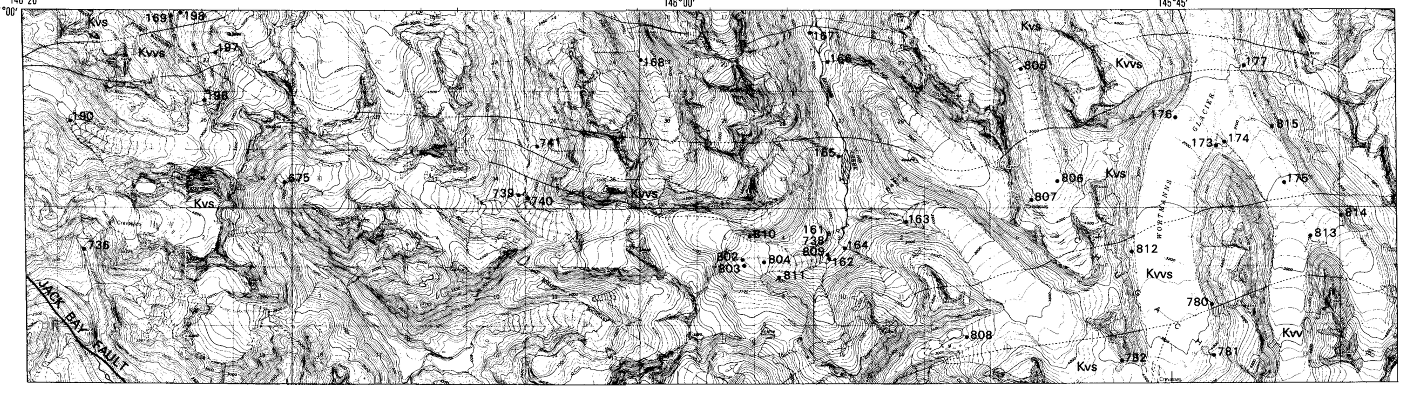

Figure 10. MAP SHOWING SAMPLE SITES BETWEEN SOLOMON GULCH AND WORTMANNS GLACIER

Tabulation for figure 10

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
161	Pb(200), (Fe, Ba, Cr, V)	Fe(50), Ag(500), As(>20,000), Au(>1,000), Bi(300), Co(500), La, Nb, Ni, Pb(7,000), W(1,000), Y(1,000), Th(2,000), (Cu, Sc, V).
162	(Fe, Ba, Ni, V)	Fe(50), Ag, As(10,000), Bi(150), Co(300), La, Pb(3,000), V, Th(300), W(2,000), Y(1,500), (Ca, Sc).
163	Ni, (Fe, V)	Fe(50), Co(1,500), Nb(200), Ni(500), Zn(1,000), (Sc, V, Y).
164	Ni, (Fe, V)	Co(20), As(15,000), La(1,000), Pb, Sc, V(700), Y(1,500), (Nb).
165	Mg(10), Cr(500), Cu(2,000), Ni, (Fe, Ca, V).	Fe(50), Co(2,000), Cu(2,000), Nb(200) Ni(1,000), Th(700).
166	(Ba, Ni, V)	Fe(50), As(10,000), B, Co(1,000), Cu(1,000), Ni(500), Pb, (Ag).
167	Mg(10), Ca(5), Cr(1,500), Cu(200) Ni(150), (Fe, Co, V).	Ca(20), Cu(2,000), Cr, V, (Mg, Co).
168	Mg(5), Cr(300), Ni, (Fe, Ca, Ba, V)	Fe, As(15,000), Co(700), Cr(1,000), Pb(1,500), Zn(2,000), (Ca, Ag, V).
169	Mg(10), Ca(5), Co, Cr(1,000), Ni(150), Sc, (Fe, Mn, V).	Ca(20), (Mg, V).
173	Mg(5), Ni, (Fe, Ca, Co, Cr, Cu, V)	As(15,000), Au(50), Co(700), Cu(5,000), Bi(200), Pb(500), V, W, (Mg, Ag).
174	Mg(5), Cu, Ni, As, (Fe, Ca, Co, Cr, V).	Ag(300), As, Au(300), B, Co(500), Cu(5,000), Sn(70), V(700), (Mg, Ni).
175	(Fe, Ni, V)	As(15,000), Pb, Th(700), (Mg, Ag, Cu, Nb).
176	(Ni)	Fe, As, Co(5,000), Cu(1,500), Ni.
177	(Ni)	Cu, V, (Fe, Mg, Co).
190	Ba, Sr, (Ca, Ni)	Ag, As, Au(150).
196	Ca(5), Cr(300), Ni, (Fe, Mg, Co, Cu, V).	As, Au(70), Cu(3,000), (Mn, Ag, V).
197	(Ba, Ni, V)	Nb, Sn, (Mn, La, V).
198	Mg(10), Cu(5), Cr(1,000), Ni(150), (Fe, Co, V).	Co(300), Ni, Fe, (As).
675	--	As(20,000), Nb, Th.
736	(Be)	Ag(200), Au(200), Pb, Sn(50), (As, Bi, Sc).
738	Au(1.5), (Be, As)	Ag(50), As(>20,000), Bi(70), Pb(2,000), Th, (Co, Sn).
739	Au, As(45)	Fe, As(20,000), Ag, Co(700), Ni, Pb.
740	As	Ag(50), As(>20,000), Au, Bi(100), Pb(1,500), Th, (Co).
741	--	Ag, As, Co(500), Pb, Zn(1,000), (Bi,Th).
780	Ag, Ba, (Fe, Mn)	--
781	Ca(5), Mn(3,000), Ag, Co, Cr(500), Cu, Ni, Sc, Zn(180), Cd, (Fe, Mg, Ti, V).	Ag, As(15,000), Au, Bi, Mo, Pb(1,000), Th, (Co, Nb, Sn, Y).
782	Ba, Sc, (Fe, Ti, Mn, Co)	--
802	Sr, As, (Ba)	La, Mo(10), Pb(1,000), Sc, Sn(70), Y(1,500), Th(500), (Mn, Bi, V).
803	Ba, Sr	As(15,000), Fe, Co(300), Ni, Pb(1,000), Th.
804	Ba, Sr, (Ti)	Ag, As(20,000), Ni, Pb(3,000), Fe, Bi, Co.
805	Mo(7), (Ba, As)	As, Bi, Pb, (Co, Ni, Zn, Th).
806	Ag, Mo(5), (Ba, Pb, As)	Mo, (Mg, Sc).
807	Mo(5), Au(.08), (Ba)	Mg, Sc, (Cr, Sn).
808	Mo(10)	Mo(10), Sn, (Sc, Th).
809	La, Mo, Au(.06), As(160)	Ag(70), As(>20,000), Au(200), Bi, Mo, Pb(1,500), Th, (Co, Ni).
810	Au, As(150), (Ba)	As(20,000), (Ni).
811	(Ba)	Ag, Au(100), Mo(10), Sn, (Bi, Pb, Th).
812	Cu, Mo, Cd(.6), As(40), (Co, Ni, Zn)	Ag, Sc, (Mg, Sn).
813	Mo(15), Au, (Ba)	(Mg, Ba, Cr, Sc).
814	Ag, Mo(7), Au, (Ba, Pb)	Mo, (Co, Ni).
815	Mo(7), Au(.12), (Ba)	Au, Co(500), (Fe, Ag, Cu, Ni).

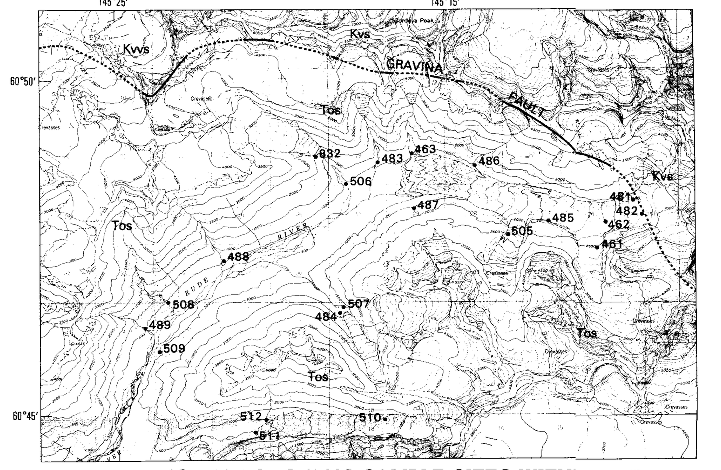

Figure 12. MAP SHOWING SAMPLE SITES WITHIN THE UPPER RUDE RIVER WATERSHED

Tabulation for figure 12

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
461	Ag(.5), Co(100), Cu(200), Ni, Pb(100), Zn(200), Cd, (Fe, Mg, Ba).	As(15,000), B(1,000), Ba, Be(7), Bi, Cu, W(5,000), (Ca, Pb, Nb, V).
462	Ba, Co, Cu(500), Ni, Pb, (Fe, Mg, Mn, B, V).	Fe(50), Ag, Ba, Bi(50), Co(500), Cu, Ni(300), Pb(1,500).
463	(Fe, Mg, Ba, Co, Ni, V)	Insufficient sample.
481	(Cu)	Ag(150), Au(700), Ba, Bi(50), Ni, Pb(2,000), W, Th, (Fe, Mn, Cr, Cu, Nb, V).
482	(B, Cu, Ni, Pb)	Fe(50), Ag, Bi, Cu(2,000), Ni(300), Pb(1,500), (As, Co).
483	(B, Cu, Ni)	Fe(50), Ag(200), Au(700), Bi(50), Cu, Ni(500), Pb(2,000), (Co).
484	(B, Cu)	Fe(50), Bi, Ni(300), Pb, (Co).
485	(Cd)	Mg, Mn, As(>20,000), Bi, Cu, V, (Ca, Co, Cr, Pb).
486	--	As, Bi, Ni, W, (Fe, Sc, Th).
487	(Ba)	W, Th, (Bi).
488	--	Bi, Ni, Pb, (Fe).
489	(B, Ba)	Bi, Ni, Pb, (Fe).
505	--	Fe(50), Bi, Ni, Pb.
506	(Fe, Cu)	Fe(50), Bi, Ni, Pb, (Ag).
507	--	Fe(50), Ag, Au(100), Bi, Cu(2,000), Ni(300), (Co, Pb).
508	--	Fe(50), Au, Bi, Ni.
509	(Fe, Ba, Cu, Pb, Zn)	(Bi).
510	(Fe, Ba, Cu, Pb)	W, (Ni).
511	--	Ag, Cu, Ni(300),Pb, Zn(1,000) (Fe, Co, Th).
512	Pb, (Fe, B, Ba, Cu, Ni)	Zn(700).
832	Zn(210), (Ni)	Insufficient sample.

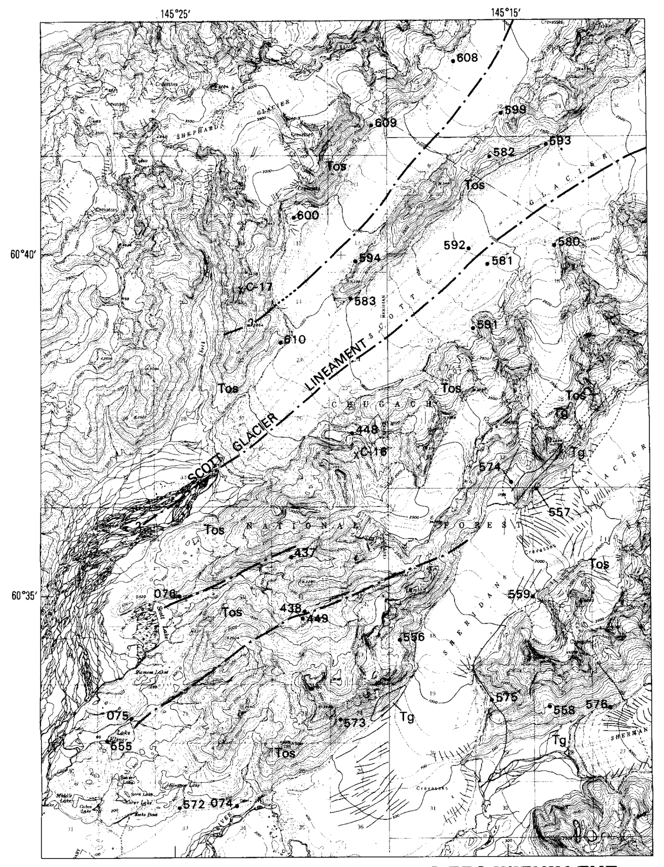

Figure 14. MAP SHOWING SAMPLE SITES WITHIN THE SCOTT GLACIER AND SHERIDAN GLACIER WATERSHEDS

Tabulation for figure 14

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
074	(Ba, Pb)	Be(7).
075	Ba, (Mn, Co, Ni)	Insufficient sample.
076	Mg, (Ba)	Insufficient sample.
437	Cu, (Fe, Mg, B, Ba, Co, Ni, Pb, V)	(Ca, Be).
438	Fe, (B, Ba, Cu, Ni, Pb)	Ag, As(>20,000), B(1,000), Be, Cu(1,500), (Ca, Co, Pb, Zn).
448	Pb, (Fe, Mg, Ba, Cu, Ni)	Ag, As, B(1,000), Bi, Cu(1,000), Pb, Sb(500), Zn(700), (Fe, Co).
449	(Fe, Ba, Cu, Ni, Pb)	Be, Bi, Th, (Ca, B).
555	Zn(170), (Cd, As)	--
556	Zn(190), As(45), (Co)	B(1,000), Be.
557	--	(Ca).
558	Zn(260), (Cu)	(Ba).
559	Ca, (Fe, Cu)	W(3,000), (Nb).
572	Mn, Co, Cu(1,000), Zn(180), (Fe, Ba, Ni, Pb, Cd).	(Nb).
573	Cu(1,000), (Ba, Co, V)	--
574	Cu(1,000), (Fe, Ba, V)	Be, W.
575	(Ba)	As(10,000), Be, Bi, Th.
576	Ba, Sr, (Pb)	(Be).
580	W(300), Zn, (Ca, Ba, Co, Cu, Ni, Pb, Cd).	--
581	(Ba, Cu)	Be.
582	Ni, Pb, Zn(180), (Fe, Ba, Co, Cu, Cd, As).	--
583	(Fe, Cu)	(Fe, Ni).
591	Ba, (Fe, Cu, Ni, Pb)	W(2,000), (Be).
592	Fe, Ba, Cu, Sr, (Co, Ni, Pb)	W, (Be).
593	(Fe, Ba, Cr, Cu)	W, (Ca, Be).
594	Fe, Ba, Cu, (Mg, Ca, Co, Ni, Pb, V)	Cr(500), Ni, W(2,000), Th, (Ca, Be).
599	Ba, (Fe, Ca, Mn, Cu, Ni, Pb)	Be, W, (Ca).
600	Ba, (Fe, Ca, Cu, Ni, Pb)	As(>20,000), (Bi, Th).
608	(Ba, Pb)	W(2,000), (Th).
609	(Ba, Pb)	Pb, Th.
610	(Fe, Ca, Ba, Cu)	Cu(2,000), Ni(300), (Fe, Co).

KNOWN MINERAL OCCURRENCES (Jansons and others, 1984)

C16 Massive and disseminated pyrrhotite, bornite, chalcopyrite, and sphalerite.
C17 Massive and disseminated pyrrhotite, pyrite, chalcopyrite, and sphalerite.

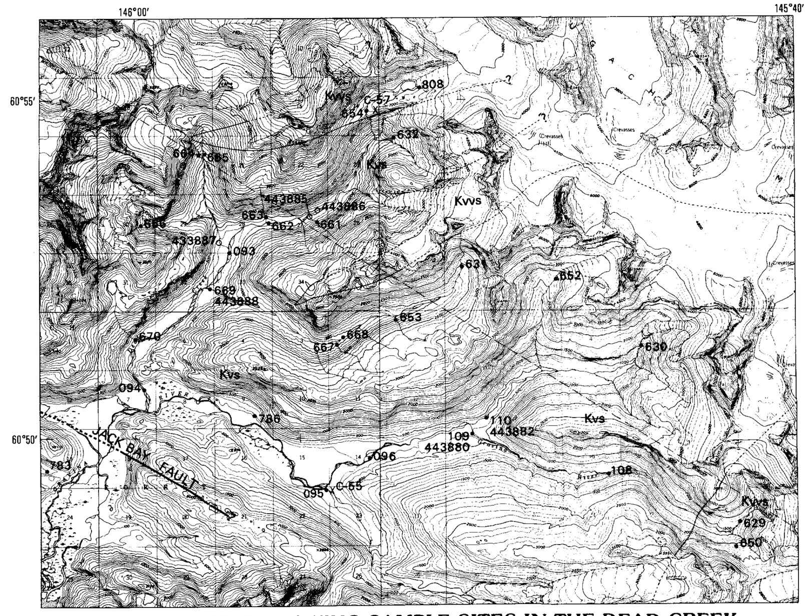

Figure 16. MAP SHOWING SAMPLE SITES IN THE DEAD CREEK AND GRAVINA RIVER WATERSHEDS

Tabulation for figure 16

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
093	(Cr)	As, Sc, Sn, W(5,000), (B, Pb).
094	(Mg, Cr)	W, (B).
631	(Mn, Cu, Pb)	Mg, Mn(>10,000), Bi(150), Cu(1,500), V, W, (Cr).
632	(Ba, Pb)	Mn, La, Nb, V, Th, (Ca).
653	La, Y, (Fe, Ca, Ba, Co, Zr)	Insufficient sample.
654	Fe, Co, Cu, Ni, Pb, Cd, (Mg, Ca, Mn, Ba, V).	Mg, Cu, V, (Ca, La, W).
661	--	Mn, As(15,000), B(700), Bi(100), Ni, Pb, W, (Co).
662	W(<50)	Ag(100), As(15,000), Au(300), Bi(100), Sn, W, (Co, Ni, Th).
663	--	As, Sn, (W).
664	--	Ag, Au(100), (W, Y).
665	--	As, (W, Y, Th).
666	As(55)	As, Bi, (Be, W, Th).
667	--	(W).
668	Y, (Mn)	As, Bi(70), W, Th.
669	--	(W).
670	As	Ag, B(700), Mo(30), (As).
786	Mn(5,000), Y(100), Zr(500), (Ti, Ba)	Mo, Sc(70), Y(1,000), (Bi, Cr, Sn, V), Th(1,000).
808	Mo(10)	Mo(10), Sn, (Sc, Th).
095	(Zr)	(Ca).
096	Mn(5,000)	--
108	Ag	Mg, Mn(10,000).
109	Mn(5,000), Y	Mn.
110	Mn(>5,000), Y	Be,(10), (Mn).
629	Mn, (Cu)	Mg(3), Mn, Cu(2,000), V, (Ca, Ni).
630	--	Mn, V, Zn(1,500), (Be).
650	Y(500), (Fe, B, Ba, Cu, Pb, V)	Mg(3), Mn, Cr, V(700), (Ca, Ni).
652	Fe, Ti(1), Mn(>5,000), Y(100), (B, Ba, Cu, Pb, Zr).	Mn(>10,000), La, W, (Mg, As, Co, V).
783	Mn(5,000), Co(100), (Fe)	Sn(>2,000), (Mn, Cr).

NURE SEDIMENT ANOMALIES

443885 Cu(87), W(33), As(60), (Cr), Mn(2,059), Ti, Yb.
443886 (As), Au(.19), (Ni), (Mn).
443887 Cu(90), (As).
443888 Cu(85), W(40), As(53), Au(.15), (Cr), Mn(3,154), Ti(6,224), Yb(6.6).
443880 Cd(9), W(17), Dy(31), Lu(3.5), Mg(19,230), Mn(18,940), Sc(47), Ti(3), Yb(30).
443882 Dy(11), Lu(0.8), Mn(3,705), Yb(8.1).

KNOWN MINERAL OCCURRENCES (Jansons and others, 1984)

C55 Altered felsic intrusive float with pyrite, chalcopyrite, and scheelite.
C56 Shear zone containing quartz veinlets with chalcopyrite, sphalerite, malachite, and azurite.
C57 Shear zone containing pyrite, sphalerite, and malachite.

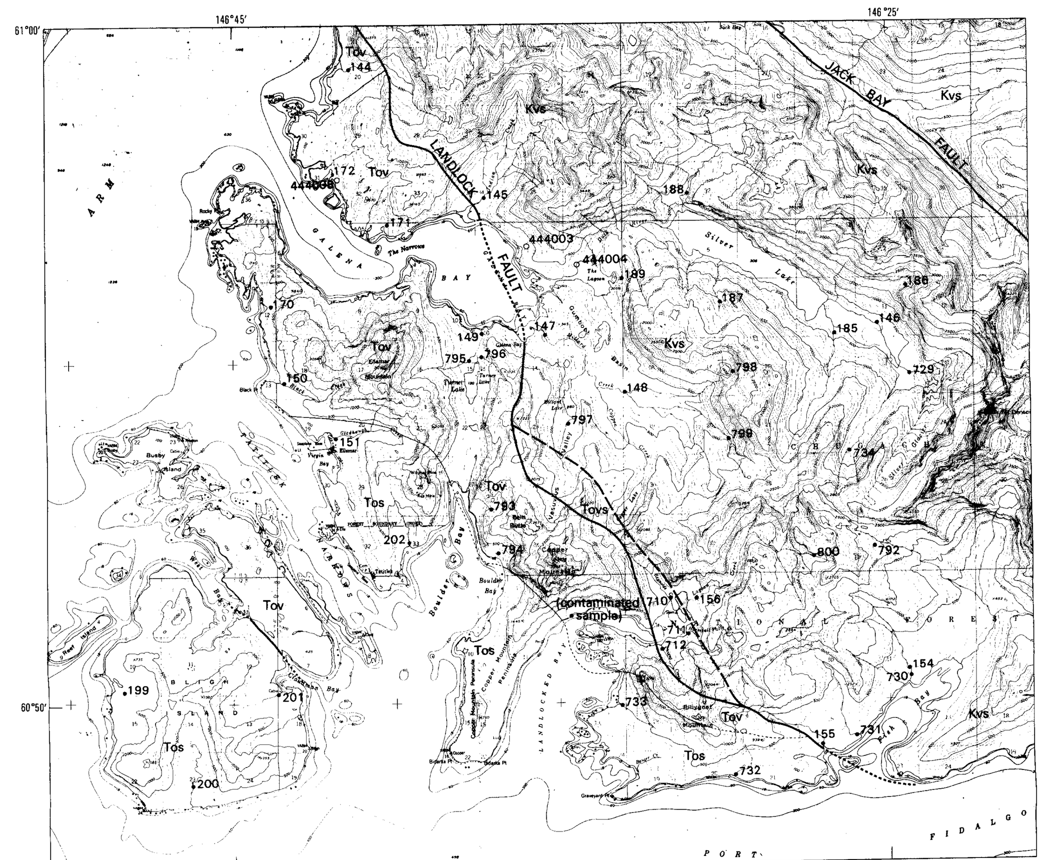

Figure 17. MAP SHOWING SAMPLE SITES BETWEEN ELLAMAR AND GALENA BAY

Tabulation for figure 17

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
144	(Fe, Ti, B, V)	(Ni, Zn).
145	(Ti, Ba, Pb)	(Cr).
146	Ag, (Ti, Ba, Zr)	Mn, Cr(1,000), La, Sc(70).
147	--	Mg, Sn(50), (Cr).
148	Au(.10), (Ti, Ba, Cr, Pb)	Mg.
149	Mn(>5,000), Co(100), Cu(200), Sc, (Mg, Cr, Pb).	Mg.
150	Mg(5), Cr(300), Sc(70), Zn(230), (Co, Ca, V).	Mg.
151	Mg(5), Co, Cr(300), Sc	Mg.
154	(Ba, Pb)	--
155	Sc, (Mn, Ba, Cr, Pb)	(Mn).
156	La, (Ti, Ba)	Mg, Mn(>5,000).
170	(Ca, Ni)	Ca(20), B, V(1,000), (Mg, Mn).
171	--	Mg(5), Cr, V(700), (Ca, Mn).
172	Mn, Co, (Ni)	Mg(7), Ca(20), Mn(3,000), Cr(1,500), Ni, Sc(70), V(700), Zn.
185	La, (Ca, Ba, Ni, Pb, Zr, As)	As, La(2,000), Nb(200), S(70), (Ca, Mn, V, Y), W(1,500).
186	(Ca, Ba, Ni, Pb, As)	Nb, (W).
187	Zn, Sb(<1), As(75), (Ba, Ni)	Nb, (As).
188	(Ba, Ni)	Insufficient sample.
189	Pb, Zn(170), Sb(<1), As, (Fe, Ba, Co, Ni, V).	Insufficient sample.
199	Fe, As, (B, Ba, V)	Sn(70), (Nb).
200	Fe, Mn(>5,000), Co, Ni, Zn(300), Cd(.85).	Mg, Nb, Sc(100), Sn(100), V, (Cr, Y).
201	Fe, Mn(5,000), Co, Ni, (B, Pb, V, Cd).	Ni, (Fe,Cr).
202	Fe, Mn(>5,000), Co(100), Ni, Pb, Zn(330), (B, Ba, V), Cd(.95).	Fe(50), Ni(700), Pb(1,000), (Cu).
710	Cu(500), Zn(200), (Mn, Cd)	Cu(7,000), Pb, Sn(1,500).
711	--	Sn, (Mn).
712	Zn(210), Cd(.6)	Cu(1,500), Sn.
729	Au(.5)	As, Cr(7,000), (Bi, Sn, Th).
730	As(<200)	Cr(10,000), (Th).
731	As, (Mn)	Ag(100), As, Au(70), Bi, Cr(2,000), Sn, (Pb, Th).
732	As, (Mn, Cd)	Sn(500), (As, Cr, Th).
733	Mn(5,000), Cd(.5), (Co, As)	(Sn).
734	Ag, As(60)	Mo.
792	Ba, As, (Mn, Co)	Insufficient sample.
793	Co(100), Cr(300), Sc, Zn(230), (Fe, Mg, Ca, Mn, Ni, V, Cd).	Insufficient sample.
794	Ca, Cr(500), Ni, Sc(70), (Fe, Mg, Ti, Co, V).	V.
795	Co, Cr(300), Sc, Zn(250), Cd, (Mg, Ti, Mn, Ni, V).	--
796	Ag, Zn(230), (Mg, Mn, Ba, Co, Pb, Cd).	B(>5,000), Ba (Ca, Mn, Cu, Nb).
797	Ca, Ag, Y, Zn(250), Cd, (Mg, Mn, Co, Cr).	Insufficient sample.
798	Ag(.7), Zn, As(50), (Fe, Ti, Mn, Co, Cr, V).	Sn, W(2,000).
799	Ba (Ti, Mn, B, Co, Pb)	Insufficient sample.
800	Sb(2), As, (B, Ba)	Insufficient sample.

NURE SEDIMENT ANOMALIES

444003 Ni(105), Cl(5,032), Cr(437), Mg(25,180).
444004 U(5.8), Cl(18,730).
444008 U(9.1), Cl(6,301), Zn(237).

KNOWN MINERAL OCCURRENCES (Jansons and others, 1984)

C67–C94 Many mines and prospects throughout Ellamar region.

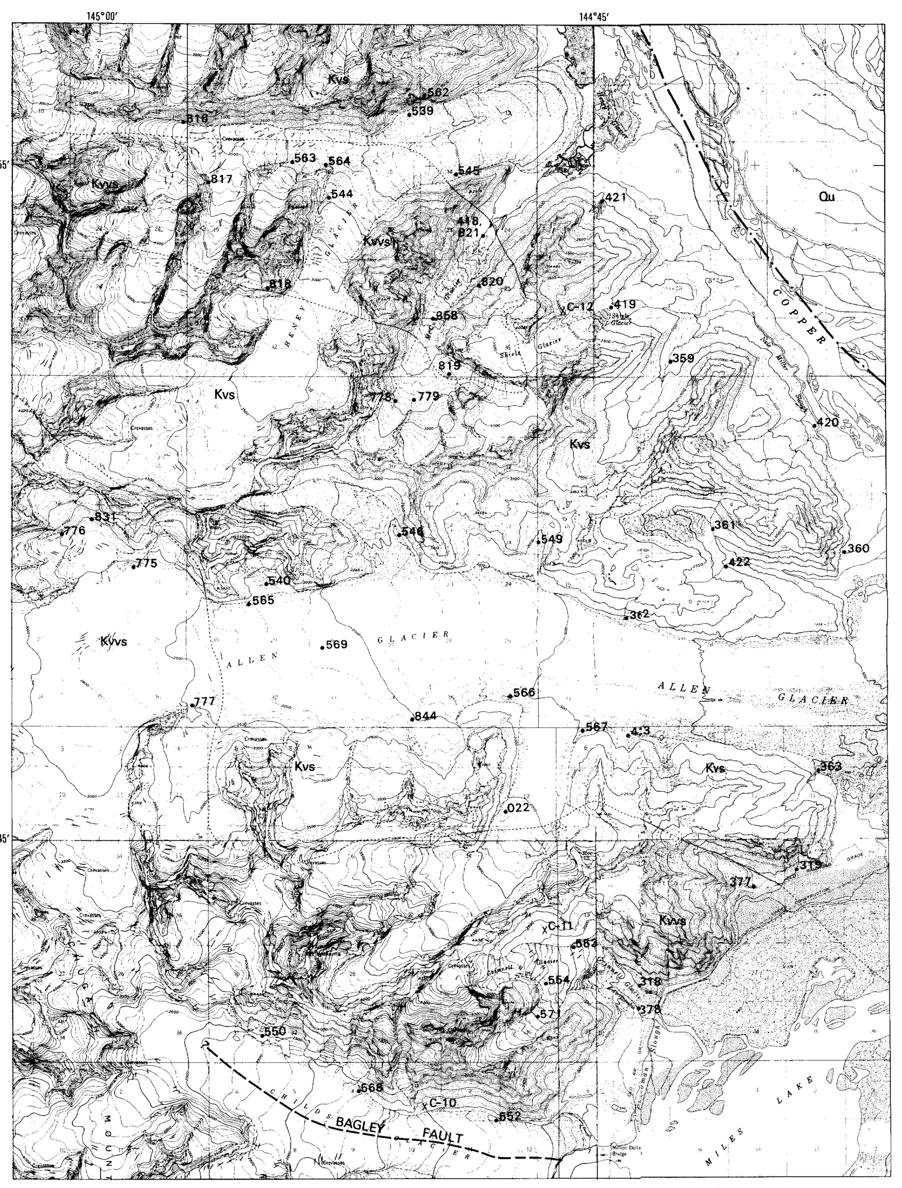

Figure 11. MAP SHOWING SAMPLE SITES BETWEEN HENEY GLACIER AND CHILDS GLACIER

Tabulation for figure 11

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
022	Ag(.5), Ba, Co(100), Mo, Ni, Pb, (Ca).	Mn(3,000), Ag, (Y).
318	Ca, Cu(200), Ni, Sc, (Fe, Mg, Co, Cr, V)	Co(700), Cu(2,000), (Fe).
319	Ca	(Ca).
358	Ba, (Fe, Ca)	Insufficient sample.
359	Ba, (Fe, Pb)	As, Pb(2,000).
360	Ba, (Fe, Cu, Ni, Pb)	Ag(500), As(20,000), Au(>1,000), Bi(100), Pb(1,000), (Co).
361	(Fe, B, Ba, Pb)	Ag, Au, (Bi).
362	(Fe, B, Ba, Co, Cu, Ni, Pb)	--
363	Fe, Ca, (Cu, Ni, V)	(Bi).
377	(Pb)	Ba, (Pb, Sr).
378	Fe, Mg(5), Ca(5), Cu(200), Sc, (Mn, Co, Cr, Ni, V, Zn).	Mg, Ca, Cu, (Bi).
418	Ca, Ni, (Fe, Mg, Co, Cr)	Fe, Bi, Cu(3,000).
419	Au(.65), (Ca, Ba)	Ag(1,000), As(10,000), Au(>1,000), B(1,000), Bi(50), Pb(3,000), (Fe, V, Y).
420	Ca, (Mg, Cr, Cu)	B, (V).
421	Ni, (Ba, Co, Cr, Cu)	Ag(30), Bi(50), Pb(3,000), (Be).
422	Pb, (Ba, Co, Ni, Zn)	Be, (Cr).
423	(Ba)	As, (Be).
539	--	Ca, B(2,000), (Mn, Bi, V).
540	As	Ag(100), Au(200).
544	Cu, (Mg, Ca, Co, Ni)	--
545	Cu, (Mg, Ca, Co, Ni	B(700).
546	--	--
549	--	B, (Be).
550	Cu, (Mg, Ca, Ni)	Cu, (Fe, Co, Ca, W).
552	Ca, Ni, (Fe, Mg, Co, Cu)	(Ca).
553	(Fe, Cu)	(Co, Cu).
554	Cu(200), (Ca, Ni)	(Ca, Mn, Cu).
562	Fe, Ca, Ni, (Mg, Ba, Co, Cu)	(Ca).
563	Fe, Mg(5), Ca(5), Cu(200), Ni, Sc, (Co, V).	Ag(200), Au(>1,000), V, Zn.
564	Fe, Mg(5), Ca(5), Co, Cu(500), Ni, Sc, (V).	(V).
565	(Ba, Zr, As)	Ag, Au(50), Be(7), (Ca, Co, W).
566	Co, Cu, Ni, (Ba, B, Zn)	Ag(50), Au(200), Be(7), W, (Ca).
567	(B, Ba, Zr)	--
568	Mg(5), Ca(5), Cu(300), Ni, Sc, (Fe, Co, Cr).	Mg, Mn, Cu, (Ca).
569	Fe, Mg(7), Ca(7), Co(100), Cu(300), Ni(150), Sc(70), (Cr, V).	Fe(50), Cu(1,500), Ni(500), (Bi).
571	Fe, Mg(5), Ca, Co, Cu(1,000), Ni, Sc, (Cr, V).	Cu(>20,000), (Ca).
775	Ba, La, (Fe, Ca, Mn)	B, Co(1,000), Pb(1,000), (Ni, Sn, Y, Th).
776	Mg(5), Ca(7), B(150), Co, Cr(500), Ni, Sc(70), V(500), (Fe, Mn, Cu).	B(>5,000), W(2,000), (V).
777	Mg(5), Ca(5), Co(100), Cr(700), Ni, Sc(70), V(500), (Fe, Mn, Cu).	Fe(50), B(1,000), Co(1,500), Cu, Ni(500), (Zn).
778	Ag, Ba(2,000), (Ti)	B(>5,000).
779	Mg(5), Ca(7), Co, Cr(500), Ni, Sc(70), V(500), (Fe, Mn).	Fe, Co(1,500), Ni(500), (Cu).
816	Cu, Mo(7), (Co, Ni)	--
817	(Mg, Ca, Cu, Ni)	--
818	Ba, Mo(10), (Ti)	(Ba, Sc, Sn).
819	Mo(7), (Ba)	Mo(10), (Ba, Sc, Sn).
820	Mo(7), Au(.16), (Cr)	Au, (B, Sc).
821	Mo	--
831	Ag, Ba(2,000), Sr, (Ca)	Mn(15,000), Ag(50), As, Au(200), B(2,000), Bi, Pb(3,000), Sn, V, Th, (Ca, Y).
844	Ba, (Ti)	Mn, (Ca, Be).

KNOWN MINERAL OCCURRENCES (Jansons and others, 1984)

C10 Disseminated pyrite and chalcopyrite in slates and greenstones.
C11 Pyrite, pyrrhotite, chalcopyrite, and malachite in shear zones.
C12 Massive pyrite and pyrrhotite and disseminated pyrite, pyrrhotite, galena, and sphalerite.

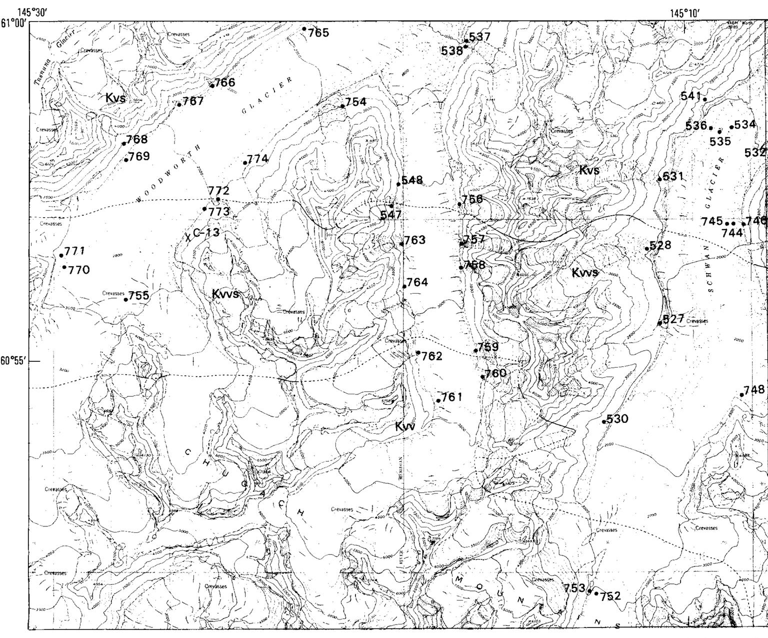

Figure 13. MAP SHOWING SAMPLE SITES WITHIN THE WOODWORTH GLACIER AND SCHWAN GLACIER WATERSHEDS

Tabulation for figure 13

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
182	Mg(5), Ca(5), Ni, (Cr, Cu, V)	Mg, V, (Ca, Mo).
527	--	Fe, Bi, Co(300), Cu(2,000), Ni, (Nb, Y).
528	(Cd)	Fe, Au, Bi, Co(300), Cu, (Ag, Ni).
530	(Cu)	B(700), Bi, (Fe, Co, Ni, V).
531	--	Ag, Au(50), Bi, Pb, W.
532	--	Ag, Au.
533	--	Ag(50), Au(200).
534	Au(.20)	Ag(50), Au(200), Bi, Nb, (V, Y).
535	(Ca, Cu)	Fe(50), Ag(100), Au(300), B(1,000), Bi(50), Co(2,000), Cu, Ni(300).
536	--	Bi, Co(1,500), Cu, Ni(300), (Fe).
537	--	Fe, Ca, Ag, Bi, Co(500), Cu(1,500), Ni, Pb(1,000).
538	(Cu)	Fe, Bi, Co(500), Cu(10,000), Ni, (Nb, Pb).
541	--	(Ca, V).
542	Cu(300), (Fe, Co, Cd)	--
543	--	Pb, (Bi, Cu).
547	Cu(200), Ni, Zn(250), Cd(.06), (Fe, Co)	Cu(2,000).
548	--	Ag(200), Au(700), (Co, Nb).
744	(Pb)	(Bi).
745	--	Sn, (Ag).
746	--	Sn, (Bi).
747	Ag, (Pb)	Co(300).
748	--	--
749	--	--
750	--	Insufficient sample.
751	Ag, Pb, Cd(.5), (Ba, As)	Ag, Au, Co(300), (Sn, Th).
752	--	(Sn).
753	(Ca)	--
755	Ca(5), (Mg, Co, Cr, Cu)	B(1,500).
756	Cd, (Pb)	Cu, Mo(10), (Sn).
757	(Cd)	Cu(1,500), Sn, (Bi).
758	(Pb)	(Cu).
759	(Cd)	--
760	(Co)	Au, Sn, (Ag, Nb).
761	Ca(5), Sc, (Cr)	Co(300), (Bi, Cu).
762	Ca(5), Cu, Sc, (Co)	Co(500), Cu(1,500), (Mg).
763	Cu(200), (Ca)	Cu, (B).
764	Ca(5), Cr(300), (Cu)	Sc, (Mg, B, Cr).
765	--	Sn.
767	Ag, (Pb)	--
768	--	Sn.
769	Ag, (Pb)	Ag(100), Au(200), (B, Co, Pb).
770	(Ca, Cr)	Mg, Cr.
771	(Ba)	Cu(5,000), Sc, (Ba, Sn).
772	--	Co(500), Ni, (Fe).
773	Ca	B(1,000).
774	(Ba, Cu, Pb)	Sn.

KNOWN MINERAL OCCURRENCES (Jansons and others, 1984)

C13 Quartz-chalcopyrite veinlets in greenstone.

EXPLANATION

Qu	**Surficial deposits**
Ty	**Yakataga Formation**
Tr	**Redwood Formation**
Tp	**Poul Creek Formation**
Tt	**Tokun Formation**
Tk	**Kulthieth Formation**
Tsu	**Stillwater Formation**
Tos	**Orca Group**—Sedimentary rocks undivided
Tov	**Orca Group**—Volcanic rocks undivided
Tovs	**Orca Group**—Interbedded sedimentary and volcanic rocks
Tots	Orca Group—Tuffaceous sedimentary rocks
Tg	**Granite and granodiorite**
Td	**Dacite**
Kvg	**Valdez Group**—Paragneiss
Kvs	**Valdez Group**—Sedimentary rocks, undivided
Kvv	**Valdez Group**—Volcanic rocks, undivided
Kvvs	**Valdez Group**—Interbedded sedimentary and volcanic rocks
Kvu	**Ultramafic rocks**

x C-34 **Mine or prospect**—Number refers to description in Jansons and others (1984)

• **Sample site (this survey)**

○ **NURE sample site**

Contact—Dotted where concealed

U/D ? **Fault**—Dashed and queried where probable; dotted where concealed; U, upthrown side, D, downthrown side; arrows indicate relative lateral movement

Lineament—Identified on aerial photograph but not on ground; possible fault

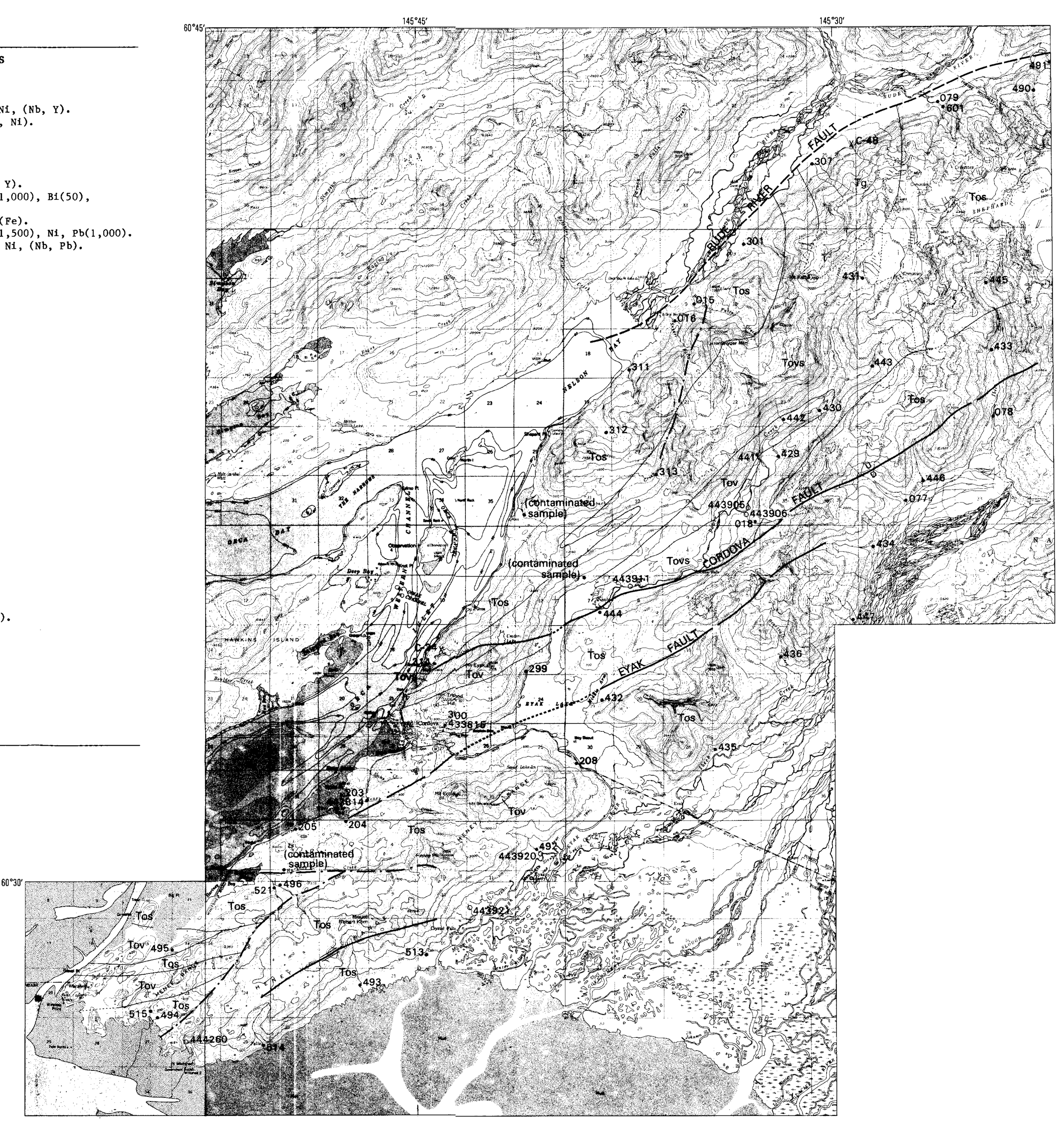

Figure 15. MAP SHOWING SAMPLE SITES BETWEEN SHEPHARD GLACIER AND THE HENEY RANGE

Tabulation for figure 15

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
015	Sc, (Fe, Ca, Mn, Ni, V)	--
016	Cr(500), Ni, Sc, (Fe, Ca, Cu, V)	Mg, (Cr).
018	Mn, Sc, (Fe, Ti, Ba, Cu)	Sn(300).
077	(Mg, Ba, Pb)	Be(10), (Ca, Mn).
078	Sc, (Mg, Ca, Ti, Co, Cr, Cu, V)	Ca(20).
079	Mg(5), Ca(5), Co, Cr, Y(300), Cu, Sc(70), (Fe, Ti, Ni, V).	Insufficient sample.
203	Fe, (Ba, Ni, V, Zn)	Mn, Nb(700), Sc(200), V, (Ca, La, Sr), Y(1,000).
204	Fe, Mn, Co, (Ni, Pb, V)	Mn(7,000), La, Nb(200), Sc(100), V, Y, (Ca, Sr).
205	Mn, (Co, V)	Mg(5), Pb(5,000), Sc, V, Th, (Mn, Nb, Sr).
208	Be(3), Sr, Zn(190), (Fe, Mn, B, Ba, Co, Ni, Pb, V).	Pb(10,000), Sb(300), Sn(70), (Mn).
299	Zn, (Mn, Co, Cu, Pb)	Ba, Pb(2,000), Sr(2,000), V.
300	Pb, Zn(190), (Mn,Co)	Nb, V, Th(700).
301	Fe, Mg(5), Ca(5), Co, Cr(500), Cu, Ni(150), Sc, (Mn, V).	Ca, B, Th, (Mg, Cr, Ni).
307	Ca, (Fe, Ba)	Nb, Th(1,500), (Be, Y).
311	Fe, Zn, (Ba, Co, Cu, Pb)	As, (Nb, Pb).
312	(Fe, Ca, Ba, Cu)	Nb, (Be, Sr).
313	Fe, Cu, (Mg, Ca, Mn, Ba, Co, Ni, Pb)	B(1,000), Ni, (Ca, Be, Nb) .
314	Fe, Mn, (B, Ba, Co, Cu, Ni)	B(2,000), Ba, Nb, Ni, Pb, (Fe, Bc, Co), Sr(2,000), (Th).
429	Ag(.5), (Fe, Ba, Cu, Pb)	Be, (Nb).
430	Ag(.5), Cu, Pb(700), Fe, Mg, Ba, Co).	Fe, Ba, Be, Ni(300), Pb, Sr(2,000), (Ag, Co, Cu, Nb).
431	Ca, Zr(500), (Fe, Mg, Co, Cu, Ni, V)	(Ca).
432	Fe, Cu, Pb, (Mg, Ba, Co, Ni, V)	Insufficient sample.
433	(Cu)	Cu, (Ca, V).
434	(B)	Ba, (Fe, Nb).
435	Pb(100), Zn, (Fe, B, Ba, Cu, As)	Cu, (V).
436	(Fe, B, Ba, Cu, Ni, V)	Ba, Th.
441	Cu, (Fe, Mn, Co, Ni, Pb)	Ba, (Bi, Nb).
442	Fe, Ca(5), Co, Cu, Ni, Sc, (Mg, V)	Ba.
443	Fe, Ca, Cu, Pb, (Mg, Co, Ni, V)	Cu(1,500), Pb, Zn(1,500), (Ca, Bi, V).
444	Mn, Cu, (Fe, Co, Ni, Pb, V, Zn, Cd)	B(1,000), Be.
445	Fe, Mg(5), Ca, Cu, Sc, (Co, Ni, V)	Ca, Cu, (Be, V).
446	Y, (Fe, Mn, Ba, Cu, Ni, Pb)	Ba.
447	Pb, (Fe, Mn, B, Ba, Cu, Ni, As)	Ba, Be, V, (Mn, B, Nb).
490	(Ba)	W, Th(1,000).
491	Cu(300), (Ba)	Ba, Be, Bi, Mo(200), Pb(1,000), (Fe, Co, Nb, Ni, Sr, V).
492	(B)	Insufficient sample.
493	(Cu)	Be.
494	(Cd)	(V).
495	(Cu)	Ag, Ba.
496	--	(Ba).
513	Cu, Ni, Zn(190), (Fe, Co)	--
514	(Fe, Co, Cu, Ni)	Ba, Zn, (Be).
515	Mn(5,000), Co, (Fe, B, Cu, Ni)	Cr(1,000), (Be, V).
521	Zn(220), Cd, (Pb)	--
601	Fe, Ca(5), Ni(100), Sc, (Mg, Co, Cu)	Ca, Cu, Ni, (Mg, Bi, Co, V).
648	Fe, Mg(5), Ca(5), Co, La, Ni, Sc, Pb, (Mn, Ba, Cr, Cu, V, Zr).	Mg(7), Ca, Cr(1,500), Ni, V, Th, (Mn).

NURE SEDIMENT ANOMALIES

443814 Al(88,250), Cs(4.5), Fe, K(22,440), Rb(97), V, Zn(245).
443815 Co(32), Mn(2,521), Zn(231).
443905 Cu, Pb(30), Co(31), Cs, Mn, Zn.
443906 Cu(93), (Ni), Pb(30), Co, Mn, Zn.
443911 Au(.4), Cs(5.0), Rb(105).
443920 Rb, Zn.
443921 Ni, Yb, Zn(212).
444260 Al, Cl(1,674), K(22,720), Mg(19,070), Na(37,050), V, Zn(211).

KNOWN MINERAL OCCURRENCES (Jansons and others, 1984)

C34 Chalcocite, chalcopyrite, pyrrhotite, malachite, and native copper in quartz-epidote veins in shear zones.

NOTE

Elements in parentheses show concentrations at the 90th percentile level; all other elements listed exceed the 90th percentile. All listed concentrations exceed the 95th percentile (all values in ppm except for Fe, Ca, and Mg which are given in percent). Leader (--), no anomalous data

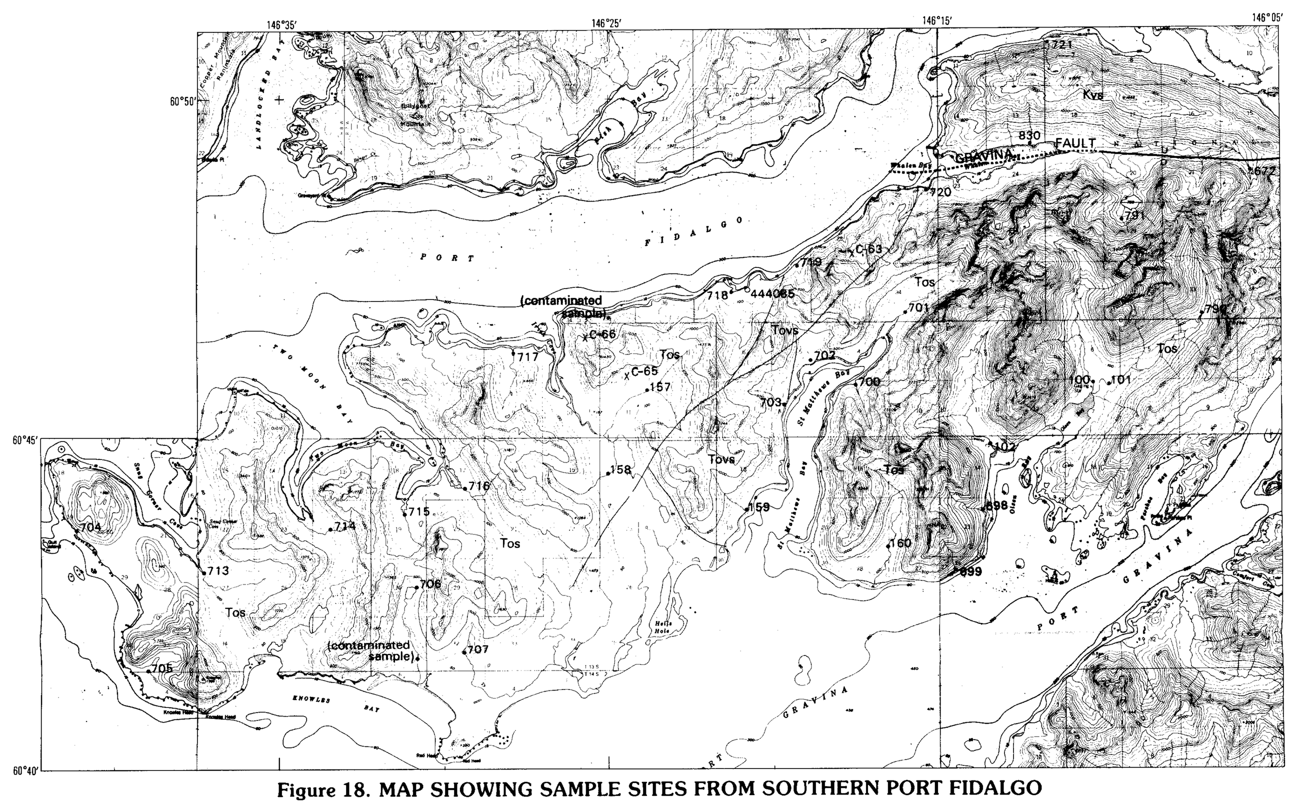

Figure 18. MAP SHOWING SAMPLE SITES FROM SOUTHERN PORT FIDALGO

Tabulation for figure 18

SAMPLE SITE	SEDIMENT ANOMALIES	CONCENTRATE ANOMALIES
100	(Ba)	Mn, La, (Mg, V).
101	--	Insufficient sample.
102	(Ba)	Insufficient sample.
157	Cr(300), Mo(5), Sc, Zn, (Mg, Mn, Co, Ni).	Mg, Cr(1,000).
158	Mn(>5,000), Co(100), Mo(5), Pb, (Fe).	Mg(3), Mn, Cr.
159	Mg(5), Ca, Cr(500), Sc(70), Zn(240), (Ni).	Mg, Cr(700).
160	Mo, (Ba, Pb)	(Mn, Cr, La).
672	--	Ag, Be(7).
698	--	(Sn).
699	(Cu, Cd)	--
700	--	Ag(50), As, Au(50), Cr, Pb(2,000), Sn(50), (Bi).
701	(As)	As.
702	Zn(190), Cd(1.0), As(40), (Mn)	(Mg).
703	--	Au, B(700), Th.
704	Mn(5,000), Zn(190), Cd(.7)	Sn(200).
705	Mn(5,000), Cd(.5), As(40), (Co, Zn)	Sn.
706	As(50)	--
707	(Cd)	--
713	Mn(5,000), Cd(.5), As(45), (Co)	Cr, (Pb, Th).
714	--	Mo, (Th).
715	Ag(10), Mo, (Mn)	Sn(200).
716	Mn(5,000), Cd, As(60)	Pb.
717	Mn(5,000), (Co)	--
718	Zn(190), Cd(1.0), (Mn, Co, Cu, As)	Cr(500), Pb, (Sn).
719	Zn(170), Cd(.7), (Co)	Sn.
720	Zn, (Co)	--
721	Cd, As(50)	(Cr).
790	Ag, Ba(2,000), (Ti, B, As)	Insufficient sample.
791	Ba(2,000), Sr(1,000), As(40)	Mn, B(1,500).
830	Mn, B(200), Ba, (Co, Pb, V, Zn, Cd)	Insufficient sample.

NURE SEDIMENT ANOMALIES

444085 Cu(296), W(15), As, Au(.41), Co(39), Cr(192), Fe(90,940), Sc, V(329).

KNOWN MINERAL OCCURRENCES (Jansons and others, 1984)

C63 Massive chalcopyrite, pyrrhotite, and pyrite in metasedimentary and metavolcanic rocks.
C65 Massive chalcopyrite, pyrite, sphalerite, and pyrrhotite in metasedimentary rocks.
C66 Massive chalcopyrite, pyrite, sphalerite, and pyrrhotite in metasedimentary rocks.

Geology modified from Winkler and Plafker (1981) and Nelson and others (1985)

SCALE 1:125 000

2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS

CONTOUR INTERVAL 100 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAPS AND TABULATIONS OF AREAS WITH GEOCHEMICALLY ANOMALOUS SAMPLES (FIGURES 10–18), CORDOVA AND MIDDLETON ISLAND 1° × 3° QUADRANGLES , ALASKA