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	4122.	4807.	4881.	5662.	6134.	6607.	6123.	6405.	6877.
CAPITAL COST	\$*1,000	379.	12984.	431.	517.	525.	396.	586.	525.	396.
SUBTOTAL	\$*1,000	4501.	17791.	5312.	6178.	6660.	7002.	6710.	6930.	7273.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	105453.	108920.	113933.	115936.	119647.	120131.	119072.	119449.	111596.
TOTAL CAPITAL COST	\$*1,000	18242.	35520.	40689.	22040.	16717.	10071.	1798.	1737.	1959.
TOTAL COST	\$*1,000	123694.	144439.	154622.	137975.	136364.	130202.	120870.	121185.	113555.

	YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.	2609.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	907.	319.	138.	155.	176.	196.	254.	0.	0.
CAPITAL COST	\$*1,000	164.	55.	21.	25.	29.	33.	42.	0.	0.
SUBTOTAL	\$*1,000	1071.	374.	159.	180.	206.	230.	296.	0.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	85780.	85463.	84100.	78839.	77887.	80126.	83138.	84457.	87545.
CAPITAL COST	\$*1,000	8545.	7584.	0.	0.	0.	5560.	6521.	960.	0.
SUBTOTAL	\$*1,000	94325.	93047.	84100.	78839.	77887.	85686.	89659.	85417.	87545.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	7235.	7517.	6384.	6589.	6832.	6846.	6745.	6644.	7193.
CAPITAL COST	\$*1,000	540.	545.	517.	519.	523.	521.	517.	512.	523.
SUBTOTAL	\$*1,000	7776.	8062.	6900.	7108.	7355.	7367.	7262.	7156.	7716.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.	11611.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	108142.	107519.	104842.	99803.	99115.	101389.	104358.	105321.	108958.
TOTAL CAPITAL COST	\$*1,000	9250.	8184.	538.	544.	552.	6114.	7079.	1472.	523.
TOTAL COST	\$*1,000	117391.	115703.	105380.	100347.	99667.	107503.	111437.	106793.	109481.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 RWE)
 COST SUMMARY

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	2609.	2609.	2609.	1824.	54.	54.	54.	54.	71062.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	52865.
SUBTOTAL	\$*1,000	2609.	2609.	2609.	1824.	54.	54.	54.	54.	123927.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	75728.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	13777.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	89505.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	89135.	84001.	59526.	26230.	0.	0.	0.	0.	2142704.
CAPITAL COST	\$*1,000	7450.	16367.	4829.	0.	0.	0.	0.	0.	936539.
SUBTOTAL	\$*1,000	96585.	100369.	64354.	26230.	0.	0.	0.	0.	3079243.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	6863.	7106.	7724.	8117.	8554.	8381.	8282.	8070.	180756.
CAPITAL COST	\$*1,000	513.	517.	561.	578.	480.	573.	568.	562.	74579.
SUBTOTAL	\$*1,000	7376.	7622.	8284.	8695.	9034.	8954.	8851.	8632.	255334.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	11611.	11611.	11611.	11611.	1554.	1554.	1554.	1554.	327436.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	11611.	11611.	11611.	11611.	1554.	1554.	1554.	1554.	327436.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	110217.	105327.	81470.	47782.	10162.	9990.	9891.	9679.	2797685.
TOTAL CAPITAL COST	\$*1,000	7963.	16884.	5389.	578.	480.	573.	568.	562.	1077759.
TOTAL COST	\$*1,000	118181.	122211.	86859.	48360.	10642.	10563.	10459.	10240.	3875445.

ALBERTA DEPARTMENT OF THE ENVIRONMENT
 ORE BODY NO.1 ENHANCED LEVEL (6 BWE)
 PRESENT VALUE SUMMARY FOR INTEREST RATE OF 10.00%

TECHMAN LTD. — RHEINBRAUN-Consulting GmbH

	YEAR	-5	-4	-3	-2	-1	1	2	3	4
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	0.	0.	0.	880.	1558.	1473.	1339.	1217.	1106.
CAPITAL COST	\$*1,000	0.	9463.	17606.	10233.	0.	1693.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	9463.	17606.	11113.	1558.	3166.	1339.	1217.	1106.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	2618.	674.	3933.	684.	952.	3805.	3468.	2436.	2046.
CAPITAL COST	\$*1,000	430.	112.	714.	108.	165.	697.	641.	446.	375.
SUBTOTAL	\$*1,000	3048.	786.	4646.	792.	1117.	4502.	4110.	2882.	2421.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	0.	0.	0.	7837.	13688.	25845.	39687.	37239.	35642.
CAPITAL COST	\$*1,000	41303.	62979.	79048.	92940.	47374.	154980.	7063.	0.	11133.
SUBTOTAL	\$*1,000	41303.	62979.	79048.	100777.	61062.	180825.	46750.	37239.	46774.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	1720.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	3340.	6059.	5509.	8159.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	3340.	6059.	5509.	9879.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	554.	984.	2203.	3985.	5443.	6554.	5958.	5417.	4924.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	554.	984.	2203.	3985.	5443.	6554.	5958.	5417.	4924.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	3172.	1658.	6135.	13386.	21642.	37677.	50452.	46308.	45439.
TOTAL CAPITAL COST	\$*1,000	41733.	72554.	97368.	103280.	47539.	160711.	13763.	5955.	19666.
TOTAL COST	\$*1,000	44905.	74212.	103503.	116666.	69180.	198388.	64215.	52264.	65105.

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	YEAR	5	6	7	8	9	10	11	12	13
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	1006.	914.	831.	756.	687.	625.	568.	516.	469.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	1006.	914.	831.	756.	687.	625.	568.	516.	469.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	1122.	956.	654.	575.	1720.	1464.	1422.	1283.	582.
CAPITAL COST	\$*1,000	203.	173.	117.	104.	317.	270.	264.	240.	108.
SUBTOTAL	\$*1,000	1325.	1129.	770.	679.	2037.	1733.	1685.	1522.	691.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	32463.	30551.	29563.	27249.	24427.	22309.	20065.	18269.	15695.
CAPITAL COST	\$*1,000	6684.	7726.	12711.	6130.	3947.	2047.	0.	0.	173.
SUBTOTAL	\$*1,000	39147.	38277.	42274.	33379.	28374.	24356.	20065.	18269.	15867.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	1589.	1685.	1555.	1640.	1615.	1582.	1333.	1267.	1237.
CAPITAL COST	\$*1,000	146.	4551.	137.	150.	138.	95.	128.	104.	71.
SUBTOTAL	\$*1,000	1736.	6236.	1693.	1790.	1754.	1676.	1460.	1371.	1308.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	4477.	4070.	3700.	3363.	3058.	2780.	2527.	2297.	2088.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	4477.	4070.	3700.	3363.	3058.	2780.	2527.	2297.	2088.
COST CENTRE SUMMARY										
TOTAL OPERATING COST	\$*1,000	40657.	38176.	36303.	33582.	31507.	28758.	25914.	23632.	20071.
TOTAL CAPITAL COST	\$*1,000	7033.	12449.	12965.	6384.	4402.	2411.	391.	344.	352.
TOTAL COST	\$*1,000	47690.	50625.	49267.	39967.	35909.	31169.	26305.	23976.	20424.

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		YEAR	14	15	16	17	18	19	20	21	22
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES											
OPERATING COST	\$*1,000		427.	388.	353.	321.	291.	265.	241.	219.	199.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		427.	388.	353.	321.	291.	265.	241.	219.	199.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS											
OPERATING COST	\$*1,000		148.	47.	19.	19.	20.	20.	23.	0.	0.
CAPITAL COST	\$*1,000		27.	8.	3.	3.	3.	3.	4.	0.	0.
SUBTOTAL	\$*1,000		175.	56.	22.	22.	23.	23.	27.	0.	0.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING											
OPERATING COST	\$*1,000		14026.	12704.	11364.	9685.	8698.	8135.	7673.	7086.	6678.
CAPITAL COST	\$*1,000		1397.	1127.	0.	0.	0.	564.	602.	81.	0.
SUBTOTAL	\$*1,000		15423.	13831.	11364.	9685.	8698.	8699.	8275.	7167.	6678.
COST CENTRE 4: TAILINGS DISPOSAL											
OPERATING COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES											
OPERATING COST	\$*1,000		1183.	1117.	863.	809.	763.	695.	623.	557.	549.
CAPITAL COST	\$*1,000		88.	81.	70.	64.	58.	53.	48.	43.	40.
SUBTOTAL	\$*1,000		1271.	1198.	932.	873.	821.	748.	670.	600.	589.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES											
OPERATING COST	\$*1,000		1898.	1726.	1569.	1426.	1297.	1179.	1072.	974.	886.
CAPITAL COST	\$*1,000		0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000		1898.	1726.	1569.	1426.	1297.	1179.	1072.	974.	886.
COST CENTRE SUMMARY											
TOTAL OPERATING COST	\$*1,000		17682.	15982.	14167.	12260.	11069.	10294.	9632.	8837.	8311.
TOTAL CAPITAL COST	\$*1,000		1512.	1216.	73.	67.	62.	621.	653.	124.	40.
TOTAL COST	\$*1,000		19194.	17199.	14240.	12327.	11131.	10914.	10285.	8961.	8351.

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	YEAR	23	24	25	26	27	28	29	30	TOTALS
COST CENTRE 1: CIVIL CONSTRUCTION-TYPE ACTIVITIES										
OPERATING COST	\$*1,000	181.	164.	150.	95.	3.	2.	2.	2.	17246.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	38995.
SUBTOTAL	\$*1,000	181.	164.	150.	95.	3.	2.	2.	2.	56241.
COST CENTRE 2: REMOVAL OF ORGANIC MATERIALS & SOILS										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	30689.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	5534.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	36223.
COST CENTRE 3: OVERBURDEN, REJECT & OILSANDS HANDLING										
OPERATING COST	\$*1,000	6181.	5295.	3411.	1367.	0.	0.	0.	0.	482831.
CAPITAL COST	\$*1,000	517.	1032.	277.	0.	0.	0.	0.	0.	541832.
SUBTOTAL	\$*1,000	6698.	6327.	3688.	1367.	0.	0.	0.	0.	1024663.
COST CENTRE 4: TAILINGS DISPOSAL										
OPERATING COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COST CENTRE 5: ESTABLISHMENT OF ULTIMATE LAND USE RESOURCES										
OPERATING COST	\$*1,000	476.	448.	443.	423.	405.	361.	324.	287.	25549.
CAPITAL COST	\$*1,000	36.	33.	32.	30.	23.	25.	22.	20.	29351.
SUBTOTAL	\$*1,000	511.	481.	475.	453.	428.	386.	346.	307.	54901.
COST CENTRE 6: SUPERVISION & TECHNICAL SERVICES										
OPERATING COST	\$*1,000	805.	732.	665.	605.	74.	67.	61.	55.	79472.
CAPITAL COST	\$*1,000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBTOTAL	\$*1,000	805.	732.	665.	605.	74.	67.	61.	55.	79472.
TOTAL COSTS										
TOTAL OPERATING COST	\$*1,000	7643.	6640.	4669.	2489.	481.	430.	387.	344.	635787.
TOTAL CAPITAL COST	\$*1,000	552.	1064.	309.	30.	23.	25.	22.	20.	615713.
TOTAL COST	\$*1,000	8195.	7704.	4978.	2520.	504.	455.	409.	364.	1251500.

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