REPORT ON GEOLOGICAL and GEOCHEMICAL SURVEYS by P.R. DeLancey, P.Eng.

on the ANNA-81 GROUP MINERAL CLAIMS

situated on central Moresby Island Queen Charlotte Islands in the Skeena Mining Division

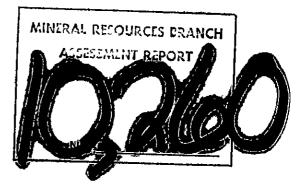
Lat. 52°42' N Long. 131°53'W

NTS 103B/12W

owned by TEXASGULF CANADA LTD. now KIDD CREEK MINES LTD.

work by

TEXASGULF INC.



March 1982

Vancouver, B.C.

:

# TABLE OF CONTENTS

(

 $\bigcirc$ 

5

	PAGE
INTRODUCTION	1
Location, Access and Terrain	1
Property History and Definition	٦
Summary of Work Completed in 1981	2
Work Distribution	2
GEOLOGY	2
Regional Setting	2
Property Geology	3
Lithology	3
· Karmutsen Formation	3
San Christoval Batholith	3
Post-tectonic Stock	3
GEOCHEMISTRY	4
General Statement	4
Analytical Technique	4
Results	4
CONCLUSIONS	5
BIBLIOGRAPHY	7

# APPENDICES

Appendix A	Table of Geochemical Results
Appendix B	Method of Determining Statistical Levels
Appendix C	Statement of Expenditures

Т

.

## LIST OF FIGURES

.

 $\bigcirc$ 

C

٠

-

•

•

<u>Figure No.</u>	<u>Title</u>	<u>Scale</u>	Page
1 ·	Location Map and Inset Detailed Location Map	1:1,303,400	follows p.l
2	Claim Sketch	1:50,000	follows p.1
3	Geology	1:5,000	in pocket
4	Geochemistry Sample Locations	1:5,000	in pocket
5	Geochemistry Au	1:5,000	in pocket
6	Geochemistry Hg	1:5,000	in pocket
7	Geochemistry As	1:5,000	in pocket

.

#### INTRODUCTION

•

Location, Access and Terrain

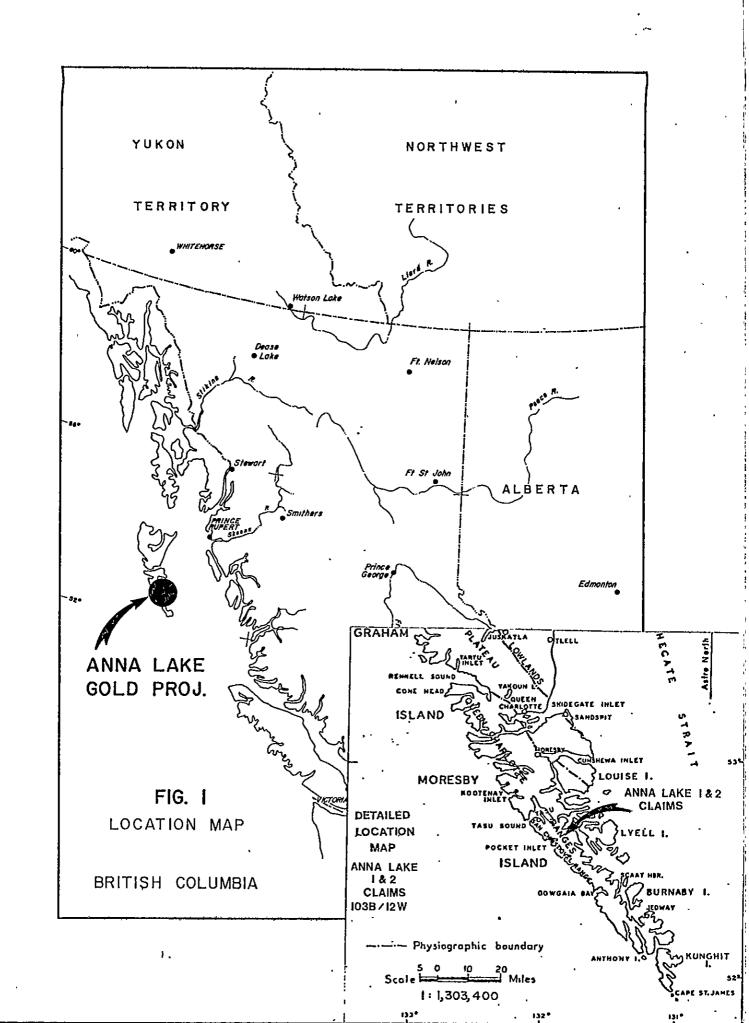
The Anna-81 Group claims are located 5 km southwest of the abandoned settlement of Lockeport, Bk 441, on central Moresby Island, Queen Charlotte Islands. The legal corner post of the Anna 1 Claim (NE corner) is located on the southwest shore of Anna Lake; the legal corner post of Anna 2 (NE corner) is located on the southwest shore of an unnamed lake 3 km southeast of Anna Lake (see Figures 1 and 2). Access to the area is by chartered helicopter from the town of Sandspit, approximately 57 km north of the property.

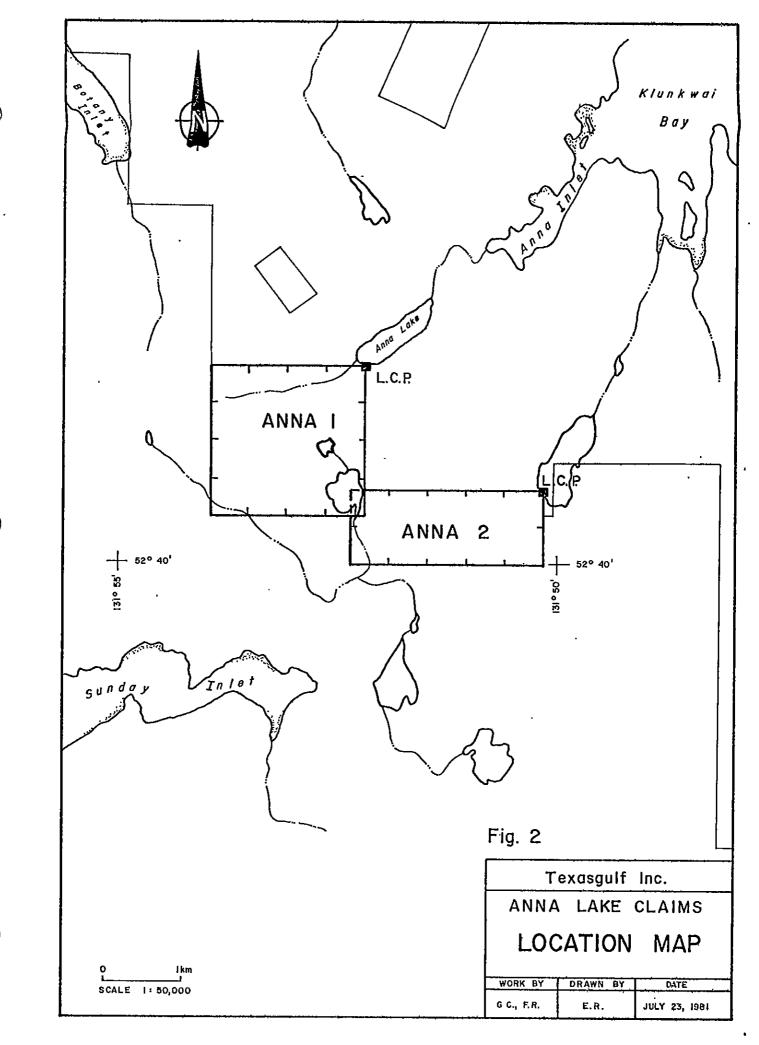
The terrain is extremely rugged with elevations ranging from 64 to 884 metres. The lower slopes are covered by coniferous rainforest. Alpine grasses with local scatterings of dwarfed spruce are common above the 600 metre elevation. Outcrop is abundant along the drainages and steep slopes.

Property History and Definition

Because of the discovery of cup,riferous magnetite deposits at Tasu and smaller showings near Lockeport, the area between these discoveries, including Anna 1 and 2, probably received some attention during the early 1900's. No records, however, of any mineral prospects are known on the Anna 1 or Anna 2 claims. A small adit was discovered less than 25 metres east of the Anna 1 LCP (Figure 3). Its history remains unexplained as little mineralization was noted in the adit or its vicinity.

The Anna 1 (16 units) and Anna 2 (10 units) claims were staked by Texasgulf Canada Ltd. on March 27, 1980, and recorded on April 2, 1980 (Record Nos. 2206 and 2207) and are part of the Anna-81





(

•

Group. This Group consists of 26 MGS units totalling 650 hectares situated in the Skeena Mining Division.

Work described in this report was undertaken by Texasgulf Inc. on behalf of its wholly owned subsidiary, Texasgulf Canada Ltd. The ownership of the claims has been transferred to its successor, Kidd Creek Mines Ltd.

Summary of Work Completed in 1981

A total of 27 man-days of geochemical sampling and geological mapping were carried out by geologists G.N. Cooper and D.A. Bending, assisted by F. Renaudat, G. Nalivko and A. Costigan from April 11 to May 10, 1981. Sample locations were plotted on 1:5,000 scale enlarged topographic maps and geologic data were plotted directly on 1:5,000 air photo enlargements. The sample locations are shown on Figure 4. Geological mapping was conducted along creeks in conjunction with geochemical silt sampling. Rock sampling and geological mapping were carried out along the ridges. P.R. DeLancey and I.G. Sutherland visited the property and also contributed to the sampling and mapping. Work Distribution

All work was carried out on the Anna-81 Group claims.

GEOLOGY

Regional Setting

Regional mapping by Sutherland Brown (1968) indicated the Anna Lake area to be underlain by Triassic submarine basic volcanic rocks of the Karmutsen Formation. These rocks are cut on the west by a large syntectonic dioritic batholith. The area is transected by several northwesterly and northeasterly trending faults.

#### Property Geology

The Anna-81 Group claims straddle the contact between the Jurassic San Christoval batholith and the Triassic Karmutsen Formation. A late, previously unmapped, quartz monzonite porphyry stock occupies the Karmutsen Formation - San Christoval batholith. contact (Figure 3).

#### Lithology

Karmutsen Formation

Volcanic rocks underlying the Anna Lake claims are green to black, massive amygdaloidal greenstones of the Karmutsen Formation. Epidote, calcite, chlorite and quartz occur in numerous fracture fillings and vugs. No indicators of stratigraphic tops were observed because the flows are massive.

#### San Christoval Batholith

Hornblende diorite of the Christoval Batholith underlies the western portion of the property. The rock has a medium-to coarsegrained hypidiomorphic granular texture with very local mafic inclusions of Karmutsen volcanics. The black elongate hornblende crystals (40%) and white plagioclase feldspar crystals (60%) are subhedral in form. This syntectonic intrusive locally displays weak foliation and contains sparsely disseminated pyrite and chalcopyrite mineralization in widely scattered quartz veins.

#### Post-tectonic Stock

This stock is a porpyritic quartz monzonite of probable Tertiary age, approximately 3 square km in area. The dominant phenocrysts are quartz eyes (10-20%) and hornblende crystals (10-15%) up to 5 mm in length. The rock is predominantly fresh with locally altered zones near the stock contact.

#### GEOCHEMISTRY

General Statement

90 rock and 120 silt samples were collected for analysis. All drainage channels in the Anna Lake map area were sampled; rock sampling in conjunction with mapping was conducted along selected streams. Rocks sampled included amygdaloidal greenstones containing epidote, chlorite, calcite, pyrite and quartz vugs and fractures, pyritic granodiorite and quartz monzonite.

Analytical Technique

Silt samples were sieved to a minus 80 mesh size fraction and analysed. Where insufficient fines were present minus 35 mesh material was crushed and pulverized to minus 100 mesh material for analysis. The following extraction and analytical techniques were used:

Extraction Method	<u>Method of Analysis</u>
Perchloric nitric acid digestion	Standard hydroxide
Nitric acid digestion	Atomic Absorption
Fire assay pre-concentration	Atomic Absorption
	Perchloric nitric acid digestion Nitric acid digestion

Results

The 1981 results are tabulated in Appendix A and are plotted on Figures 5 to 7; results of the 1980 geochemical survey are also plotted on the maps. Using standard formula after Krumbein and Graybill (1965), the mean and standard deviation were calculated (Appendix B) for silt and rock samples defining the following statistical levels:

	<u>As ppm</u> Rock	<u>Hg ppb</u>	<u>Au ppb</u>
Possibly Anomalous	22	54	66
Strongly Anomalous	31	70	93

		<u>As ppm</u>	<u>Hg ppb</u>	<u>Au ppb</u>
	Silt			
Possibly Anomalous		45		151
Strongly Anomalous		60		211

Inspection of geochemical results identified five strongly anomalous and two, possibly anomalous, rock samples and five strongly anomalous and three, possibly anomalous, silt samples. Two of the strongly anomalous rock values are associated with an epidote-chloritecarbonate-quartz fracture zone located in the west half of Anna 2 claim and two strongly anomalous values occur in the cirque north of Anna 2 claim and are associated with the cross-cutting quartzmonzonite dyke.

Of the 24 rock samples taken over an intensely epidotechlorite-calcite-quartz veined and fractured zone only 2 samples were strongly anomalous with values of 150 and 95 ppb Au, the remainder ranged in value from < 5 to 30 ppb Au. Arsenic values were generally <10 ppm and only one value of 60 ppb Hg (possibly anomalous) was obtained.

Results in the cirque area are less conclusive. Anomalous Au values of 105 and 100 ppb in quartz monzonite dyke rocks are reflected by anomalous values of 1350, 225, 130 and 500 ppb in silts downstream from this location.

#### CONCLUSIONS

The two areas, each with two anomalous gold samples, lack corresponding anomalous arsenic or mercury values, and occur within the Karmutsen volcanics, near, and east of the quartz monzonite stock contact. One of these zones is characterized by an epidotechlorite-calcite-quartz fracture-filling assemblage, the other by quartz monzonite dyking. The anomalous samples possibly reflect minor, erratic gold mineralization associated with the Tertiary intrusive episode.

P. R. Mancy April 1, 1912

#### **BIBLIOGRAPHY**

- DeLANCEY, P.R. 1970. Queen Charlotte Islands Recce, Texas Gulf Sulphur Company Report, 19 pages.
- DeLANCEY, P.R. 1971. Queen Charlotte Islands Reconnaissance Project, Texas Gulf Sulphur Company Report, 6 pages.
- DeLANCEY, P.R. 1981. Report on Geochemical Surveys on Anna 1 and Anna 2 claims, 4 pages.
- SUTHERLAND BROWN, A. 1968. Geology of the Queen Charlotte Islands British Columbia Bulletin No. 54, pp. 11-163.

APPENDIX A

TABLE OF GEOCHEMICAL RESULTS

.

ANNA LAKE

4

 $\bigcirc$ 

C

•

 $\bigcirc$ 

# APPENDIX A

	•	R	OCKS			
Sample	Prep	As	Hg AU	I-FA+AA		
description	code	ppm	pob	ppb		,
· ·96-GC 1 -81	205	3	<u> </u>	5		
96-GC 2 -81	205	3	10	<b>&lt;</b> 5		⊷⊶
.96-GC 3 -81	205	9	20	100.		
96-GC 4 -81	205	5	189	10	-	
96-GC 5 -81	205	• 35	· 30	30		
- 96-GC 6A-81	205	2	30	<5		 
96-GC 68-81	205	· 4	60	5	,	
96-GC 7A-81	205	2	10	<b>&lt;</b> 5	·	
96-GC 78-81	205	3	20	<5		
96-GC 8 -81	205	3	50	5		· · · · · ·
95-GC 9 -81	205	3	60	20.		
96-GC10 -81	205	· 3	30	<5	·	, <b></b>
96-GC11 -81	205	5	40	<5 .	<del></del> .	
96-GC12 -81 .	205	3	10.	<5 <sub>.</sub>		
96-GC13 -81	205	23	10	10		
96-GC14 -81	205	6	10	<5		·
96-GC15 -81	205	З,	40	<5		· • • • • •
96-GC16 -81	205	3	20	5.		
· <sup>·</sup> 96-GC17 -81	205	5	30	10.	• • •	· ••• •••
96-GC18 -81	. 205	3	170	10		
			_ ·			
- 95-8 2-81	205	11	30	- <u>-</u>	- <u></u>	
· 96-8 3-81 · ·	205	4	10	<5	·	· · ·
96-R 3-81	205	.7	30	75		{
96-R 8-81	205	4	70	<5		
96-R14-81	205	4	40	10	` <del></del>	· •• ••
	205	6	20	15		·/
ł .					١	
		• •		,		.
963 1-81.	205	3	20	5	· · · · ·	
968 5-31	205	. 3	10	<5	• ••••	•
963 7-31	205	25	10	5	;	ب-
965 8-31	205	5	10	5		
963 9-81	205 ·	3	10	<u>&lt;</u> 5		·
96-511-81	205	10	10	15		
95-812-81	205	24	10	200	· +	
96-814-81	205	4	60	<5	··· ··· .	· • • • • • •
96-B15-81	205	Z٠	10	· <5		
96-B26-81	205	2	10	15		
96-527-81	205	4	10	30		<sup>2</sup>
96-829-81	205	9	30	50		• •• -•
96 GP 1 81	205	4	10	20	۱ 	
96 GP 1 81 96 GP 2 81	205	32	20	20 105		
96 GP 2 81 96 GP 3 81	· 205	3	10	<5		· •••
96 GP 5 81 96 GP 5 81	205		10	20		4-2
96 GP 6 81	<u> </u>	<u>5</u> 6	$\frac{10}{10}$	<u>_20</u> 5		
96 GP 7 81	205	9	· 10	5		
96 GP 8 81	205	22	10	15	*= ==	
. 96 GP 9 81	205	11.	20	10	 ويد خت	
96 GP 11 81	205	<u>3</u>	10	5		
· · · · · · · · · · · · · · · ·	•• • • <u>····</u> ··	·······				·····
						į

Sample	Prep	AS		I-FA+AA		
description	code	<u>mqq</u>		<u>ppb</u>		
96 RC 1 81	205	4	10	30		
96 RC 2 81	205	, 5	20	5	<u>⊷</u> , ,-=	
96 RC 3 81	205	' 7	20	150		
96 RC 4 81	205 ·	· 9	10	10	ورجيع والمتلج المتحدين	
96 RC 5 81	205	5	10	5	·	- <del></del> .
96 RC 6 81	205	6	10 10	10 5		
96 RC 7 81	205 205	3	10	5		
96 RC 8 81 96 RC 9 81	205	· · · · · · · · · · · · · · · · · · ·	10	5		
· 96 RC 10 81	205	3	10	10	·	
96 RC 11 81	205	<u>_</u>	10	. 10	,	
96 RC 12 81	205	4	10	10		• .
96 RC 13 81	205	·5	· 10	15		
96 RC 14 81	205	3.	10	5	· · · .	
96 RC 15 81	205	<u> </u>	ĩõ	<5		•
96 RC 16 81	205	2'	10	5		•
	• •	• -			•	
96AG 1-81	205	4	40 -	<5		
96AG 2-81	205	15	, 30	30		•
· 96AG 3-81	205	. 46	20	75	,	
· 95AG 4-81	205	. 2	10	<5		
96AG 5-81	205	<u>6'</u>	_10	10		
95AG 7-81	205	14	10	10		
		<u></u>	<u>,.</u>	· · ·	•	
96 N 27 81	205	5	10	60 Q	*****	•
	· · ·		· · · · · · · · · · · · · · · · · · ·		<u>.</u>	
90-01-81	205	15		<5		
96-02-81	205	10	50	<5 .	•	
96-03-81	205 205	3	· 30 ·	<5		
96-D4-81	205	3	40	< <5		-
i 96 GC1A-81	205	<u>_</u>		<5		<u> </u>
96-GC2A-81. 96-GC3A-81.	205	2	20	<5	<b></b>	
· 96-GC4A-81	205	. 3	40	< 5		
96-GC5A-81	205	. 3	<b>40</b> · ·	< 5		
96-51-81	205	6	30	· 5		
75-52(A)-81	205		30	<u>. 5</u>		
196-52(8)-81	205	2 -	60	95		
				•		
•		<u>.</u>				
	Prep AU-		····			
Sample description	code			<u>`</u>		,
96 BC 1 B1 .	205	<5				
96 BC 3 81	205	<5		<b>***</b> ***		
96 BC 11 81	205	<5	~-			
: 96 BC 12 81	205	<5				-
96 BC 13 81	205	<5	نویس استان 		هي مخي 	<u> </u>
96 BC 14 81	205	<5				
96 BC 15 81	205	10		<b>~~</b> ~~	~ <u>~</u>	
96 BC 16 81	205	10		~~	1990 - 19-18	

٠

Ċ.

•

 $\bigcirc$ 

•

-

 $\bigcirc$ 

.

			SILTS			
Sample	Prep		I-FA+AA			
description		<u>mqq</u>	<u> <u>cca</u></u>	·		
96-AC-1-81	205	7	10			
96-AC-2-81	205 -	· 6	15			
96-AC-3-81	205	5	10		<del></del>	
· 96-AC-4-81	205	9	50	······		
96-AC-5-81	203	5	20			
96-26-6-81	205	3	15		*****	
96-AC-7A-81	205	6	20		÷	
96-AC-73-81	205	7	15	 -		- <b>1</b>
96-AC-8-81	203	. 6	60	, <sup>*</sup>		
96-AC-9-81	203	6	40	** **	<del></del>	•
96-AC-10-81	203 '	10	15			
96-AC-11-81	201	10	10			
96-AC-12-81	203 :	10	10		•	•
.96-AC-13-81	203	19	10	· '		•
96-AC-14-81	203	4		· · · · ·		
96-AC-15-81	. 205	6	10			
96-AC-16-81	203	4	<5		· ••••	
·95-AC-17-81	203	7	10			•
.96-AC-18-81	205	16	15			••
. 96-AC-19-81	203	20	40		*	۰.
96-AC-20-81	203	33	20			
. 96-AC-21-81	203	15	25		هې سنو	
96-AC-22-81	203	24	10			•
96-AC-23-81	203	23	10_ `	<b></b>	•	
96-40-24-81	203	83	· . 5	<b></b> .		•
96-AC-25-81	203	57	10			•
96-AC-26-81	201	5	<5			
96-AC-27A-81		19	5			
96-AC-278-81	201	3	· 5	•		
96-AC-28-81	205	12	10		· .	
96-AC-29-81_	203	6	5	==		
96-AC-30-81	205	3	190			
96-AC-31-81	.203	4 5 5 3	20	<del></del> .	·	
.96-AC-32-81	. 203	5	850		·	
96-AC-33-81	203	5	20			
96-AC-34-31	. 201	3	15		يد مع 	
96-AC-35-31	203	7	15		<b>~</b>	
96-82-81	. 201	. 5	10			<u>.</u>
96-52-81	203	5	15		<b>.</b>	•
96-85-81	201	. 6	5	·		•
96-B6-81	201 ·	. 12	10			
96-810-81	· 201	2	10	-,		•
96-313-31	201		20			
96-B20-81	201	3	25	<u> </u>		
96-321-31	203	••5	25		<b>-</b> -	
96-822-81	201	4	195		نبت الج	
96-823-81	201	5	30			
70-923-01	201	······································		•		•

.

(

.

 $\bigcap$ 

4

C

•							
	Sample description	Prep code	AS A ppm	U-FA+AA ppb			•
•	96-R1-81	217	2	10			••
$\sim$	96-R2-81	217	12	10			<sup>!</sup> ,
$\cup$	96-23-81	203	30	10			·
	96-24-31	. 217		<u>, 60</u>			
	96-25-81	203	3	· 30		·	
	96-R6-81	203	5	10	~~		
	96-27-81	203	6	<sup>'</sup> 5	\$*** \$** <b>\$</b>		
	96-R8-81	203	. 6	1350	<del>.</del>		
	<u>96-R9-81</u>	201.	<u>6</u>	15		<u>•</u>	
	96-R10-31	203	6	- 225			
	96-R11-81	203	· 7	25	••••••		
	96-R12-81	203.	4 7	130	, ·	 	 
•	96-R13-81. 96-R14-81	201 203	-	1 <u>500</u>			
	96-R15-81	201	11	20		• • •	 
	95-R15-81	201	12	· 20		•	. ) 
	96-817-81	201		5	·		
	96-R18-81	201	24	10	、 <del></del>		ر <b>۔۔۔</b>
	96-219-81	203	14	25	·``		
	96-R20-81	203	10	15	· · · · · ·	• أحدهم	المعمد ال
•	96-R21-81	203 ·	12	10		·	· ·,
	96-R22-81	203	22	195			
	90-223-81	201 .	135	, <b>5</b>		<sup>1</sup>	· · · · · ·
· ·	96-824-81	203	53	25			<u></u>
	96-R25-81	201	-50	85		- مبه میرد د	
	96-R26-81	203	22	90		e-7 e-6	
$\bigcirc$	96-R27-81 96-R28-81	203 203	16 20	<5 10			
•	96-R29-81	203	5	5			
•	96-830-81	203	32'	55		 بین 60	ر زا سر هم ب
4	96-831-81	205	17	20			•• •••
	.96-R32-81	203	22	30			اً  
	96-833-81	201 ·	5٠	5	÷`	÷ '	·
	95-834-81	203	<u>17</u> .	30		چي هم 	
	96-835-81	· 203	19	<u>30</u> 40 <5		•••••	
	96 R 36 81	203	71	. <5 5'		 ·	<b></b>
	96 R 37 81	201 · · ·	29	5	~~ ·	<u>مہ جن</u> ہ	
							ļ
	96 G 1 81	201 .	. 5	20 <sup>°</sup>		÷	•
	96 G 2 81	203 .		<5			•
	95 6 3 81	201	7	<5	• •••	· · ·	·
	96 6 4 81	201	5	20	· · ·	· ·	
	96_G 5 81	203	10	. 15		· • •	
							ľ
		201	1.4	ワンド	<b></b>		•
	96 GP 10 81 96 GP 12 81	201 203	14 30	225 90		·	
		603	20	20		•	];
$\cap$							
			• •				
					•		
				•			
							ľ
	1	•			•		
	1						

	• • • • • • •		_			
Sample	Prep	As A	U-FA+AA			- · · · · · · · · ·
description	code	. ppm	doq			
96-N1-81	203	12	10			
· 96-N2-81	203	6	10			-
96-N3-81	203	6.	. 20	يند هو		· _
96-84-81	203	4	<5			•
96-N5-81	201	4	<b>\$</b> 5	~ -		
95-N6-81 ·	203	4	<5			
96-N7-81	201	11	15	, 		-
96-N8-81	201	14	20 .		<u></u>	• -
96-N9-81	203	4.	10	• • ••	And 1.4	
<u>96-N10-81</u>	203	7	10		· ·	-
96-N11-81	203	10	10			
.96-N12-81	. 201	· 5	5			
96-N13-81	203	4	< 5		·	·
.96-N14-81	203	5	· 5	~~~ ·		· _
96-N15-B1	201	12	10		*** ==	
95-N16-31	201	41	60			······································
96-N17-81	203 ·	10	5	·	· · ·	• …
: 96-N13-81	201	17	15 <sup>°</sup>		474 April 1	
".96-N19-81	· 201	16	20			· .
96-N20-81	201	12	35		ہے بکہ	
<u>. 96 N 21 81</u>	217.	14	10			· · · · ·
96 N 22 81	201	15	5		***	
96'N 23 81	203	9	10	·		
96 N 24 81	201	4	10		÷.	
. 96 N 26 81	205	12	<5			
<u>96 N 28 81</u>	203		145		ا میں مط	
96 N 29 81	205	15	15			· · · ·
95 N 30 81	203 ·	83	95			·
96 N 31 81	201	59	70			• • • • •
-		•	• -	•		

•

.

.

Ċ

 $\bigcirc$ 

 $\mathbf{C}$ 

### APPENDIX B

.

## METHOD OF DETERMINING STATISTICAL LEVELS

#### APPENDIX B

#### METHOD OF DETERMINING STATISTICAL LEVELS

The basic procedure for evaluating geochemical results includes calculation of the mean and standard deviation of a group of samples (Krumbein and Greybill 1965). The resulting mean  $(\overline{X}^{\dagger})$  plus 5 standard deviations (S<sup>±</sup>) equals a cutoff value. Samples with values exceeding this cutoff value ( $\overline{X}^{\dagger} + 5S^{\dagger}$ ) are discarded from the group. A new mean ( $\overline{X}^{*}$ ) and standard deviation (S<sup>\*</sup>) are calculated from the remaining samples. By using the following:

> $\overline{X}$ " + 2S" = Threshold Anomalous Level  $\overline{X}$ " + 3S" = Anomalous Level

There is a 95% confidence in all values greater than the mean plus 3 standards of deviation being anomalous. There is an 85% confidence in all values greater than the mean plus 2 standards of deviation being anomalous.

Calculations involve the following mathematical relationships: Mean =  $\frac{1}{N} \sum_{i=1}^{N} X_i$ Std. Dev.=  $\sqrt{\text{variance}}$ Var. =  $\frac{1}{N} \sum_{i=1}^{N} (Xi - Mean)^2$ 

Where: N = 367, total number of samples in the group X = individual values of samples within the group eg. 10 ppm, 35 ppm, etc. i = individual, sample eg. 1, 2, 3 . . . APPENDIX C STATEMENT OF EXPENDITURES

 $\square$ 

 $\bigcirc$ 

ŕ

 $\left( \right)$ 

C. R. Manuer April 1982

### APPENDIX C

STATEMENT OF EXPENDITURES

ANNA-81 GROUP (ANNA 1 AND ANNA 2)

## SALARIES AND FRINGE BENEFITS - TEXASGULF INC.

P.R. DeLancey, P.Eng. Period:April 11-May 10	2 days @ \$200.	\$ 400.
D.A. Bending Period:April 11-May 10	1 day @ \$140.	140.
I.G. Sutherland, geologist Period:April 11-May 10	1 day @ \$140.	140.
G. Cooper Period:April 11-May 10	7 days @ \$95.	665.
F. Renaudat Period:April 11-May 10	6 days @ \$65.	390.
G. Nalivko Period:April 11-May 10	4 days @ \$70.	280.
A. Costigan Period:April 11-May 10	6 days @ \$60.	360.

ROOM AND BOARD 27 man-days @ \$80./day 2,160.00 AIR FARES proportioned 498.79 HELICOPTERS Queen Charlotte Helicopters (invoiced costs) 6,475.08 ANALYTICAL COSTS (CHEMEX LABS) 120 samples @ \$10.75 Geochemistry (silt) \$1,290. Geochemistry (rock) 90 samples @ \$14.25 1,282.50

\$2,572.50 2,572.50 61.45 REPORT PREPARATION P.R. DeLancey, P.Eng. 1.5 days @ \$200. 300.

Drafting, reproductions, secretarial

SHIPPING

\$500. 500.00

200.

\$2,375.00

TOTAL:

\$14,642.82

\$ 2,375.00

