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TASER MINES LIMITED
ASSESSMENT REPORT

MARC 1 TO MARC 6 AND
PIS 1 TO PIS 3 PLACER CLAIMS

Fish Lake Property Clinton Mining Division

HTS 92 0/5E
Latitude $51^{\circ} 27 \prime N$, Longitude $123^{\circ} 36^{\prime}$
GEOLOGICALBRANCH ASSESSMENT REPORT


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December 16, 1991

Taseko Mines Limited
Owner/Operator of Marc 1-6 and FIS 1-3 Placer claims

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### 1.0 SUMMARY AND CONCLUSIONS

During the period of August 1 to October 15, 1991, Taseko Mines Limited conducted an exploration drill program on the Fish Lake property. In total, ten holes were drilled on the FIS 1, FIS 2 and Marc 3 placer claims: 3 holes were drilled on the FIS 1 claim, 2 holes on the FIS 2 claim and 5 holes on the MARC 3 claim. A cumulative length of 228.29 meters of overburden was drilled in the ten 1991 diamond drill holes.

The overburden material intersected in the 1991 diamond drill holes is composed mainly of clay, gravel, cobbles and boulders. The origin of this material is most likely glacio-fluvial as Fish Lake is located at the southernmost limit of the late advance of glaciers from the Coast Mountains (Tipper, 1971).

Data from the 1991 and previous exploration drilling programs indicate that the average overburden thickness covering the deposit, or grid, area (from 9800 to 10800 North and 9600 to 10600 East) of the Fish Lake property is 31.4 meters. The thickness of the surficial sediment package ranges from 1 to 107 meters, generally increasing toward the southwestern corner of the deposit area.

The thickness of the overburden sediment package in the deposit area of the Fish Lake property reflects the relief of the underlying bedrock surface in an inverse fashion; that is, the overburden cover thins over bedrock highs. Conversely, low-lying or depressed areas in the bedrock surface have been filled by surficial materials, thus the overburden cover is thickest at these
locales. The greatest thickness of surficial material in the deposit area overlies a prominent, northwest trending 100-200 meter wide depression or trough in the bedrock.

Bedrock surface elevations in the drill holes within the deposit area of the Fish Lake property range from 1430 to 1495 meters and average 1464 meters.

The average overburden drilling cost was $\$ 78.00 /$ meter.

The Fish Lake property, located in south central B.C. (Figure 1), contains a large tonnage gold-copper mineralized porphyry system known as the Fish Lake or Taseko deposit. The property consists of 185 mineral claims encompassing an area of 10,825 hectares, or 108 square kilometers. Taseko Mines Limited conducted a drilling program on the FIS $1 \& 2$ and Marc 3 placer claims from August to mid October of 1991. A total of 228.29 meters of surficial material (overburden) was intersected in ten diamond drill holes during this exploration effort on the Fish Lake property.

This report describes the results of the 1991 overburden drilling program and has been written to conform with Assessment Report regulations and Section $C$ of the Mineral Tenure Act Regulation. All geological data presented here pertain to the glacio-fluvial sediments overlying bedrock at the deposit site. Drill data collected from the 1991 exploration program as well as from previous drilling programs (1981, 1982 and 1984) has made it possible to characterize the overburden sediments in terms of their composition and thickness. The isopach contour map presented here illustrates the variation in overburden thickness over the deposit area.

Information regarding the quantity and type of sediments overlying the deposit area will become increasingly important as engineering and development of the Fish Lake deposit takes place.

### 3.0 LOCATION AND ACCESS

The Fish Lake property is located 250 kilometers north of Vancouver, or approximately 130 km SW of the city of Williams Lake, in the Clinton Mining Division (Figure 1). Locally, the property is in the Fish Creek valley, approximately one kilometer north of Fish Lake (Figure 2), and about ten kilometers north of the northern end of Taseko Lake.

The Fish Lake property is situated on the Chilcotin plateau and approximately 35 kilometers from the Coast Range. Topography in the area is subdued and elevations range from 1400 to 1600 meters above sea level. Outcrop is scarce on the property because overburden, which can be up to 60 m thick, covers the bedrock.

Access to the claims is via the Bella Coola Highway (Highway No. 20) to Lee's Corners at Hanceville, roughly 100 kilometers west of Williams Lake, then southwest along a government maintained gravel road that leads to Taseko Lake. This road travels across the Chilcotin River, through the Chilco Ranch and the Stoney Creek Indian Reserve and west to the Whitewater Bridge over the Taseko River. From the bridge, a gravel road goes southward along the east side of the river and at about 10 kilometers distance another branch road leads six kilometers eastward to the property and Fish Lake (Figure 2). Total road distance from Williams Lake is 192 kilometers and the travelling time by road is 2.5 hours.



### 4.0 CLAIM STATUS

Taseko Mines Limited controls a $100 \%$ interest (subject to certain agreements with cominco and Cascade Investments Joint Venture) in 185 mineral claims in addition to nine placer claims (Figure 3) that have been staked over the deposit area. Pertinent placer claim information is outlined in Table I. The expiry dates indicated in Table I (rightmost column) are those expected once the exploration work and costs stated in this report are accepted for assessment credit.

TABLE 1

## Placer Claim Information Fish Lake Property

| PLACER | RECORD NUMBER |  | RECORD DATE | EXPIRY DATE |
| :---: | :---: | :---: | :---: | :---: |
| FIS 1 | PC 27 | 266423 | $28 / 04 / 89$ | $28 / 04 / 2001$ |
| FIS 2 | PC 28 | 266424 | $28 / 04 / 89$ | $28 / 04 / 2001$ |
| FIS 3 | PC 29 | 266425 | $28 / 04 / 89$ | $28 / 04 / 2001$ |
| MARC 1 | PC 63 | 266459 | $20 / 01 / 91$ | $20 / 01 / 1997$ |
| MARC 2 | PC 64 | 266460 | $20 / 01 / 91$ | $20 / 01 / 1997$ |
| MARC 3 | PC 65 | 266461 | $20 / 01 / 91$ | $20 / 01 / 1997$ |
| MARC 4 | PC 66 | 266462 | $20 / 01 / 91$ | $20 / 01 / 1997$ |
| MARC 5 | PC 67 | 266463 | $20 / 01 / 91$ | $20 / 10 / 1997$ |
| MARC 6 | PC 68 | 266464 | $20 / 01 / 91$ | $20 / 01 / 1997$ |



### 5.0 PROPERTY HISTORY

A portion of the Fish Lake area was first staked in the 1930's by C.M. Vick and associates based on elevated gold values attained. Phelps Dodge Corporation relocated the claims in 1960 and conducted an exploration program that discovered the Fish Lake deposit. Phelps Dodge allowed the project claims to lapse and the ground was staked by Taseko Mines Limited in 1966. A variety of mining companies have since directed exploration programs in the deposit area, including Quintana Minerals, Nittetsu Mining Company, Bethlehem and Cominco Ltd.

Cominco Ltd. has had an option on the Fish Lake claims since 1979 and has conducted a series of exploration programs on the property, including grid establishment; ground magnetometer VLF-EM and induced polarization surveys; soil geochemistry; percussion and diamond drilling.

Exploration work completed to date on the Fish Lake deposit includes 50 line kilometers of Induced Polarization, magnetic and soil geochemistry surveys and over 33,642 meters of diamond drilling in 200 holes.

Taseko Mines Limited is the current owner and operator of the Fish Lake project claims subject to certain agreements with Cominco Ltd.

### 6.0 SUMMARY OF 1991 EXPLORATION PROGRAM

The most recent exploration effort conducted on the Fish Lake property by Taseko Mines Limited is a diamond drilling program that produced 7506 meters of both NQ and HQ sized drill core. This took place from August 1 to October 15 of 1991, under field supervision by geologist N. Caira and project supervision by J.P. Franzen, P. Eng. The program was carried out using two Longyear 44 diamond drill rigs supplied by Quest Canada Drilling Inc. and a crew consisting of two geologists, three assistants, four diamond drillers, four drill helpers and three support staff. The 1991 drill program concentrated on the 'deposit area' of the Fish Lake property, which extends from grid lines 9800 to 10800 North and from 9600 to 10800 East (Figure 4). The ten 1991 Fish Lake drill holes, which define a 'cross' pattern in plan view, tested the deposit over a north-south distance of 550 meters, an east-west distance of 500 meters and an average thickness of 769 meters. All 1991 drill holes were collared at a vertical angle (-90 ${ }^{\circ}$ ). The grid location and collar elevation of the 1991 Fish Lake drill holes are shown in Table II, along with the length of overburden intersected and the costs incurred in drilling this portion of each drill hole in the program.

The location of the 1991 diamond drill holes relative to the placer claim boundaries is shown in Figure 5 (in back pocket). This map also indicates the location of the 1991 exploration camp, the drill core storage location and the drill roads.


TABLE II

1991 Drilling Program Information Fish Lake Property

| Hole No. | Placer <br> Claim | Collar <br> Elev.m | Northing | Easting | Overburden <br> Thickness <br> (m) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $91-01$ | MARC 3 | 1481.0 | 10100 | 10405 | 9.75 |
| $91-02$ | MARC 3 | 1467.0 | 10101 | 10299 | 7.62 |
| $91-03$ | FIS 2 | 1460.9 | 9900 | 10300 | 43.89 |
| $91-04$ | MARC 3 | 1473.0 | 10200 | 10300 | 12.19 |
| $91-05$ | FIS 2 | 1449.0 | 10095 | 10200 | 19.20 |
| $91-06$ | MARC 3 | 1493.0 | 10100 | 10500 | 10.67 |
| $91-07$ | MARC 3 | 1474.0 | 10301 | 10300 | 15.24 |
| $91-08$ | FIS 1 | 1461.0 | 9820 | 10300 | 57.91 |
| $91-09$ | FIS 2 | 1443.6 | 10096 | 10105 | 51.82 |
| $91-10$ | FIS 1 | 1461.0 | 9823 | 10300 | 57.91 |

### 7.0 SURFICIAL DEPOSITS

A total of 228.29 meters of overburden was intersected in ten diamond drill holes during the 1991 exploration program on the Fish Lake property. Clay, gravel, cobbles and some boulders (reaching sizes of 25 cm across) make up most of these surficial sedimentary deposits. The origin of these materials is likely glacio-fluvial as the Fish Lake area is the southernmost limit of the late advance of an ice lobe or valley glacier from the Coast Mountains, according to the Taseko Lakes region surficial geology map compiled by Tipper (1971).

Abbreviated logs describing the overburden materials in each drill hole were compiled at site as the drillers tricone drilled through the surficial deposits. These logs are presented in Appendix I of this assessment report.

A report compiled in 1973 (Taseko Mines Progress Report, 1973), and corroborated by the observations made in this 1991 exploration program, describes the overburden section encountered in trenches dug to the NW and NE of the deposit area as follows:

* Bedrock is immediately overlain by a 1 to 3 meter thick boulder-rich basal till.
* Overlying the basal till is less than 1 meter of breccia with fragments of local origin.
* The breccia unit is overlain by glacial and glaciofluvial clay, sand and gravel deposits.
* The uppermost glacial unit is considered to be a 'till' and
is said to be exposed over much of the deposit area.
* Locally, this till unit is overlain by eskers and gravel deposits.

Information from the 1991 drill program, in conjunction with data from earlier drilling efforts, has made it possible to interpret the configuration of the overburden package overlying bedrock in the deposit area of the Fish Lake property. Tables in Appendix II indicate the depth of overburden in all 96 holes drilled in this area.

Figure 6 (in back pocket) is an overburden isopach map that illustrates the variation in overburden thickness in the deposit area of the Fish Lake property. The thickness of the surficial dediment cover is contoured at 10 meter intervals and ranges from one to 107 meters, averaging 31.4 meters.

The northeastern half of the deposit area is generally characterized by an overburden cover in the $<10$ to 20 meter range. The overburden cover thickens greatly in the center of this area and it forms a northwest trending wedge of $60-80$ meter thickness. A localized high of 107.3 meter overburden thickness occurs at the southern end of this elongated overburden wedge (in ddh FL 81-30).

A bedrock surface relief map (Figure 7, in back pocket) shows the variation in elevation of the top surface of the bedrock underlying the Fish Lake property. The bedrock relief illustrated in this map reflects a dominant northwest trending fabric. Elevations are contoured at 10 meter intervals and they range from

1437 to 1494 meters, with an average elevation of 1463.6 meters for the deposit area.

The bedrock surface slopes gently downward from the northeast corner of the deposit area and steepens in the center toward a northwest trending depression or trough that crosses the property. This depression in the bedrock is characterized by elevations in the 1390 to 1410 meter range. The southern end of this prominent depression in bedrock drops to an elevation of 1370 meters in the deposit area. To the west of the depression, bedrock rises steeply again to elevations > 1450 meters. Tipper (1971) has interpreted this ridge in the western portion of the property to be a drumlin, with its long axis trending to the northwest.

The overburden cover in the deposit area reflects the underlying bedrock topography in that it thickens over areas of lower bedrock relief. For example, a thickened overburden sequence in the northeastern corner of the property (the bullseye pattern centered at $10600 \mathrm{E}, 10300 \mathrm{~N}$ ) fills a depression in the bedrock below. Likewise, the overburden cover generally thickens as bedrock relief deepens toward the center of the deposit area. Another example is the prominent NW trending 100-200 meter wide depression in bedrock that deepens to the south and is covered by a corresponding thickened overburden sequence.

### 8.0 RECOMMENDATIONS

The following efforts are recommended for future work on the overburden materials at the Fish Lake property:
a) Update the overburden isopach and bedrock surface relief contour maps as drilling on the property proceeds.
b) Continue to log overburden materials intersected in future diamond drill holes.
c) Conduct geotechnical drilling and logging of overburden from potential locations for mill site and waste dumps.

### 9.0 REFERENCES

Pauwels, A.M., 1981, Owner's Report, Diamond Drilling, Geological, Geophysical and Geochemical Report on the Fish Lake Property, Clinton Mining Division. In-house company report by Cominco Ltd.

Pauwels, A.M., 1982, Owner's Report, Percussion Drilling, Diamond Drilling and Geochemical and Geophysical Survey on the Fish Lake Property, Clinton Mining Division. In-house company report by Cominco Ltd.

Tipper, H.W., 1971, Surficial Geology Map of the Taseko Lakes Region (to accompany GSC Bulletin 196), Map 1292A, 1:250,000, Geological Survey of Canada.

Work Progress Report, 1973, In-house company report by Taseko Mines Limited.

APPENDIX I

## APPENDIX I

## OVERBURDEN DRILL LOGS

| DDH | OVERBURDEN |  |
| :---: | :---: | :---: |
|  | DRILLED (m) | MATERIAL |
| 91-01 | 0.00-2.13 | Soil, pebbles and cobbles |
|  | $2.13-8.23$ | Gravel, cobbles, clay |
|  | 8.23-9.75 | Broken bedrock |
| 91-02 | 0.00-3.05 | Cobbles, gray clay |
|  | 3.05-6.10 | Cobbles, clay |
|  | 6.10-7.67 | Clay, bedrock |
| 91-03 | 0.00-2.13 | Soil |
|  | 2.13-6.10 | Soil, gravel |
|  | $6.10-10.43$ | Clay, gravel |
|  | 10.43-14.30 | Clay, gravel |
|  | 14.30-17.80 | Cobbles |
|  | 17.80-21.30 | Clay, cobbles |
|  | 21.30-25.65 | Cobbles |
|  | 25.65-30.40 | Clay, cobbles |
|  | 30.40-36.35 | Clay, boulders |
|  | $36.35-39.24$ | Clay, boulders |
|  | 39.24-43.89 | Boulders, bedrock |
| 91-04 | 0.00-1.83 | Gravel |
|  | 1.83-4.88 | Gravel |
|  | 4.88-7.92 | Gravel, clay |
|  | $7.92-10.97$ | Gravel, clay |
| 91-05 | 0.00-2.13 | Soil |
|  | $2.13-5.20$ | Soil, cobbles |
|  | $5.20-8.20$ | Clay, cobbles |
|  | 8.20-11.30 | Clay, cobbles |
|  | 11.30-14.30 | Clay, boulders |
|  | 14.30-17.40 | Cobbles |
|  | 17.40-18.29 | Hardpan (clay), subcrop |
|  | 18.29-19.20 | Bedrock |
| 91-06 | 0.00-1.83 | Gravel |
|  | 1.83-4.88 | Gravel |
|  | $4.88-9.45$ | Gravel, clay, pebbles |
|  | 9.45-10.67 | Bedrock |

## APPENDIX I

## OVERBURDEN DRILL LOGS

 (cont'd)
## OVERBURDEN

$\underline{\mathrm{DDH}}$
DRILLED (m)

## MATERIAL

91-07 $0.00-2.13$ Soil, cobbles 2.13-5.18 Clay
5.18-8.20 Gray clay, cobbles
8.20-11.28 Clay
11.28-14.30 Clay
14.30-15.24 Bedrock

91-08

$$
\begin{array}{ll}
0.00-1.83 & \text { Gravel } \\
1.83-4.88 & \text { Silt, gravel } \\
4.88-10.97 & \text { Silt }
\end{array}
$$

$$
10.97-17.07 \quad \text { Gravel }
$$

$$
17.07 \text { - } 20.12 \quad \text { Clay, gravel }
$$

$$
20.12 \text { - } 23.16 \text { Clay, gravel, cobbles }
$$

$$
23.16-26.21 \quad \text { Clay, gravel }
$$

$$
26.21-29.26 \quad \text { Clay }
$$

$$
29.26-38.40 \quad \text { Clay, gravel }
$$

$$
38.40-44.50 \quad \text { Gravel }
$$

$$
44.50-50.60 \quad \text { Clay, cobbles }
$$

$$
50.60-56.69 \quad \text { Clay, gravel }
$$

| $0.00-4.57$ |  |
| ---: | :--- |
| $4.57-7.62$ | Gravel, cobbles |
| $7.62-10.67$ | Gray clay clay |
| $10.67-13.72$ | Clay, cobbles |
| $13.27-16.76$ | Clay, cobbles |
| $16.76-19.81$ | Gray hardpan (clay) |
| $19.81-22.86$ | Black hardpan (clay) |
| $22.86-25.91$ | Black clay |
| $25.91-28.96$ | Clay, cobbles |
| $28.96-32.00$ | Till, |
| $32.00-35.05$ | Clay, till |
| $35.05-38.10$ | Till, cobbles |
| $38.10-41.15$ | Till, cobbles |
| $41.15-44.20$ | Till, cobbles |
| $44.20-47.24$ | Till, clay |
| $47.24-50.29$ | Clay, cobbles |
| $50.29-51.82$ | Bedrock |

## APPENDIX II

TASEKO MINES LIMITED
 * * * FISH LAKE GOLD - COPPER PROJECT


1991 DIAMOND DRILLHOLE PROGRAM SURVEY DATABASE

| DRILLHOLE NUMBER | EASTING | NORTHING | elevation <br> ( m ) | $\begin{aligned} & \text { DEPTH } \\ & (\mathrm{m}) \end{aligned}$ | AZIMUTH <br> (Deg. ) | $\begin{gathered} \text { DIP } \\ \text { (Deg. ) } \end{gathered}$ | $\begin{aligned} & \text { LENGTH } \\ & (\mathrm{m}) \end{aligned}$ | $\begin{gathered} 0 / B \\ (\mathrm{~m}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 91-1 | 10405.00 | 10100.00 | 1481.00 | 0.00 | 0.00 | -90.00 | 837.29 | 9.75 |
|  |  |  |  | 11.27 | 33.00 | -88.50 |  |  |
|  |  |  |  | 154.53 | 117.00 | -89.00 |  |  |
|  |  |  |  | 306.93 | 216.00 | -89.00 |  |  |
|  |  |  |  | 373.99 | 213.00 | -89.30 |  |  |
|  |  |  |  | 532.49 | 215.00 | -89.00 |  |  |
|  |  |  |  | 687.93 | 204.00 | -89.00 |  |  |
|  |  |  |  | 837.29 | 244.00 | -88.70 |  |  |
| 91-2 | 10299.20 | 10100.40 | 1467.00 | 0.00 | 0.00 | -90.00 | 826.92 | 7.62 |
|  |  |  |  | 7.60 | 93.00 | -89.00 |  |  |
|  |  |  |  | 152.40 | 209.00 | -89.50 |  |  |
|  |  |  |  | 304.80 | 280.00 | -89.50 |  |  |
|  |  |  |  | 374.90 | 233.00 | -89.20 |  |  |
|  |  |  |  | 457.20 | 230.00 | -89.00 |  |  |
|  |  |  |  | 609.76 | 245.00 | -88.70 |  |  |
|  |  |  |  | 762.19 | 258.00 | -89.00 |  |  |
| 91.3 | 10300.00 | 9900.00 | 1460.90 | 0.00 | 0.00 | -90.00 | 822.04 | 43.89 |
|  |  |  |  | 20.42 | 243.00 | -89.00 |  |  |
|  |  |  |  | 154.50 | 283.00 | -88.20 |  |  |
|  |  |  |  | 306.93 | 273.00 | -87.90 |  |  |
|  |  |  |  | 358.75 | 273.00 | -87.80 |  |  |
|  |  |  |  | 457.20 | 284.00 | -87.90 |  |  |
|  |  |  |  | 611.73 | 277.00 | -87.20 |  |  |
|  |  |  |  | 764.13 | 273.00 | -87.20 |  |  |
| 91-4 | 10300.00 | 10200.00 | 1473.00 | 0.00 | 0.00 | -90.00 | 817.78 | 12.19 |
|  |  |  |  | 14.30 | 40.00 | -89.70 |  |  |
|  |  |  |  | 154.53 | 267.00 | -89.90 |  |  |
|  |  |  |  | 304.80 | 307.00 | -89.80 |  |  |
|  |  |  |  | 365.76 | 0.00 | -89.80 |  |  |
|  |  |  |  | 459.33 | 273.00 | -89.50 |  |  |
|  |  |  |  | 611.70 | 225.00 | -89.50 |  |  |
|  |  |  |  | 764.13 | 250.00 | -88.80 |  |  |
| 91-5 | 10200.00 | 10100.00 | 1449.00 | 0.00 | 0.00 | -90.00 | 764.13 | 19.20 |
|  |  |  |  | 35.05 | 272.00 | -88.10 |  |  |
|  |  |  |  | 152.40 | 298.00 | -87.50 |  |  |
|  |  |  |  | 304.80 | 298.00 | -87.80 |  |  |
|  |  |  |  | 350.52 | 295.00 | -87.80 |  |  |
|  |  |  |  | 457.20 | 300.00 | -88.10 |  |  |
|  |  |  |  | 609.90 | 319.00 | -88.00 |  |  |
|  |  |  |  | 762.00 | 321.00 | -87.00 |  |  |
| 91-6 | 10500.00 | 10100.00 | 1492.00 | 0.00 | 0.00 | -90.00 | 801.93 | 10.67 |
|  |  |  | . | 17.07 | 30.00 | -89.30 |  |  |
|  |  |  |  | 154.43 | 320.00 | -89.10 |  |  |
|  |  |  |  | 306.93 | 323.00 | -88.60 |  |  |



TASEKO MINES LIMITED

*     *         * FISH LaKE GOLD - COPPER PROJECT * * *

PRE 1991 DIAMOND DRILLHOLE PROGRAM
SURVEY DATABASE

| DRILLHOLE NUMBER | easting | NORTHING | elevation ( m ) | $\begin{aligned} & \text { DEPTH } \\ & (\mathrm{m}) \end{aligned}$ | AZIMUTH <br> ( Deg. ) | $\begin{aligned} & \text { DIP } \\ & \text { (Deg.) } \end{aligned}$ | $\begin{aligned} & \text { LENGTH } \\ & (\mathrm{m}) \end{aligned}$ | $\begin{gathered} 0 / 8 \\ (\mathrm{~m}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PC82-4 | 9700.00 | 10600.00 | 1440.00 | 0.00 | 0.00 | -90.00 | 91.50 | 22.80 |
| PC82-15 | 9767.00 | 10065.00 | 1470.00 | 0.00 | 0.00 | -90.00 | 91.50 | 14.03 |
| Q73-2 | 9815.90 | 10204.50 | 1445.70 | 0.00 | 0.00 | -90.00 | 130.50 | 36.60 |
| Q73-8 | 9827.30 | 10426.90 | 1438.20 | 0.00 | 0.00 | -90.00 | 213.40 | 38.10 |
| F84-5 | 9850.00 | 10000.00 | 1462.00 | 0.00 | 90.00 | -55.50 | 203.10 | 22.50 |
| FL81-13 | 9899.40 | 10049.30 | 1448.50 | 0.00 | 5.00 | -62.00 | 352.70 | 33.50 |
| PC82-3 | 9900.00 | 10600.00 | 1453.00 | 0.00 | 0.00 | -90.00 | 91.50 | 23.48 |
| PC82-14 | 9900.00 | 10300.00 | 1441.00 | 0.00 | 0.00 | -90.00 | 45.75 | 45.75 |
| FL81-12 | 9900.90 | 9898.50 | 1464.50 | 0.00 | 303.00 | -88.00 | 322.20 | 18.30 |
| 073-11 | 9925.00 | 10003.30 | 1447.60 | 0.00 | 0.00 | -90.00 | 366.40 | 41.80 |
| Q73-1 | 10000.00 | 10000.00 | 1445.70 | 0.00 | 0.00 | -90.00 | 182.90 | 50.60 |
| FL81-10 | 10000.70 | 9871.90 | 1448.10 | 0.00 | 0.00 | -60.00 | 352.70 | 54.90 |
| F84.4 | 10006.00 | 10000.00 | 1446.00 | 0.00 | 90.00 | -51.50 | 199.50 | 71.00 |
| T72-1 | 10015.80 | 9830.40 | 1437.40 | 0.00 | 0.00 | -90.00 | 80.20 | 36.60 |
| 074-3 | 10021.10 | 10078.20 | 1443.30 | 0.00 | 0.00 | -90.00 | 152.40 | 61.30 |
| Q81-13 | 10037.10 | 10329.40 | 1446.90 | 0.00 | 0.00 | . 90.00 | 306.60 | 15.80 |
| 073-13 | 10037.10 | 10329.40 | 1446.90 | 0.00 | 0.00 | -90.00 | 123.70 | 26.50 |
| 073.6 | 10063.10 | 9718.60 | 1440.70 | 0.00 | 0.00 | -45.00 | 243.80 | 56.70 |
| PH69-1 | 10070.60 | 10461.30 | 1449.10 | 0.00 | 0.00 | -90.00 | 82.30 | 12.10 |
| FL81-8 | 10099.40 | 10301.20 | 1451.00 | 0.00 | 11.00 | -62.00 | 352.40 | 30.50 |
|  |  |  |  | 39.63 | 11.00 | -62.00 |  |  |
|  |  |  |  | 182.93 | 355.00 | -62.50 |  |  |
|  |  |  |  | 341.46 | 3.00 | -63.50 |  |  |
| PC82-1 | 10100.00 | 10600.00 | 1475.00 | 0.00 | 0.00 | -90.00 | 91.50 | 7.90 |
| FL81-17 | 10100.10 | 10096.20 | 1443.60 | 0.00 | 0.00 | -60.00 | 157.30 | 51.80 |
| FL81-18 | 10100.40 | 9801.60 | 1466.80 | 0.00 | 1.00 | -64.00 | 352.70 | 82.30 |
|  |  |  |  | 91.44 | 1.00 | -64.00 |  |  |
|  |  |  |  | 213.36 | 359.00 | -64.50 |  |  |
|  |  |  |  | 347.47 | 358.00 | -66.00 |  |  |
| Q81-12 | 10133.90 | 10022.00 | 1445.90 | 0.00 | 336.50 | -88.00 | 305.40 | 55.60 |
| 073-12 | 10133.90 | 10022.00 | 1445.90 | 0.00 | 0.00 | -90.00 | 153.60 | 55.80 |
| F84-3 | 10137.00 | 10010.00 | 1446.00 | 0.00 | 90.00 | -50.50 | 200.00 | 61.00 |
| 074-2 | 10146.00 | 9939.20 | 1455.00 | 0.00 | 0.00 | . 90.00 | 209.10 | 70.10 |
| 081-2 | 10146.00 | 9939.20 | 1454.80 | 0.00 | 0.00 | -90.00 | 227.70 | 29.00 |
| T69-6 | 10147.50 | 10123.80 | 1444.70 | 0.00 | 0.00 | -60.00 | 195.10 | 32.90 |
| 074-1 | 10147.50 | 10123.80 | 1444.70 | 0.00 | 0.00 | -90.00 | 228.60 | 30.50 |
| 073.9 | 10158.00 | 10388.90 | 1454.00 | 0.00 | 0.00 | . 90.00 | 462.70 | 20.70 |
| N70-2 | 10172.00 | 10150.10 | 1453.60 | 0.00 | 0.00 | -90.00 | 61.00 | 24.10 |
| F89-1 | 10195.00 | 10395.00 | 1456.00 | 0.00 | 0.00 | . 90.00 | 158.20 | 14.94 |
| FL81-9 | 10198.70 | 10056.30 | 1446.90 | 0.00 | 0.00 | -60.00 | 352.70 | 33.50 |
| F89-2 | 10200.00 | 10300.00 | 1461.50 | 0.00 | 0.00 | -90.00 | 161.50 | 15.50 |
| F89.10 | 10200.00 | 10000.00 | 1448.00 | 0.00 | 0.00 | -90.00 | 152.13 | 49.00 |
| F89-6 | 10200.00 | 10095.00 | 1449.00 | 0.00 | 0.00 | -90.00 | 152.13 | 18.30 |
| F89-4 | 10200.00 | 10200.00 | 1461.30 | 0.00 | 0.00 | -90.00 | 158.23 | 21.00 |

TASEKO MINES LIMITED


*     *         * FISH LAKE GOLD - COPPER PROJECT * * *

PRE 1991 diamond drillhole program
survey database

| DRILLHOLE NUMBER | Easting | NORTHING | Elevation <br> ( m ) | $\begin{aligned} & \text { DEPTH } \\ & (m) \end{aligned}$ | AZIMUTK <br> ( Deg. ) | $\begin{gathered} \text { DIP } \\ \text { (Deg. ) } \end{gathered}$ | $\begin{aligned} & \text { LENGTH } \\ & (\mathrm{m}) \end{aligned}$ | $\begin{gathered} 0 / B \\ (\mathrm{~m}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FL81-16 | 10200.40 | 10420.10 | 1456.00 | 0.00 | 1.00 | -60.50 | 154.80 | 12.10 |
|  |  |  |  | 154.84 | 1.00 | -60.50 |  |  |
| FL81-15 | 10200.50 | 9779.70 | 1462.20 | 0.00 | 353.00 | -69.00 | 352.70 | 80.50 |
|  |  |  |  | 91.44 | 353.00 | -69.00 |  |  |
|  |  |  |  | 213.36 | 350.00 | -70.00 |  |  |
|  |  |  |  | 350.52 | 347.00 | -71.00 |  |  |
| FL81-6 | 10210.80 | 10201.90 | 1461.30 | 0.00 | 356.00 | -58.50 | 351.80 | 27.43 |
|  |  |  |  | 33.54 | 356.00 | -58.50 |  |  |
|  |  |  |  | 182.93 | 0.00 | -58.00 |  |  |
|  |  |  |  | 341.46 | 11.00 | -57.00 |  |  |
| N70-3 | 10212.60 | 9921.90 | 1455.40 | 0.00 | 0.00 | -90.00 | 52.70 | 52.70 |
| T69-5 | 10231.70 | 9973.10 | 1451.60 | 0.00 | 0.00 | -90.00 | 153.60 | 53.00 |
| PH69-2 | 10239.30 | 10451.70 | 1457.20 | 0.00 | 0.00 | -90.00 | 91.40 | 9.14 |
| PH69-8 | 10262.60 | 10107.70 | 1459.10 | 0.00 | 0.00 | -90.00 | 121.90 | 15.24 |
| Q73-14 | 10271.30 | 9835.60 | 1458.10 | 0.00 | 0.00 | -90.00 | 93.60 | 64.30 |
| Q81-14 | 10271.30 | 9835.60 | 1458.10 | 0.00 | 310.00 | -89.00 | 306.90 | 93.80 |
| 073-10 | 10283.00 | 10006.80 | 1454.00 | 0.00 | 0.00 | -90.00 | 438.90 | 20.70 |
| T69-4 | 10283.00 | 10006.80 | 1454.00 | 0.00 | 133.00 | -60.00 | 213.40 | 12.20 |
| T69-1 | 10283.00 | 10006.80 | 1454.00 | 0.00 | 313.00 | . 60.00 | 153.80 | 12.80 |
| F84-2 | 10285.00 | 10000.00 | 1454.00 | 0.00 | 90.00 | -50.00 | 200.00 | 15.20 |
| PH69-3 | 10296.50 | 10476.50 | 1463.00 | 0.00 | 0.00 | -90.00 | 91.40 | 7.90 |
| FL81-20 | 10296.80 | 9650.10 | 1463.60 | 0.00 | 0.00 | -62.00 | 352.60 | 71.30 |
|  |  |  |  | 91.44 | 0.00 | -62.00 |  |  |
|  |  |  |  | 213.36 | 3.00 | -63.50 |  |  |
|  |  |  |  | 350.52 | 5.00 | -64.50 |  |  |
| Q74-5 | 10298.10 | 10375.80 | 1465.90 | 0.00 | 0.00 | -90.00 | 163.10 | 18.30 |
| FL81-4 | 10299.20 | 10101.40 | 1467.00 | 0.00 | 355.00 | -58.00 | 352.00 | 12.20 |
|  |  |  |  | 97.50 | 355.00 | - 58.00 |  |  |
|  |  |  |  | 352.00 | 7.00 | -58.00 |  |  |
| FL81-14 | 10299.40 | 10421.30 | 1465.00 | 0.00 | 0.00 | -59.00 | 352.40 | 24.40 |
| F89.7 | 10300.00 | 10100.00 | 1467.00 | 0.00 | 0.00 | -90.00 | 164.33 | 6.10 |
| PC82. 2 | 10300.00 | 10600.00 | 1482.00 | 0.00 | 0.00 | -90.00 | 91.50 | 1.22 |
| F89.5 | 10300.00 | 10200.00 | 1473.00 | 0.00 | 0.00 | -90.00 | 170.43 | 12.19 |
| F89.3 | 10300.00 | 10301.00 | 1474.00 | 0.00 | 0.00 | . 90.00 | 177.00 | 12.63 |
| F89-12 | 10300.00 | 9900.00 | 1460.90 | 0.00 | 0.00 | -90.00 | 158.23 | 40.00 |
| FL81-9 | 10301.10 | 10202.60 | 1473.00 | 0.00 | 359.00 | -60.00 | 352.40 | 12.20 |
| N70-1 | 10319.10 | 10192.20 | 1472.80 | 0.00 | 0.00 | . 90.00 | 61.00 | 8.00 |
| 074.6 | 10328.10 | 9927.70 | 1461.20 | 0.00 | 0.00 | -90.00 | 244.10 | 36.90 |
| Q74-7 | 10348.70 | 10063.90 | 1471.90 | 0.00 | 0.00 | -90.00 | 242.90 | 9.10 |
| PH69-4 | 10373.70 | 10469.60 | 1465.20 | 0.00 | 0.00 | . 90.00 | 91.40 | 7.60 |
| FL81-23 | 10393.80 | 9798.10 | 1464.00 | 0.00 | 4.00 | -62.00 | 178.30 | 40.25 |
| PH69-9 | 10394.50 | 10046.40 | 1478.80 | 0.00 | 0.00 | -90.00 | 121.90 | 6.10 |
| F89-11 | 10400.00 | 10000.00 | 1474.00 | 0.00 | 0.00 | -90.00 | 176.52 | 7.00 |
| FL81-11 | 10400.80 | 10297.90 | 1486.00 | 0.00 | 4.00 | - 58.00 | 352.30 | 15.20 |

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TASEKD MINES LIMITED


-     * FISH LAKE GOLD - COPPER PROJECT * * *

PRE 1991 DIAMOND DRILLHOLE PROGRAM
SURVEY DATAbASE

| DRILLHOLE NUMBER | EASTING | NORTHING | ELEVATION <br> ( m ) | $\begin{aligned} & \text { DEPTH } \\ & \text { ( m ) } \end{aligned}$ | AZIMUTH <br> (Deg. ) | $\begin{gathered} \text { DIP } \\ \text { (Deg. ) } \end{gathered}$ | LENGTH <br> ( m ) | $\begin{gathered} 0 / B \\ (\mathrm{~m}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FL81-3 | 10402.70 | 9950.70 | 1464.30 | 0.00 | 2.00 | -58.00 | 352.70 | 15.62 |
|  |  |  |  | 30.49 | 2.00 | -58.00 |  |  |
|  |  |  |  | 182.93 | 356.00 | -61.00 |  |  |
|  |  |  |  | 347.56 | 2.00 | -62.00 |  |  |
| PH69-5 | 10403.00 | 9960.00 | 1455.00 | 0.00 | 0.00 | -90.00 | 92.00 | 9.10 |
| F89-8 | 10405.00 | 10100.00 | 1481.00 | 0.00 | 0.00 | -90.00 | 179.58 | 10.67 |
| 074-8 | 10414.00 | 10211.30 | 1487.10 | 0.00 | 0.00 | -90.00 | 122.50 | 12.50 |
| 081-8 | 10414.00 | 10211.30 | 1487.10 | 0.00 | 295.00 | -87.00 | 305.40 | 10.50 |
|  |  |  |  | 305.41 | 295.00 | -87.00 |  |  |
| Q73-15 | 10433.20 | 10001.40 | 1481.70 | 0.00 | 0.00 | -90.00 | 183.20 | 16.80 |
| F84-1 | 10440.00 | 10000.00 | 1482.00 | 0.00 | 90.00 | -50.00 | 200.00 | 9.10 |
| N70-4 | 10447.60 | 10272.20 | 1488.90 | 0.00 | 0.00 | -90.00 | 61.10 | 13.10 |
| 169.2 | 10492.00 | 9982.90 | 1475.70 | 0.00 | 315.00 | -45.00 | 183.80 | 3.00 |
| T69.3 | 10492.00 | 9982.90 | 1475.70 | 0.00 | 135.00 | -60.00 | 136.60 | 5.80 |
| FL81-24 | 10492.60 | 9798.40 | 1466.10 | 0.00 | 2.00 | -63.00 | 341.40 | 60.96 |
| PH69-6 | 10493.00 | 9995.00 | 1479.80 | 0.00 | 0.00 | -90.00 | 91.40 | 3.70 |
| 074.9 | 10494.90 | 10134.40 | 1493.10 | 0.00 | 0.00 | -90.00 | 124.10 | 18.30 |
| 081-9 | 10494.90 | 10134.40 | 1493.10 | 0.00 | 292.00 | -86.00 | 304.80 | 15.00 |
|  |  |  |  | 304.80 | 292.00 | -86.00 |  |  |
| PC82-19 | 10500.00 | 10600.00 | 1490.00 | 0.00 | 0.00 | -90.00 | 76.25 | 7.32 |
| F89-9 | 10500.00 | 10050.00 | 1492.00 | 0.00 | 0.00 | -90.00 | 188.72 | 18.29 |
| FL81-5 | 10500.60 | 9901.80 | 1478.60 | 0.00 | 12.00 | -59.50 | 352.70 | 58.50 |
|  |  |  |  | 67.07 | 12.00 | -59.50 |  |  |
|  |  |  |  | 182.93 | 5.00 | -61.00 |  |  |
|  |  |  |  | 350.61 | 5.00 | -61.50 |  |  |
| FL81-2 | 10501.80 | 10134.70 | 1494.00 | 0.00 | 356.00 | -59.00 | 352.40 | 13.10 |
| FL81-30 | 10505.90 | 9496.80 | 1458.40 | 0.00 | 2.00 | -62.00 | 311.80 | 107.30 |
|  |  |  |  | 106.68 | 2.00 | -62.00 |  |  |
|  |  |  |  | 167.64 | 2.00 | -62.50 |  |  |
|  |  |  |  | 304.80 | 1.00 | -63.00 |  |  |
| 074-4 | 10537.40 | 10019.80 | 1483.00 | 0.00 | 0.00 | -90.00 | 245.70 | 18.30 |
| PH69-11 | 10580.26 | 10117.61 | 1480.60 | 0.00 | 0.00 | -90.00 | 121.90 | 7.60 |
| FL81-31 | 10596.90 | 10297.90 | 1490.10 | 0.00 | 5.00 | -59.00 | 306.30 | 36.60 |
| FL81-7 | 10597.80 | 9923.60 | 1475.60 | 0.00 | 1.00 | -62.50 | 351.10 | 57.90 |
|  |  |  |  | 70.10 | 1.00 | -62.50 |  |  |
|  |  |  |  | 192.02 | 354.00 | -63.50 |  |  |
| FL81-19 | 10599.70 | 10200.40 | 1491.90 | 0.00 | 357.00 | -58.00 | 352.40 | 33.50 |
|  |  |  |  | 60.96 | 357.00 | -58.00 |  |  |
|  |  |  |  | 352.35 | 358.00 | -60.00 |  |  |
| PH69-7 | 10613.40 | 9785.00 | 1471.50 | 0.00 | 0.00 | -90.00 | 106.70 | 3.70 |
| PH69-10 | 10661.00 | 10118.44 | 1479.30 | 0.00 | 0.00 | -90.00 | 121.90 | 8.50 |
| PH69-12 | 10726.70 | 10264.90 | 1481.80 | 0.00 | 0.00 | -90.00 | 121.90 | 3.00 |

APPENDIX III

## APPENDIX III

## STATEMENT OF QUALIFICATIONS

I, Silvia M. Heinrich, of 3330 Radcliffe Avenue, in the City of West Vancouver, British Columbia, do hereby certify that:

1. I am currently employed as Senior Project Geologist by Taseko Mines Limited with offices at 1020 - 800 West Fender Street, Vancouver, B.C.
2. I graduated from Queen's University in Geology, having obtained my Master of Science in 1988 and from the University of Massachusetts, having obtained my Bachelor of Science in 1980.
3. I have worked in the field of mineral exploration in both British Columbia and Manitoba.
4. This report is based on a study of unpublished results from the 1991 exploration program on the Fish Lake property, as well as other available company and government reports.


Vancouver, B.C.

## APPENDIX IV

## APPENDIX IV

## sTATEMENT OF COSTS

## Overburden Drilling Costs:

a) Ten diamond drill holes totalling 228.29 meters of overburden, using a $51 / 4$ inch Tricone bit, at an average cost of \$ 78.13 / meter............. \$ 22,169.93
b) Materials used while driving casing in ddh 91-09 (one 51/4 Tricone bit, one HW casing shoe)....... \$ 1,409.80
C) Reaming shoe, ddh 91-09............. . . . . . . . . . . . . . . . \$ 660.00

Preparation of Report:
S. Heinrich 5 x \$ 185 / day ..... \$ 925.00
J. Botifan $1 \times 260$ / day ..... 260.00




