

Appendix 3.2. Gold Properties and Analytical Results for HMCs Derived from Silts

Table A-3.2(i) Samples for MI separation, mounting and point counting under UP C7 050. Except where noted, these have 2 mineral counts (gravel & silt HMCs) and 3 INAA results (std silts + both HMCs).

Field No.	MI?	Silt Lab#	Notes
86JPW46S	y	6S	
86JPW55S	y	16S	
86JPW61S	y	23S	
86JPW67S	y	29S	
86JPW68S	y	30S	
86JPW69S	y	31S	
86JPW73S	y	36S	
86JPW74S	y	37S	
86JPW79S	y	42S	
86JPW80S	y	43S	
86JPW84S	y	48S	
86JPW105S	y	69S	
86JPW123S	y	88S	
86JPW129S	y	Tungbulk	
86JPW133S	y	98S	
86JPW145S	y	110S	
86JPW165S	y	Nah bulk	
86JPW187S	y	155S	
86JPW200S	y	168S	
86JPW205S	y	173S	
86JPW207S	y	175S	
86JPW210S	y	180S	
86JPW212S	y	182S	
86JPW213S	y	183S	
86JPW217S	y	187S	
86JPW234S	y	206S	
86JPW237S	y	209S	
86JPW238S	y	210S	
86JPW241S	y	213S	
86JPW251S	y	224S	
86JPW258S	y	232S	
86JPW262S	y	236S	
86JPW268S	y	242S	
86JPW273S	y	247S	
86JPW283S	y	259S	
86JPW284S	y	260S	Sand lab# (capsules Bondar)
87JPW4S	done		
87JPW5S	y		
87JPW6S	y	5S	done
87JPW7S	y	6S	JP707
87JPW19S	y	16S	JP721
87JPW24S	y	21S	JP727
87JPW40S	y	34S	JP746
87JPW41S	y	36S	JP747
87JPW45S	y	40S	JP751
87JPW46S	y	41S	JP752
87JPW49S	y	45S	JP756
87JPW51S	y	47S	done
87JPW56S	y	52S	JP763
87JPW61S	y	60S	done
87JPW66S	y	65S	done
87JPW68S	y	67S	JP777
87JPW70S	y	69S	done
87JPW76S	y	76S	done

Note 1: after a representative heavy mineral slide was made, HMCs were re-combined with the relatively light “heavy” minerals that were removed by MI from the tabled HMCs before submission for INAA analysis

Note 2: magnetic fraction removed before MI, stays out for INAA

Table A-3.2(ii). Descriptive terms for gold grains.

GRAIN SHAPES

Pristine

- undamaged primary shapes with smooth surfaces;
- fine wires, fracture fillings, thin angular flakes & blebs;
- clean grain moulds retaining shapes of other minerals;
- crystals (although some may be authigenic in soils);
- if abundant, may indicate short glacial transport.

Curled

- primary shapes visible, but edges and wires bent;
- grain moulds preserved in protected areas;
- may indicate intermediate glacial transport.

Rounded

- primary shapes destroyed
- grains have well rounded outlines
- surfaces are porous and scaly, some are striated;
- indicate long transport or recycling.

SURFACE TEXTURES

Smooth

- bright in reflected light;
- roughness near 0.1 micron under SEM;
- only seen on primary surfaces.

Grain moulds

- molds of gangue minerals in gold;
- grains were broken or weathered out;
- probably held sulphides or carbonates;
- only seen on pristine or curled grains.

Striated

- striae 1.0 to 0.1 microns across;
- sets of crosscutting striae common;
- seen on curled and rounded grains;
- some are damage from sampling and sample processing;
- most prove glacial transport.

Porous

- fine pores, about 0.1 micron in diameter;
- found only on scaly, rounded grains;
- only penetrate silver-depleted rims of grains produced during leaching of silver by groundwater or soil water
- penetrate older textures, e.g. striae;
- indicates a period of weathering, usually postglacial.

Table A-3.2(iii). Gold grains recuperated at shaking table; <177 µm fraction

Sample Number	# Au Grains	Long (µm)	Inter. (µm)	Short (µm)	Cailleux index ^a	Comments
86JPW125S	1	220	140	30	182	flattened, pitted
86JPW237S	1	350	260	100	286	irregular, semi polished
86JPW239S	1	330	170	110	182	irregular, pitted
	2	240	120	70	167	pitted, upturned edges
86JPW242S	1b	380	280	280	368	rounded, pitted
	2b	310	280	200	129	irregular, upturned edges
	3	220	200	160	182	irregular, pitted
	4	340	230	180	147	very irregular
	5	200	180	100	100	very irregular
	6	340	260	340	176	subrounded, pitted
	7c	160	90	50	250	irregular, pitted
86JPW243S	1	280	180	100	214	irregular, pitted
	2d	120	110	60	167	very irregular, beated edges
	3	160	100	60	312	subrounded, pitted
	4	220	200	140	227	Subrounded
	5	160	140	120	500	rounded, pitted
	6	240	120	70	125	very irregular, appears as 2 grains fused together
86JPW244S	1	180	120	60	333	subrounded, pitted
	2	280	160	100	71	very irregular
	3	140	100	70	179	irregular, pitted
	4	240	140	50	208	pitted, subrounded edges
	5	170	80	60	118	Irregular
	6	160	120	100	313	subrounded, pitted
	7	250	120	80	120	elongated, pitted
	8	240	130	120	208	elongated, pitted
	9	160	110	150	250	Subrounded
	10	140	110	50	286	Subrounded
	11d	120	80	50	333	subrounded, pitted
	12	140	130	50	357	subrounded, pitted
	13	160	160	80	250	Irregular
	14	220	160	160	182	Irregular
	15	210	160	70	190	flattened, tabular
	16	200	60	40	150	elongated, sausage shaped
	17	220	100	80	182	elongated, pitted
86JPW249S	1	260	160	100	154	Irregular
	2	250	160	70	200	irregular, pitted
	3	160	100	80	250	subrounded
	4	240	200	60	167	tabular, pitted
	5	210	120	70	190	square shaped
	6	200	100	70	200	irregular
	7	240	200	120	167	subrounded, pitted
	8	200	180	70	200	tabular, pitted
	9d	170	80	50	176	Irregular
	10	200	120	80	150	Irregular
	11	220	200	150	182	square shaped
86JPW276S	1	260	220	170	308	rounded, pitted
	2b	300	290	240	333	rounded
	3	280	260	220	286	rounded, pitted
86JPW279S	1	130	100	60	308	subrounded
	2c	170	160	130	412	rounded, pitted
87JPW60S	1	140	130	50	143	beaten edges, pitted

^a $le = 2000R/L$; where R = radius of the curvature of the most pointed part of the grain, and L = length of the grain (Sphere : $le = 1000$).

^b gold grains recovered from the 177-250 µm fraction.

^c gold grains recovered from the 250-850 µm fraction.

^d grains recovered from batea concentrate.

Table A-3.2(iv). List of mineral codes used in point counting heavy minerals.

MINERAL	ABV	Variant
Clinopyroxene	DI	diopside
Orthopyroxene	HY	hyperstene
	BZ	bronzite
Garnet	Gr	rounded
	Ga	fractured
	Ge	other
Epidote	Er	rounded
	Ep	fractured
	Ea	allanite
Hematite	He	irregular
	Hr	rounded
	Hi	botryoidal
	Ht	earthy
Goethite	Go	red (irregular shaped grains)
	Gy	yellow (irregular shaped grains)
	Gb	botryoidal (all colours)
	Gp	after pyrite (complete replacement)
Pyrite	Py	goethite covered (irregular shaped grains)
	Pf	fresh (irregular shaped grains)
	Pr	botryoidal (all colours)
	Pm	microfossil (pyrite replacement)
	Pe	euhedral (includes goethite-covered and fresh)
Siderite	Sx	x-tal aggregate
	Sd	massive
Hornblende	Hg	green
	Hb	brown
Rutile	Ru	red
	Rb	black
	Ro	orange
Chloritoid	CD	
Leucpxene	LE	
Ilmenite	IM	
Chromite	CR	
Titanite	SP	
Staurolite	ST	
Kyanite	KY	
Barite	BA	
Scheelite	SH	
Monazite	MZ	
Zircon	ZI	angular or euhedral
	ZR	rounded (undivided if only 1)
Unknown	UK	

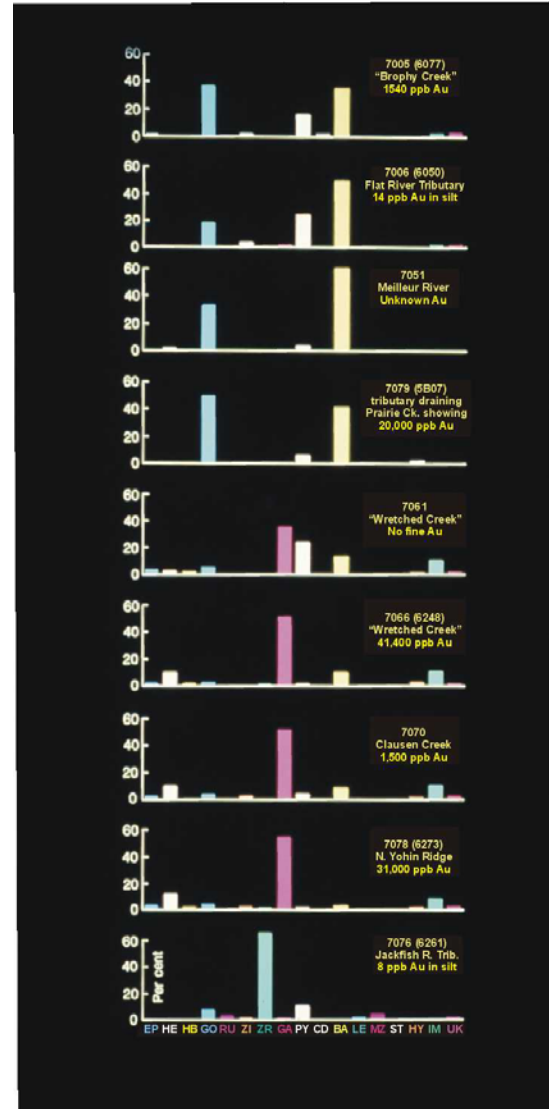


Figure A-3.2(i). Histograms of 300-grain counts of selected HMCs from stream pebbly sands yielding anomalous gold or other metallotects of interest. Data are in Table A-3.2(v). Mineral abbreviations are explained in Table A-3.2(ii). Numbers in brackets are of previous samples at these sites.

Table A-3.2(v). Heavy mineral analysis (% abundance), s.g.³ 3.3, 300 grain count, Araldite mount (n = 1.57), from gravel (H) and silt (S) HMCs. Heavy mineral abbreviations explained in Table A-3.2(iv).

Sample	DI	HY	BZ	Gr	Ga	Ge	Er	Ep	Ea	He	Hr	Hi	Ht	Go	Gy	Gb	Gp	Py	Pf	Pr	Pm	Pe	Sx	Sd	Hg	Hb	Ru	Rb	Ro	CD	LE	IM	CR	SP	ST	KY	BA	SH	MZ	ZI	UK	
86JPW46H-1	8.7	2	0	0	2.7	0	0	0.3	0	0	0	0	0	48	25.7	0.3	0.3	0.7	0	0	0	0	0.3	0	0	0	0	0	0	0	0	1.3	0	1.7	0	0	0.7	0.3	0	0	7	
86JPW46H-2	19.3	0	0	0	1	0	0	0	0	0	0	0	0	43	28.3	3.3	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	0	0	3		
86JPW46S-1	11	5.3	0	0	2	0	0	0	0	0	0	0	0	43	29.7	0.3	0.7	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0.3	0	0	0	0.7	0	0	3.7	
86JPW46S-2	17.7	1	0	0	0.3	0	0	0.7	0	0	0	0	0	41	26.7	2	1	2.3	0	0.3	0	0.3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1.3	0.3	0	1.7	2.3	
86JPW55H-1	1.7	5	0	0	13.7	0	0	0.7	0	2.7	0	0	0	27.3	4.7	0.3	4	18.3	0.7	0	0	0.7	0	0	0	0	0	0	0	0	1.7	2.3	0	0	0	0	0	2.3	0	2.3	5.3	
86JPW55H-2	0	1.7	0	0	7.7	0	0	1.3	0	0.7	0	0	0	26	4.3	0.7	5.7	21	0.7	0.3	0	4.3	0	0	0	0	0	0	0	0.3	1	2.3	0.3	0	0	0	8.7	4	0	3.7	5.3	
86JPW55S	0	1	0	1.7	0.3	0	0	0	0	1.3	0	0	0	16	4	0	7	49.7	1.3	0.3	0	14.7	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	2.3		
86JPW61H	0	0	0	0.3	0.3	0	0	0.3	0	0.3	0	0	0	17.3	4.3	0.3	9.7	48.7	1	1	0	10.3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	1		
86JPW61S	0	0	0	0	0	0	0	0	0	0	0	0	0	29.7	8.7	0.3	11.3	29	0.3	1	0	10	0	0	0	0	0	0	0	0	1.3	0	0	0	0	6.3	0	0	0.7	1.3		
86JPW67H	0	0	0	0	0	0	0	0.3	0	0	0	0	0	30	18.7	0.3	10	12	0.3	0.7	0	1.7	0	0	0	0	0	0	0	0	0.3	0	0	0	0	24	0	0	0.3	1.3		
86JPW67S	0	0	0	0	0	0	0	0	0	0.3	0	0	0	29.7	23.7	3.3	3.3	15.3	0	1	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	16.7	0	0	0.3	2.3		
86JPW68H	0	0.7	0	0	0	0	0	0	0	0	0	0	0	23.7	3.7	0.3	10	16	0.7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	37.7	0	0	0	0.3		
86JPW68S	0	0	0	0	0	0	0	0	0	0	0	0	0	25	7.7	0	5.3	26	1.3	0.7	0	6.7	0	0	0	0	0	0	0	0	2	0	0	0	0	23.7	0	0	0	1.7		
86JPW69H	0	0	0	0	0	0	0	0	0	0	0	0	0	33	14	0	7	13.3	2.7	0	0	3.3	0	0	0	0	0	0	0	0	0.7	1	0	0	0	23	0	0	0	2		
86JPW69S	0	0	0	0	0	0	0	0	0	0.3	0	0	0	38	21.7	0	1	18	0	0	0	2	0	0	0	0	0	0	0	0	3	4	0	0	0	9	0	0	0.3	2.7		
86JPW73H	0	0	0	0	1.7	0	0	0.7	3.7	1.3	0	0	0	6.3	1.7	0	2.3	57.3	3.3	0.3	0	10.7	0	0	0	0.3	0	0	0	0	0.7	0.7	0	0.7	0	0	4.7	0	0	1	2.7	
86JPW73S	0.3	0.7	0	0.3	2	0	0	0.3	1.3	0.7	0	0	0	13.7	4	0	2.7	52.7	5.3	0	0	6	0	0	0	0	0	0	0	0	0.3	1	0	0	0	3.7	0	0	1.3	3.7		
86JPW74H	0	0.7	0	0	5.7	0	0.3	7.7	42	0	0	0	0	20.7	8.7	0	4	0.7	0.3	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	4.3	0	0	0.7	3	
86JPW74S	0.3	4.3	0	0.3	11.3	0	0	16.3	26.3	0	0	0	0	17	8.3	0	2	1.3	0.3	0	0	0.3	0	0	0	0	0	0	0	0	0.3	1	0	0	0	0	0.3	0	0	5	5	
86JPW79H	0	0	0	0	0	0	0	0.3	0	5.3	0	0	0	37.7	13	0	14.7	8.7	0	0	0	2.3	0	0	0	0	0	0	0	0	1.7	1	0	0	0	0	12.3	0	0	2.7	0.3	
86JPW79S	0.3	3	0	0	10.3	0	1	14	30	0.3	0	0	0	13	10.7	0.3	2.3	0.3	0.7	0	0	0	0	0	0.3	0	0.3	0	0	0	2.7	0	1.7	0	0	0.7	0	0	4.3	3.7		
86JPW80H	0	0	0	0	0.3	0	0	0.7	0.3	0.7	0	0	0	23.9	9.6	0.3	11.3	4.7	0	0	0	1	0	0	0	0	0	0	0	0	1.7	0	0	0	0	44.5	0	0	0	0.7		
86JPW80S	0	0.7	0	0	0.3	0	1.3	0.7	0.3	0.7	0	0	0	29.3	15.3	0	8.3	16	0.3	0	0	4.7	0	0	0	0	0	0	0	0	0.7	0	0.3	0	0	20	0	0	0	1		
86JPW84H	0	0	0	0	0	0	0	0.3	0	0	0	0	0	6.3	8.3	0	2	3.3	0	0	0	0.7	0	0	0	0	0	0	0	0	0.3	0	0	0	0	76.7	0	0	0	2		
86JPW84S	0	0	0	0	0	0	0	0	0	0	0	0	0	13	10.7	0	1	2.3	0	0	0	2.3	0	0	0	0.3	0	0	0	0	1	0	0	0	0	66.3	0	0	0	3		
86JPW105H	0	0	0	0	0	0	0	0	0	5.3	0.3	0	0	25.7	28.7	0.3	7	1.7	0.7	0	0	0.3	0	0	0	0	0	0	0	0	0.7	1.3	0	0	0	0	26.3	0	0	0	1.7	
86JPW105S	0	0.3	0	0	0	0	0.3	0.7	0	11	0.3	0	0	15	10	0	6.7	1	1.3	0	0	0.3	0	0	0	0	0	0	0	0	12.3	2.3	0	0	0	0	28	0	0	6.7	3.7	
86JPW123H	0	0.3	0	0	0.7	0	0	1	3.3	1	0	0	0	6.3	2.3	0	1	0	0.3	0	0	0.7	0	0	1	0	0	0	0	0	0	0.3	0	0	0	0	80	0	0	1	0.7	
86JPW123S	0.3	0.3	0	0	1	0	0	1.3	4.7	0.7	0	0	0	0.3	0.7	0	1	3	1.7	0	0	0.3	0	0	4	0.7	0	0	0	0	0	0.7	0	0	0	0	75.7	0	0	1.3	2.3	
86JPW133H	1.3	0.3	0	0	1	0	0.3	16	5.7	0	0	0	0	7	11.3	0	0	0	0.3	0	0	0	0	0	1.3	0	0	0	0	0	0	30.7	0	17	0	0	4.7	0	0	0.3	2.7	
86JPW133S	0.3	3	0	0	0.3	0	0	8	6.7	0	0	0	0	1.3	2.7	0	0	0.7	2	0	0	0.3	0	0	2	2	0	0	0	0.3	24	0	20.3	0	0	22.3	0	0	0.7	3		
86JPW145H	0	2	0	0	12	0	0	1.7	2.3	0	0	0	0	19.7	22	0.3	1	0.3	0	0	0	0	0	0	0	0	0	0.3	0.3	0	0	0.3	6.3	0	4.3	0	0	14.3	0	0.3	7.7	4.7
86JPW145S	0	0	0	0	11.7	0	0.7	1.7	2.7	0	0	0	0	17.7	23	0	1	1	0.3	0	0	0	0	0	0	0	1	0.7	0	0	0.3	5.3	0	1.7	0	0	24.3	0	0.3	3.7	3	
86JPW187H	0	0	0	0	0	0	0	0	0	0	0	0	0	56	28	2	5	2	0	1.7	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	3	0.7	0	0	1.3		
86JPW187S	0	0	0	0	0.3	0	0	0	0	0.3	0	0																														

Table A-3.2(v). Heavy mineral analysis (% abundance), s.g.³ 3.3, 300 grain count, Araldite mount (n = 1.57), from gravel (H) and silt (S) HMCs. Heavy mineral abbreviations explained in Table A-3.2(iv).

Sample	DI	HY	BZ	Gr	Ga	Ge	Er	Ep	Ea	He	Hr	Hi	Ht	Go	Gy	Gb	Gp	Py	Pf	Pr	Pm	Pe	Sx	Sd	Hg	Hb	Ru	Rb	Ro	CD	LE	IM	CR	SP	ST	KY	BA	SH	MZ	ZI	UK	
86JPW210H	0.3	1.7	0	1.3	42	0	0	1.7	0	2.7	1.3	0	0	4	7.7	0	0.7	7	0.3	1	0	1	0	0	0	1	0	0	0	0	1.3	13.3	0	0.3	0	0	8	0.7	0	1.3	1.3	
86JPW210S	0.7	5.3	0	0	10.3	0	0.3	3	0	1.7	0	0	0	6	17.7	0.3	0.7	7.3	2.3	9.7	0	0.7	0.3	3.7	0.7	0.7	0	0	0	0	2	9	0	0	0	0	10.7	0	0	3.7	3.3	
86JPW212H	0.7	7	0	2	36.5	0	1	2.3	0	5	1	0	0	5.6	8.3	0	1	3	0	0.7	0	0.3	0	0	1.3	1	0	0	0	0	1.7	10.6	0.3	1.3	0	0	6	0	0	2.3	0.7	
86JPW212S	0	14.7	0	0.3	15	0	0	3	0	2.7	1	0	0	6	11.3	1.3	0.7	11.3	0	0.7	0	0.3	0.3	6.3	3	0.7	0.7	0	0	0	2.7	11.3	0	0.7	0	0	2.7	0	0	0.7	2.7	
86JPW213H	0.3	2.3	0	1.7	25	0	1	2.3	0	3.7	1	0	0	27.7	8.3	1.7	2	3.3	0	0.7	0	0	0	2.7	1	0.7	0.3	0	0	0	0	9.7	0	0.7	0	0	1.7	0	0	0.3	2	
86JPW213S	0.7	9.3	0	0	12.7	0	0.7	4	0	1.3	0	0	0	5.3	9.7	0.3	0.7	0.7	0.7	0	0	0.7	0	2	3	1.7	0	0	0	2	13	0	0	0	0	23.7	0	0	4	4		
86JPW217H	0	3	0	0.3	8.3	0	0	0.3	0	4.7	1.3	0	0	29.7	10	1.3	16.3	1.7	0	0.3	0	0.7	0	0	0.3	0.3	0	0	0.3	0	1	8.3	0	1	0	0.3	2.7	0	0	5	2.7	
86JPW217S	0.7	4.3	0	0	17.3	0	0	2.3	0	0.7	0	0	0	11	13.7	1.3	3.3	13	1.3	6	0	1	0	7	1	0.3	0	0	0	0	0.3	5	0.7	0.7	0	0	4.7	0	0	1.3	3	
86JPW234H	0	0.3	0	0	3.7	0	0	0.3	0	1	0	0	0	39.3	13.7	0.7	17.3	1	0.3	0.7	0	0.7	0	0	0	0	0	0	0	0	2	0.3	0	0	0	17.7	0	0	0.7	0.3		
86JPW234S	0	0	0	0	2	0	0	1	0.3	0.7	0	0	0	44.3	17.7	0.7	9.7	4	0.3	0.7	0	0.3	0	0.3	0.3	0	0	0	0	1	1	0	0	0	0	13	0	0	0	2.7		
86JPW237H	0.3	2.7	0	4.7	50.3	0	0.7	2.7	0	9.3	1.3	0	0	1.7	4.7	0.3	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	1	14.3	0.3	0.7	0	0	2.7	0	0	0	1.7	
86JPW237S	0	6	0	0	22.7	0	0.3	3.3	0.3	5	1.3	0	0	1.7	5.3	0	0	5.7	0.7	3.7	0	1.3	0	4.7	1.7	1.3	0	0	0.3	0	1	10.3	1	0.3	0	0	11.7	0	0	7.3	3	
86JPW238H	0.7	3.3	0	3.3	43	0	0	4.3	0.7	5.7	1.7	0	0.7	2	4.7	0	0	0	0	1	0	0	0	1	0.7	0	0	0	0	0	0.7	15.7	4.7	0.3	0	0	4.3	0	0	0.3	1.3	
86JPW238S	0	12	0	0.3	31.6	0	0.3	5	0	4	0.7	0	1.3	2	2.3	0.3	0	1.3	0	0.3	0	0	0	1	0.7	1.3	0	0	0	5	15	1.7	0.7	1	0	6	0	0	2.7	3.3		
86JPW241H	0	1.3	0	4.3	50.7	0	1	1	0	5.7	2.7	0	2	4.7	3.7	0	0	2	0	0	0	0	0	0	0.7	0.3	0.3	0	0	0	0.7	11	3.7	0	0	0	3.3	0	0	0	1	
86JPW241S	1.3	5.7	0.3	0.7	36	0	0	2.3	0.3	4	0.3	0	0.7	3.7	6.3	0.7	0.3	3.7	0	0.7	0	0	0	3.7	1.3	0.7	0	0	0.3	0	2.7	8.3	3	0.7	0.3	0	7.7	0	0	2.3	2	
86JPW251H	0	3.7	0.3	1	36	0	0.7	2	0	6.7	2	0	0.3	4	10	0.3	0.7	2.3	0.3	2.7	0	0	0	0	1.3	0.7	0	0	0.3	0	0.7	11.7	2	0.3	0	0	8	0	0	1.3	0.7	
86JPW251S	0.7	1	0	0	7.7	0	0	2	0.3	0.3	0	0	0	4	10.3	0.3	0	8	0.3	4.3	0	0	0	1.7	0.7	0	0	0	1.3	0	8.7	9.3	1.3	0	0	0	7	0	1	26	3.7	
86JPW258H	0	0	0	0.3	1.7	0	0	0.7	0	0	0	0	0	1.7	6.6	1.3	0	10.6	1.3	37.5	0	0	0.3	0.7	0	0	0	0	0.7	0	3.3	0.7	0	0	0	0	20.6	0	1.3	9.3	1	
86JPW258S	0	0	0	0	1	0	0	0.3	0	0	0	0	0	5.3	6	3	0.3	2.7	0.7	23	0	1	1.3	2.7	0	0	1.3	0	1.3	0	5.7	3	0.3	0	0	0	24.7	0	0.7	13.7	2	
86JPW262H	0	0	0	0	0.3	0	0	0	0	0	0	0	0	24.7	24.3	1.7	2.3	23.7	1.7	16.3	0	0.7	0.3	0	0	0	1	0	0.3	0	0	0	0	0	0	0	2.3	0	0	0.3	0	
86JPW262S	0	0	0	0	0	0	0	0.3	0	0	0	0	0	10	3	0.3	0.3	6.3	0	4	0	2.3	0.3	0	0	0	2.3	0	0.7	0	15.3	2.3	0	0	0	0	1.7	0	1.7	45.7	3.3	
86JPW268H	0	0	0	0	0	0	0	0	0	0	0	0.3	0	8.3	6.3	1.7	0	19.7	1	45.7	0	0.3	0	0.3	0	0	0	0	0	0	0.3	0.7	0	0	0	0	13.3	0	0	1.3	0.7	
86JPW268S	0	0	0	0	0	0	0	0	0	0	0	0	0	7.7	1	0	0	14	0.7	6.7	0	1.3	0	0	0	0	0.3	0.3	0	1	0	10.7	1.7	0	0	0	0	9	0	1.3	40.7	3.7
*86JPW273H	0	1.7	0	3.3	44.3	0	0.7	0.7	0	4	2.3	0	2	3.3	7	0	0.3	3	0	0.7	0	0	0	0	1	0	0.3	0	0	0	0.7	13	1	0.3	0.7	0	6	0	0	0	3.7	
86JPW273S	2.3	2.7	0	1.3	25.3	0	0	3	0.3	2.3	0.3	0	0.3	3.7	3.3	0.3	0	2.7	0	0.3	0	0.7	0	9	0.3	0	0.3	0	0.3	0	2.7	18	0	0.3	0	0	8.3	0	0.3	7.3	4	
86JPW284H	0	0	0	0	0	0	0	0	0	1	0	0	0	54.7	15.7	9.7	17	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0.7	0	0	0	0.7
86JPW284S	0	0	0	0	0	0	0	0.3	0	2.3	0	0	0	48.7	23	11	12.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0.7	0	0	0	0.7	
*87JPW5H-1	0	0		0	0.3			0.3	1.3	0.3	0	0		35.3	2.3			15.7	0.3								0	0		1.7	0	2.3			0		35.3		0	2	2.7	
87JPW5H-2	0	0	0	0	0	0	0	0	2	0.3	0	0	0	24	13.3	0.7	4.7	4.3	0.7	1	0	0.3	0	0	0.3	0.3	0	0	0	0	0	2.3	0.3	0	0	0	43.7	0	0	0.7	1	
87JPW5S	0	0	0	0	0	0	0	0.3	0.7	0.7	0	0	0	21.3	11	0.3	1.7	12.7	0.3	0.3	0	1	0	0	0	0	0	0	0	0	1.3	3	0	0	0	0	44.7	0	0	0.7	0	
*87JPW6H-1	0	0		0	1			0	0.3	0.3	0	0		16.3	2			22.7	1.7							0	0		0.3	0.3	1.3			0		49.3		0	3.3	1		
87JPW6H-2	0	0.3	0	0	16	0	0	1.7	1.3	0.3	0	0	0	14.7	11	0.3	0.7	12.3	0	1.3	0	1	0	0	0	0	0	0	0	0	0.7	2.3	0	0	0	0	31.7	0	0	0.7	3.7	
87JPW6S	0	0.7	0	0	17.7	0	0	0	1.7	0	0	0	0	14	10.7	0.3	0.7	18.7	1.3	1.3	0	1	0	0	0.7	0.3	0	0	0	0	0.3	3	0	0	0	0	21.3	0	0.3	4	2	
87JPW7H	0.7	2.7	0	0	10.7	0	0.3	5.3	0.7	0	0	0	0	8.7	25	0.7	0.3	6.7	0.3	3	0	0	0	1.3	1	0.3	0	0	0	0	1	3	0	0	0	0	25	0	0	0.7	2.7	
87JPW7S	0	1	0	0	7.7	0	0	0.7	0	0	0	0	0	15	27.3	0.7	0.7	3	1.3	0	0	1	0	0	1	0.3	0.3	0	0	0	0.3	2.7	0	0	0	0	32.7	0	0	1	3.3	
87JPW19H	0	0	0	0	0.7	0	0	0.7	0	0.7	0	0	1	37.7	10.7	3	21	4	0	0	0	1.3	0	0	0	0	0	0	0	1	0.3	0	0	0	0	16.3	0	0	1.3	0.3		
87JPW19S	0	0	0	0	0.7	0	0	0	0	0.3	0	0	0.7	43.3	20.7	10.3	10	2.7	0.3	0.3	0	1	0	0	0	0	0	0	0	0.7	0.7	0.3	0	0	0	7.3	0	0	0	0.7		
87JPW24H	0.3	3	0	0	9.7	0	0	0.7	0	0	0	0	0.3	3.3	5	0.3	0.7	1	0.3	0	0	0	0	0	0	0	0.3	0	0	0	0.7	56.3	1.7	0.7	0	0	0.3	10	0	1.7	3.7	
87JPW24S	0.3	3.3	0	1	21.7	0	0	1.3	0	0	0	0	0.3	2.7	9	0	0.7	1	2	0	0	0.7	0	0	0.3	0.7	0	0	0	0	0.7	20	0.3	0.3	0	0	16	5	0	8	4.7	
87JPW40H	2.3	9	0	0	49.7	0	0	1	1.7	0	0	0	0	1.7	0.7	0	0.3	0.7	0	0	0	0.3	0	0.3	0	0.7	0	0	0	0	0.3	4	0	1.3	0	0	16.7	3	0	1.3	5	

Table A-3.2(v). Heavy mineral analysis (% abundance), s.g.³ 3.3, 300 grain count, Araldite mount (n = 1.57), from gravel (H) and silt (S) HMCs. Heavy mineral abbreviations explained in Table A-3.2(iv).

Sample	DI	HY	BZ	Gr	Ga	Ge	Er	Ep	Ea	He	Hr	Hi	Ht	Go	Gy	Gb	Gp	Py	Pf	Pr	Pm	Pe	Sx	Sd	Hg	Hb	Ru	Rb	Ro	CD	LE	IM	CR	SP	ST	KY	BA	SH	MZ	ZI	UK
87JPW40S	1.7	17	0	0.3	56.3	0	0	1	0.7	0	0	0	0	0	1.7	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	3.3	0	1	0	0	8.3	0.3	0	1.7	6.3
87JPW41H	1.7	3	0	0	0.3	0	0.3	5.7	37	15.7	0	0	0.3	3	2	0	0.7	0	0	0	0	0.3	0	0	3	0	0	0	0	0	1	5.3	0.3	0	0	0	1.7	1.7	0	14.3	2.7
87JPW41S	0.3	7.7	0	0	1	0	0	14.3	28	4	0	0	0	0	2	0	0	0.3	0	0	0	0	0	0	9.3	0.7	0	0	0	0	1.7	4.3	0	0	0	0	7.7	0	0	16.3	2.3
87JPW45H	0	0	0	0	0	0	1	0.3	1.7	19	0	0	0	25.3	12.7	0.3	7.3	2.7	0	0	0	1.7	0	0.3	0	0	0	0	0	9.3	2.3	1.7	0.3	0	0	10	0	0	2.7	1.3	
87JPW45S	0	0	0	0	0.3	0	0	0.7	0	3.7	0.3	0	0	12.7	8.3	1	1	1.3	1	0	0	0.3	0	0	1	1	0	0	0	8.3	7	0.3	0	0	0	45	0	0	5.7	1	
87JPW46H	0	0	0	0	0	0	0	0	0	0.7	0	0	0.3	18.9	8.3	0	0	9	0.7	3.7	0	0.7	0	0	0	0	0.3	0	0	0	1	0	0	0	0	53.8	0	0	1.7	0.7	
87JPW46S	0	0	0	0	0	0	0	0	0	1.3	0	0	0.7	23.3	27.6	1.7	0.3	2	1.7	6.3	0	0	0	0	0	0	0	0	0	0	1.3	0	0	0	0	31.9	0	0	0	1.7	
87JPW49H	0	0.7	0	0	0	0	0	0	0	0.7	0	0	0	10	10.3	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0	0	0	0	70.7	0	0	4.3	0.7	
87JPW49S	0	0.3	0	0	0	0	0	0	0.7	0	0	0	0	2.7	4.7	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	1.7	0	0	0	0	0	89	0	0	0	0.7	
*87JPW51H-1	0	0		0	0.3			0	0	1	0	0		31.7	1.3			2.3	1								0	0		0	0	1			0		60		0	1	0.3
87JPW51H-2	0	0	0	0	0	0	0	0	0	0	0	0	0	15.3	8.6	0.3	3.7	3	0	0.3	0	2.7	0	0	0	0	0	0	0	1.7	0	0	0	0	0	62.1	0	0	2	0	
87JPW51S	0	0	0	0	0.3	0	0	0	0	0.3	0	0	0	29	20.3	0.7	1	2.7	0	0.3	0	0.3	0	0	0	0.3	0	0	0	1.7	0.3	0	0	0	0	42.3	0	0	0.3	0	
87JPW56H	0	0	0	0	0.7	0	0	0	0	0	0	0	0	13.3	5.7	0.7	0.7	6	0.3	1.7	0	2.7	0	0	0	0	0	0	0.3	0	4.3	1.7	0.3	0	0	0	43	0	0	16.7	2
87JPW56S	0	0.3	0	0	0.3	0	0	0	0	0	0	0	0	23.3	15.3	1.7	0.3	7.3	0.3	1	0	1.3	0	0	0	0	0.3	0	0	5	1.7	0	0	0	0	26.3	0	0.7	12.3	2.3	
87JPW61H-1	0	1		0.7	34.7			3	0.3	2.3	0.7	0		4.3	0.3			9.3	11	3.3						0.3	0		0	0.7	11			0		13.7		0	0	1.7	
87JPW61H-2	0.7	3.7	0	0.7	27	0	0.3	3	0.3	2.3	0	0	0.3	0.7	5	0	0	8.7	4	9.3	0	0	0	0.3	3.3	0	0	0	0	1	12.7	0.3	0.7	0	0	11.7	0	0	2.3	1.7	
87JPW61S	1	7	0	0.3	10	0	0	5	0	2	0	0	0	4	13	1.3	0	11	4	13.7	0	0.3	0	5	0.7	0.3	0	0	0	1.3	4.7	0	0.7	0	0	12	0	0	0.3	2.3	
*87JPW66H-1	0.3	3		0.3	54.3			2	0.3	7.3	2.7	0		2.7	0			0	0	1							0.3	0		0.3	0.3	11			0.3		10		0	1.7	1
87JPW66H-2	2.3	5.3	0	2.7	41.3	0	0	1	0	3.3	2.7	0	2	1.7	1	0.3	0.3	0.3	0	2.7	0	0.3	0	1	1.7	0.7	0.3	0	0	1.3	12	0.3	0	0	0	12.3	0	0	1.3	1.7	
87JPW66S	0.7	6	0	0.3	30.3	0	0.3	5	0	3	0.3	0	1.3	1.7	4	0	0.3	1.3	2.3	3.3	0	0	0	0.3	1	0.3	0.7	0	0	1.7	12.7	0	0.3	0	0	18.7	0	0.3	2.3	1.3	
87JPW68H	0.7	2.7	0	2	19.3	0	0	0.3	0	11.6	4.3	0	0.7	2	2.7	0	0	6.6	1	6	0	0	0	1.7	0.3	0.7	0	0	0	1.3	15.3	0	0	0	0	15.6	0	0	5	0	
87JPW68S	0.7	2.7	0	0.3	7	0	0	3	0	2.3	0	0	0	4	3.7	2.7	0.3	11.7	1.7	12.7	0	1	0.3	2.3	1.7	0.3	0	0	0.3	0	5.7	4.3	0	0	0	0	27.7	0	0	1	2.7
*87JPW70H-1	0	1.3		0.3	51			3	0	7.7	1.7	1		4	0			4	0.3	0						0	0		0.3	0.7	10.7			0.7		8.7		0	2.6	2	
87JPW70H-2	1	3.3	0	3.7	41	0	0.7	3	0.3	3	0.3	0	0	3.3	4.7	0.3	0.3	3	0	2	0	0.3	0	0.3	0.7	0	0	0	0	0.7	12.3	0.3	0.3	0	0	12.3	0	0	0.7	2	
87JPW70S	0.3	6.3	0	0.3	21.7	0	0	8.7	0	0.7	0	0	0.7	7.3	9	1.7	0.7	4.3	0.3	2.3	0.3	0	0.3	1.3	2.7	1.7	0	0	0.3	0	3.3	10	0.7	1.7	0	0	9	0	0	1.7	2.7
*87JPW76H-1	0	0		0	1.3			0	0	0.3	0	0		8	0.3			9.7	1.3							4	0		0	1.7	0.3			0		0		5	66.7	1	
87JPW76H-2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	11.3	1	1.7	0	0.7	0	0	0	0	0.3	0	0.7	0	4.7	1.3	0.7	0	0	0	4.7	0	1	63.7	2.3
87JPW76S	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3.3	0.7	0.7	9	16.3	1.3	0	3	0	0	0	1	0.3	0	1	0	12.7	1.7	0.7	0	0	0	4.7	0	0.3	35	1.3

H-1 and H-2 sample numbers reflect sequential duplicate point counts (H1 being reconnaissance), demonstrating rough but not precise consistency of results.

* results illustrated in histogram (Fig. A-3.2(i)).

T

Table A-3.2(vi) – INAA Results for Heavy Mineral Concentrates from Silts – Elements Na to Tb

Field	Zo	Easting	Northing	Na	Sc	Cr	Fe	Co	Ni	Zn	As	Se	Br	Rb	Zr	Mo	Ag	Cd	Sn	Sb	Te	Cs	Ba
Num	ne	NAD27	NAD27	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.05	0.5	50	0.5	10	20	200	1	10	1	10	500	2	5	10	200	0.2	20	1	100
6048	9	565000	6846000	0.53	10	74	3.6	30	93	540	182	-10	-5	100	570	23	-5	-10	-200	18	-42	7	7700
6050	9	570200	6843000	0.75	9.3	-50	4.6	30	41	400	177	-10	-5	79	-500	-5	-5	-10	-200	4.2	-20	5	4300
6053	9	554000	6879600	-0.15	19	140	7.4	28	-20	-200	362	-10	-5	120	2300	-6	-5	-10	-200	3.6	-20	2	620
6056	9	561000	6868500	0.37	12	70	4.6	26	-40	-200	363	-10	-5	25	3700	-9	-5	-10	-200	13	-49	2	4900
6057	9	564100	6864500	0.44	19	170	9.4	36	110	430	173	-22	-5	48	2600	21	-5	-24	-440	15	-78	6	86900
6072	9	564200	6895800	-0.44	28	-140	8.3	43	-70	970	100	47	-5	47	8100	-15	-11	-26	-480	16	-81	3	11400
6077	9	571000	6901500	-0.17	17	56	6	30	49	250	147	-10	-5	47	3500	-8	-5	-10	-200	5.3	-45	3	30100
6085	9	567000	6880800	-0.26	31	180	9	37	-47	-200	138	-10	-5	46	6200	-9	-5	-10	-200	2.9	-50	3	6700
6088	9	573500	6884100	0.42	22	130	5.6	13	-20	-200	96	-10	-5	59	3000	-7	-5	-10	-200	2.4	-20	-1	3600
6090	9	590000	6906100	-0.44	23	-150	11	100	-74	-200	663	-23	7	-45	12000	-17	-13	-29	-550	30.7	-94	-2	550
6096	9	573900	6884800	0.24	13	140	9.4	41	82	550	86	-10	-5	75	770	9	-5	-10	-200	12	-43	8	7700
6113	9	594200	6879200	0.13	3	66	4.2	12	74	1300	39	19	8	32	-500	17	-5	14	-200	16	-41	-1	63500
6116	9	587000	6878000	1	33	87	5.6	25	57	600	38	-10	-5	48	4300	22	-5	26	-200	17	-43	2	17800
6117	9	587200	6877500	0.46	18	110	7	22	86	1400	64	-10	-5	38	920	16	-5	26	-200	18	-45	2	29400
6121	9	577200	6878500	0.69	10	97	4.9	18	82	690	150	-10	-5	54	760	33	-5	13	-200	11	-20	2	8700
6122	9	594000	6876500	-0.21	6.6	-110	4.9	31	-20	250	90	-10	5	-24	3300	-10	-5	-20	-200	10	-59	-1	64400
6124	9	590800	6867000	0.85	18	110	6.1	25	110	840	344	-10	-5	51	1700	-8	-5	-10	-200	15	-48	4	13600
6125	9	596200	6869000	-2.8	49	200	11	350	-65	-200	511	-23	-22	-39	52300	-25	-14	-77	-470	12	-120	-2	10500
6126	9	583500	6868900	-0.18	9.2	-50	4.3	28	31	270	25	-10	-5	35	930	7	-5	-10	-200	3.3	-20	2	1600
6127	9	578200	6866500	-3	69	240	6.6	23	-57	-200	52	-10	-20	-38	36000	-26	-12	-67	-490	2.8	-97	-1	8200
6128	9	572000	6867300	1.6	63.8	160	5.5	-10	-56	-200	-22	-10	-16	-38	26000	-26	-12	-65	-200	-1	-94	-1	410
6130	9	588000	6862200	0.83	20	110	5.8	23	100	540	738	-10	-5	64	3000	-11	-5	-10	-200	17	-61	3	20500
6131	9	588100	6862000	1.2	18	-50	4.7	13	-48	670	47	-10	-5	82	2500	-12	-5	-10	-200	16	-56	8	13800
6136	9	590800	6850900	1.9	5.1	-50	1.2	-10	-20	-200	4	-10	-5	130	1100	-5	-5	-10	-200	0.6	-20	10	140
6140	9	564500	6910200	0.11	3.4	-50	2.9	12	-20	300	27	-10	5	10	-500	3	-5	-10	-200	7.2	-20	-1	1700
6143	9	559500	6905200	0.46	10	57	4.5	-10	130	450	38	-10	-5	47	-500	23	-5	-10	-200	7.5	-41	5	16500
6149	9	625200	6795800	1.5	37	-50	4.3	17	-51	-200	-5	-21	-5	56	8200	-11	-5	-10	-200	0.6	-53	2	-100
6159	9	556500	6917500	-0.42	20	220	8.6	65	72	-200	105	-10	7	110	6500	-12	-5	-21	-200	7.4	-60	3	740
6160	9	556500	6918000	-0.16	5.8	110	5.6	29	29	280	89	-10	7	-10	2400	-6	-5	-10	-200	14	-20	-1	590
6163	9	560000	6915100	0.12	2.8	-50	3.4	14	24	-200	39	-10	7	-10	-500	5	-5	-10	-200	9	-20	-1	-100
6166	10	473500	6763300	-0.23	13	220	5.1	21	-42	370	40	-10	-5	-24	1900	9	-5	-10	-200	4.1	-45	-1	11300
6167	10	404000	6762100	-0.05	14	360	2.6	-10	-20	-200	15	-10	-5	-10	11000	7	-5	-10	-200	1.1	-20	-1	1700
6168	10	404100	6762000	-0.05	21	510	4.1	-10	-20	280	28	-10	-5	-10	14000	-6	5	-10	-200	1.7	-20	-1	1300
6169	10	405200	6754500	-0.05	15	460	2.5	-10	-20	260	22	-10	-5	-10	15000	-6	-5	-10	-200	1	-20	-1	1600
6170	10	404400	6770500	-0.05	22	560	6	18	45	340	33	-10	-5	-10	12000	-6	-5	15	-200	1.6	-20	-1	3700
6171	10	404700	6770600	-0.05	17	490	1.5	-10	-20	-200	11	-10	-5	-10	11000	-5	-5	-10	-200	1.4	-20	-1	620
6172	10	404500	6772200	-0.13	14	400	4.9	17	47	430	34	-10	-5	-10	8000	8	-5	-10	-200	2.3	-20	-1	8000
6173	10	404500	6775000	-0.11	12	230	3.9	16	24	240	28	-10	-5	-10	4900	6	-5	-10	-200	2.3	-20	-1	6600
6174	10	402200	6778100	0.16	9.3	130	3.8	16	71	410	56	-10	-5	-10	5400	13	-5	-10	-200	2.6	-20	-1	8100
6175	10	393000	6778000	-0.16	9.4	96	7.9	35	110	1100	66	-10	7	-10	1400	29	-5	-10	-200	10	-43	2	42300
6176	10	397000	6779000	-0.22	8.8	110	6.6	26	81	620	63	-10	-5	-10	970	62	-5	-10	-200	7.9	-45	-1	21500
6177	10	401800	6778000	-0.12	9.4	90	6.2	23	74	550	44	11	-5	18	1100	33	-5	-10	-200	8.2	-20	1	27700
6178	10	400700	6777700	-0.12	10	130	6.5	18	77	520	33	-10	-5	38	1600	24	-5	-10	-200	5.1	-20	1	24300
6179	10	403200	6782000	0.29	7.7	130	5.2	22	52	460	45	-10	-5	-10	1400	17	-5	-21	-200	3	-60	2	69800
6180	10	408500	6783900	-0.05	17	300	4.7	-10	29	-200	24	-10	-5	-10	6600	7	-5	-10	-200	1.6	-20	-1	2900
6181	10	408200	6784000	0.11	6.9	130	2.9	10	26	210	20	-10	-5	11	2100	4	-5	-10	-200	1.4	-20	1	2000

T

Table A-3.2(vi) – INAA Results for Heavy Mineral Concentrates from Silts – Elements Na to Tb

Field	Zo	Easting	Northing	Na	Sc	Cr	Fe	Co	Ni	Zn	As	Se	Br	Rb	Zr	Mo	Ag	Cd	Sn	Sb	Te	Cs	Ba
Num	ne	NAD27	NAD27	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.05	0.5	50	0.5	10	20	200	1	10	1	10	500	2	5	10	200	0.2	20	1	100
6182	10	412200	6777000	-0.05	30	600	3.8	-10	46	-200	16	-10	-5	-10	22000	-6	-5	-10	-200	1.8	-20	-1	-100
6183	10	422300	6776600	-0.11	19	580	3.8	14	55	-200	20	-10	-5	-10	16000	-7	-5	-10	-200	1.7	-20	-1	860
6184	10	482000	6769200	0.14	2.6	110	3.6	-10	53	450	77	-10	-5	-10	-500	20	-5	-10	-200	8.3	-45	-1	54900
6185	10	389800	6782000	-0.17	7.9	130	4.4	16	51	320	28	-10	5	19	3200	13	-5	-10	-200	4.1	-20	-1	9400
6186	10	389500	6781800	-0.19	10	-50	8.6	29	35	990	57	-10	7	28	1800	24	-5	17	-200	6.7	-49	-1	70500
6188	10	402000	6780800	-0.12	10	-50	7.6	27	92	660	40	19	-5	21	1600	34	-5	-10	-200	8.9	-20	1	35000
6190	10	394000	6787600	-0.22	3.3	-50	2.2	-10	-20	-200	13	-10	-5	-10	980	14	-5	-10	-200	2.2	-20	-1	1100
6191	10	404000	6784600	-0.11	7.9	80	6.6	36	78	750	56	-10	-5	-10	790	28	-5	-10	-200	4.5	-20	2	29800
6192	10	402600	6787500	-0.12	2.7	-50	7.1	20	140	630	61	-10	-5	-10	720	31	-5	-10	-200	4.4	-47	-1	41700
6193	10	403000	6787500	-0.12	4.5	-50	3	-10	34	400	21	-10	-5	-10	-500	10	-5	-10	-200	1.7	-20	2	21300
6194	10	412000	6791400	-0.16	17	280	4.3	16	-20	260	32	-10	-5	-10	7100	9	-5	-10	-200	2.4	-20	-1	14300
6195	10	416000	6793500	-0.23	15	240	8.5	26	100	880	54	-10	-5	-22	6600	26	-5	-20	-200	7.6	-54	-1	34100
6196	10	408800	6799800	-0.27	7.4	83	5.6	21	-41	450	44	-10	-5	27	2100	-9	-5	-10	-200	4.3	-48	2	18000
6197	10	406000	6797800	0.14	1.6	-50	1.9	-10	29	220	27	-10	-5	-10	-500	15	-5	-10	-200	2.5	-20	-1	2000
6198	10	405200	6795500	0.3	2.3	67	2.4	-10	47	680	13	-10	-5	-10	-500	-9	-5	-10	-200	1.5	-42	-1	12400
6199	10	405000	6795600	-0.12	2.1	-50	2.4	-10	21	-200	33	-10	-5	11	720	15	-5	-10	-200	3.3	-20	-1	1500
6201	10	395200	6799500	0.11	1	-50	2.4	-10	25	-200	65	-10	-5	-10	-500	35	-5	-10	-200	2.2	-20	-1	280
6203	10	395500	6807000	-0.27	12	-50	4.7	12	-20	-200	34	-10	-5	-21	850	-7	-5	-10	-200	5.1	-20	-1	11900
6204	10	425000	6790000	-0.15	15	230	4.8	13	49	250	27	-10	-5	-10	4400	-6	-5	12	-200	0.9	-20	-1	2400
6208	10	416000	6842800	0.18	1.6	-50	4.6	-10	-20	770	30	-10	-5	-10	-500	22	-5	-10	-200	2.2	-20	-1	11700
6211	10	442100	6840800	0.42	46	640	13	36	-44	-200	27	-10	-5	-26	13000	-10	-5	-10	-200	1.9	-50	-1	15400
6215	10	439500	6829200	-0.26	42	460	12	32	-45	200	36	-10	-5	-23	8100	11	-5	-10	-200	2.7	-46	-1	13900
6216	10	462400	6834100	0.28	11	70	4.2	18	-20	-200	16	-10	-5	14	1100	7	-5	-10	-200	1.1	-20	-1	2900
6218	10	428800	6829800	-0.11	7.8	120	2.6	-10	-20	-200	9	-10	-5	-10	1800	-5	-5	-10	-200	0.9	-20	-1	640
6221	10	424000	6827900	0.21	1.4	-50	2.7	-10	-20	230	18	-10	-5	-10	-500	7	-5	-10	-200	0.8	-20	-1	1600
6222	10	423900	6828000	0.26	1	-50	1.4	-10	-20	400	11	-10	5	11	-500	-2	-5	-10	-200	1.1	-20	-1	1500
6223	10	430500	6816000	-0.05	2.1	-50	1.9	-10	35	250	20	-10	-5	-10	-500	18	-5	-10	-200	1.9	-20	-1	130
6224	10	435900	6813100	-0.11	2.4	-50	1.3	-10	-20	-200	7	-10	-5	-10	-500	9	-5	-10	-200	0.9	-20	-1	130
6225	10	463500	6832600	-0.22	27	310	6.3	19	-20	240	12	-10	-5	-10	6000	-8	-5	-10	-200	1.4	-20	-1	12200
6230	10	442200	6794000	0.18	7.2	64	3	-10	-20	290	20	-10	-5	-10	950	11	-5	-10	-200	1.5	-20	-1	5600
6231	10	422100	6794000	-0.12	1.8	-50	2.8	-10	24	860	29	-10	7	-10	850	18	-5	-10	-200	5.6	-20	-1	7800
6233	10	422100	6806000	0.17	1.2	-50	0.8	-10	-20	-200	9	-10	-5	-10	-500	4	-5	-10	-200	1.1	-20	-1	1200
6235	10	453500	6822000	0.44	30	320	11	24	42	490	41	-10	-5	-10	5900	-7	-5	-10	-200	2.4	-20	-1	8300
6236	10	460500	6813200	0.48	23	240	9.2	20	40	380	41	-10	-5	21	4900	-6	-5	-10	-200	1.9	-20	-1	7300
6239	10	458000	6808500	0.43	20	240	5.1	16	26	-200	18	-10	-5	20	3600	-5	-5	-10	-200	1.2	-20	-1	5300
6240	10	458000	6808100	0.46	40	560	10	22	-49	330	36	-10	-5	-26	12000	-11	-5	23	-200	2.8	-55	-1	22100
6242	10	462200	6824200	0.3	24	240	10	26	49	530	44	-10	-5	-10	4300	29	-5	-10	-200	3.7	-20	-1	14900
6243	10	461500	6823000	0.33	27	250	7.6	30	-20	260	27	-10	-5	29	5300	-7	-5	-10	-200	1.8	31	-1	9800
6244	10	447000	6790200	0.43	20	260	9.1	27	-20	310	60	-10	-5	-10	4400	11	-5	-10	-200	2.2	-20	1	6900
6246	10	441500	6787200	0.32	10	150	3.1	-10	-20	-200	11	-10	-5	12	2600	-2	-5	-10	-200	0.6	-20	-1	1900
6249	10	456800	6781500	-0.05	12	320	2.6	11	-20	-200	20	-10	-5	-10	8700	-5	-5	-10	-200	0.9	-20	-1	1700
6250	10	465000	6762500	-0.24	40	730	6	21	-20	250	24	-10	-5	-20	14000	-8	-5	-10	-200	1.8	-43	-1	3100
6261	10	431600	6766000	-0.2	41	1600	4	17	-48	-200	24	-10	-5	-21	44000	14	-5	-24	-200	2.7	-60	-1	2300
6265	10	426800	6758000	-0.05	11	370	2.5	-10	25	-200	8	-10	-5	13	11000	-5	-5	-10	-200	0.9	-20	-1	630
6267	10	424500	6755500	-0.11	15	370	3	-10	-20	-200	15	-10	-5	-10	7100	-4	-5	-10	-200	1	-20	-1	330
6274	10	452000	6793000	-0.51	22	230	10	47	-56	420	73	-10	-5	-33	7000	-12	-5	-25	-200	7.3	-64	2	30900

T

Table A-3.2(vi) – INAA Results for Heavy Mineral Concentrates from Silts – Elements Na to Tb

Field Num	Zo ne	Easting NAD27	Northing NAD27	Na %	Sc ppm	Cr ppm	Fe %	Co ppm	Ni ppm	Zn ppm	As ppm	Se ppm	Br ppm	Rb	Zr ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Cs ppm	Ba ppm
				0.05	0.5	50	0.5	10	20	200	1	10	1	10	500	2	5	10	200	0.2	20	1	100
6275	10	436000	6796800	-0.16	4.6	84	4.2	-10	47	1700	91	-10	-5	-10	1000	29	-5	-10	-200	12	-20	-1	2300
6276	10	425400	6790500	0.33	13	99	5.2	16	35	280	19	-10	-5	28	1400	-5	-5	-10	-200	1.2	-20	-1	3300
6277	10	424800	6791500	-0.2	6	70	3.5	12	-20	380	34	-10	-5	-10	1500	12	-5	-10	-200	3	-20	-1	17500
6278	10	415000	6798100	-0.33	3.3	70	1.1	-10	-42	-200	8	-10	-5	25	-500	-10	-5	-10	-200	0.3	-44	1	1900
6279	10	406500	6806000	0.15	1.9	-50	2.7	-10	-20	-200	18	-10	-5	-10	-500	14	-5	-10	-200	1.8	-20	-1	6600
5031	9	519750	6912850	0.68	15	-50	5.1	35	-61	310	29	-10	-5	120	-500	-14	-13	-23	-200	1	-53	6	510
5034	9	512280	6932300	-0.37	9	-100	2.9	23	90	650	23	-10	-5	71	-500	25	-5	-22	-200	3.6	-57	4	4500
5036	9	517600	6929400	-0.42	8.9	180	2.6	23	77	660	27	-10	-5	110	-500	-14	-12	-24	-200	4.2	-62	7	3300
5038	9	528500	6925600	-0.37	10	88	4.8	69	-76	940	36	34	-5	97	-500	22	-12	-25	-200	5	-67	7	3300
5039	9	523900	6924600	-0.11	2.8	-50	0.7	-10	-20	220	14	-10	6	22	-500	5	-5	-10	-200	1.6	-20	1	1300
7001	9	564250	6893000	-0.17	6.5	92	26	15	-41	380	54	-10	-5	41	910	82	-5	20	-200	3.9	-46	8	22700
7003	9	563500	6894900	0.33	9.2	140	16	34	250	1200	62	17	-5	82	-500	170	-5	-10	-200	13	-20	6	22100
7004	9	564200	6895800	-0.63	15	-110	5.3	-10	120	960	78	-10	5	37	3800	-13	-5	-25	-200	12	-63	4	8200
7008	9	569000	6848250	0.76	11	100	5.4	29	100	250	71	-10	-5	160	-500	-7	-5	-10	-200	7.1	61	10	1300
7011	9	569750	6852250	-0.38	32	180	8.9	27	73	580	33	-10	-5	85	2300	-11	-10	-22	-200	3.8	-54	9	1900
7012	9	554000	6901000	-0.69	29	320	10	24	-64	-200	44	-22	-5	53	12000	-18	-12	-31	-480	9.4	-84	3	20300
7014	9	553500	6902000	1	27	150	3	13	-53	-200	-8	-10	-5	71	8600	-14	-10	-23	-200	1.6	-59	4	7200
7015	9	556500	6901000	0.48	20	180	5.2	16	49	260	21	-10	-5	45	2100	16	-5	-10	-200	4.4	-20	4	3100
7016	9	559200	6905500	-2.7	26	380	12	31	-47	550	111	-10	-15	-30	82000	-17	-50	-51	-200	16	-74	4	12800
7017	9	559500	6905200	-0.3	8.8	86	4.8	33	85	610	217	-10	-5	-21	950	-7	-5	-10	-200	19	-42	2	2300
7018	9	561200	6907000	-0.16	6.9	110	12	64	75	-200	168	-10	6	-10	1300	13	-5	-10	-200	20.2	-20	-1	14000
7020	9	565000	6910000	-0.31	8.5	150	7	24	42	290	108	-10	-5	-20	1700	-8	7	-10	-200	21	-42	2	11100
7021	9	568000	6844250	-0.32	13	160	14	45	110	650	300	-10	-5	84	2000	-8	-5	-10	-200	26.2	-47	8	3500
7022	9	565000	6845500	0.92	12	110	4.6	26	100	530	230	-10	-5	65	530	17	-5	-10	-200	19	-43	6	10800
7023	9	558500	6851750	0.67	11	-50	3.3	-10	48	-200	62	-10	-5	52	1600	-8	-5	-10	-200	6.8	-44	4	7900
7026	9	571500	6901500	-0.29	15	53	7.7	37	54	300	186	-10	-5	48	2800	-8	-5	-10	-200	7.8	-20	3	29100
7030	9	579250	6888500	1.2	7.6	76	1.6	-10	-20	-200	8	-10	-5	62	680	-8	-5	-10	-200	0.8	-20	4	840
7031	9	579250	6888750	-0.85	35	330	3.5	-10	-74	-200	29	-22	-5	-47	16000	-19	-13	-35	-500	4.6	-87	-3	1400
7032	9	591250	6907250	-0.49	17	69	9.1	65	88	-200	535	-10	-5	-30	7400	-11	-5	-21	-200	23.6	-60	-1	-100
7033	9	591500	6907000	-0.39	10	-50	4.4	13	-20	-200	75	-10	5	-22	3300	-9	-5	-10	-200	6.9	-20	-1	290
7034	9	574250	6887500	0.33	11	97	12	55	160	1400	79	-10	-5	87	-500	14	-5	-20	-200	13	-51	9	52000
7035	9	574000	6887250	0.36	13	100	14	31	43	400	112	-10	-5	82	-500	-5	-5	-10	-200	19	-20	9	1500
7036	9	581750	6879750	-0.56	13	-250	3.2	-10	110	730	-13	-38	-5	-31	1700	42	-5	-50	-720	18	-130	3	>90000
7037	9	572500	6873000	0.88	57.2	110	6.3	-10	-57	310	28	-10	-5	-34	6200	-15	-11	-26	-200	2.1	-64	2	-100
7038	9	572750	6872750	0.34	25	83	5.8	31	47	-200	53	-10	-5	31	1300	-6	-5	-10	-200	2	-20	-1	300
7039	9	590750	6868200	1	19	81	6.1	16	64	660	329	-10	-5	71	1400	13	-5	-10	-200	15	-43	4	13300
7042	9	531250	6881750	-0.35	8	-230	5.9	21	130	2700	31	-34	-5	34	-500	43	-5	-50	-650	35.5	-120	3	>90000
7043	9	586500	6894750	-0.63	8.9	-110	2.9	25	60	-200	-8	-10	-5	53	1200	-12	-5	-28	-200	1.2	-61	2	38600
7044	9	591000	6891500	-0.47	6	-50	1.9	-10	-43	350	-6	-10	-5	34	2000	-10	-5	-10	-200	0.9	-43	-1	840
7047	10	387000	6773000	-0.27	11	-110	11	34	99	700	61	-10	-5	32	2300	21	-5	-24	-200	3.4	-57	-1	86500
7048	10	389200	6778000	-0.25	5.2	62	4.8	21	62	660	23	-10	-5	22	510	23	-5	-10	-200	4.2	-20	1	15500
7050	10	394700	6777750	-0.31	3.8	67	3.4	17	72	340	18	-10	-5	26	-500	26	-5	-10	-200	2.5	-20	-1	18300
7052	10	397000	6779500	-0.32	4.7	-50	3	-10	-20	440	27	-10	-5	-10	900	24	-5	-10	-200	3.8	-45	-1	12900
7053	10	399500	6775750	-0.17	11	210	7	28	59	380	41	-10	-5	12	3200	11	-5	-10	-200	1.9	-20	-1	21400
7054	10	399250	6776000	-0.26	9.4	92	10	27	69	490	46	14	-5	30	1300	27	-5	-10	-200	5.1	-20	2	22100
7055	10	403500	6768500	-0.31	27	770	4.1	13	-43	240	17	-10	-5	-22	13000	-10	-5	-10	-200	1.3	-51	-1	5700

Table A-3.2(vi) – INAA Results for Heavy Mineral Concentrates from Silts – Elements Na to Tb

Field	Zo	Easting	Northing	Na	Sc	Cr	Fe	Co	Ni	Zn	As	Se	Br	Rb	Zr	Mo	Ag	Cd	Sn	Sb	Te	Cs	Ba
Num	ne	NAD27	NAD27	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.05	0.5	50	0.5	10	20	200	1	10	1	10	500	2	5	10	200	0.2	20	1	100
7057	10	407500	6774750	-0.22	8.6	170	3.3	12	35	270	17	-10	-5	-10	4300	9	-5	-10	-200	1.5	-20	-1	3700
7058	10	442750	6839750	-0.26	9.1	-50	2.8	14	28	-200	12	-10	-5	18	1100	9	-5	-10	-200	1	-20	1	2400
7059	10	442500	6839750	0.54	36	500	8.8	22	64	290	17	-10	-5	19	7700	-8	-5	-10	-200	1.5	-20	-1	7600
7060	10	442750	6838500	-0.21	26	370	9	22	51	220	39	-10	-5	-10	5700	-7	-5	-10	-200	1.8	-20	2	9500
7062	10	447500	6818250	0.6	29	350	8.2	25	-20	-200	17	-10	-5	26	4700	-8	-5	-10	-200	1.2	-20	-1	7400
7063	10	448500	6813250	-0.45	35	530	13	36	120	760	66	-10	-5	-27	9300	-12	-5	-24	-200	2.5	-57	-1	11200
7064	10	449000	6813500	-0.52	42	370	12	28	58	370	29	-10	-5	-31	8000	-12	-10	-26	-200	1.4	-58	-1	19000
7065	10	450500	6810750	-0.36	33	340	8.2	20	-20	250	14	-10	-5	-21	5400	-9	-5	-10	-200	1.3	-41	-1	12500
7067	10	441500	6788000	-0.31	23	260	5.9	11	41	220	20	-10	-5	-20	3800	-8	-5	-10	-200	1.4	-20	-1	8300
7069	10	441000	6786750	-0.36	16	180	5.3	14	34	260	17	-10	-5	-20	1800	-9	-5	-10	-200	1.2	-20	1	4700
7071	10	442000	6787750	0.6	32	660	8.7	20	-46	330	38	-10	-5	28	13000	-10	-5	-22	-200	1.8	-50	-1	8800
7072	10	441500	6787500	-0.31	40	670	12	31	-42	470	45	-10	-5	-21	9900	-9	-5	-10	-200	2.3	-46	-1	12200
7073	10	438750	6783750	0.5	30	430	10	24	-43	440	36	-10	-5	-21	6500	-10	-5	-10	-200	1.7	-45	-1	8300
7074	10	429500	6768000	-0.17	24	610	1.5	-10	-20	-200	9	-10	-5	-10	22000	-8	-5	-10	-200	1.3	-43	-1	-100
7075	10	432000	6766250	-0.13	14	370	2.2	-10	-20	-200	14	12	-5	-10	16000	-7	-5	-10	-200	1.1	-20	-1	400
7077	10	433500	6765000	-0.18	14	630	0.9	-10	-20	-200	8	-10	-5	-10	12000	9	-5	-10	-200	1	-20	-1	420
7083	10	442000	6826000	-0.24	6.5	210	1.1	-10	-20	-200	7	-10	-5	-10	4200	-8	-5	-10	-200	1.5	-20	-1	720
7084	10	407000	6785750	-0.3	6.9	160	6.7	36	97	540	41	-10	-5	-10	1500	29	-5	-10	-200	5.8	-43	2	30600

Note: Table header includes element name, unit of measure, detection limit

Table A-3.2(vi) cont'd– INAA Results for Heavy Mineral Concentrates from Silts – Elements La to U and Mass

Field	Zo	Easting	Northing	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Ir	Au	Th	U	Mass
Num	ne	NAD27	NAD27	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	g
				5	10	0.2	2	1	5	0.5	2	1	2	100	5	0.5	0.5	0.01
6048	9	565000	6846000	190	310	24	-2	2	-5	1	15	3	57	-100	-13	28	19	15.69
6050	9	570200	6843000	94	170	12	-2	2	-5	0.8	12	2	67	-100	17	29	11	16.32
6053	9	554000	6879600	400	730	45	9	4	10	2.7	61	4	-6	-100	20	59.8	14	26.63
6056	9	561000	6868500	390	550	44	-2	4	11	-4	100	28	180	-100	-16	146	67.7	27.77
6057	9	564100	6864500	410	530	30	5	3	8	-5.8	81	10	150	-100	-24	133	130	27.64
6072	9	564200	6895800	1500	1620	96.1	-9	9	29	9.5	228	2	-12	-100	-27	379	80.9	27.39
6077	9	571000	6901500	340	570	39	7	5	16	3.5	84	4	-7	-100	-14	68.3	21	17.29
6085	9	567000	6880800	722	1120	58.8	9	7	27	5.7	170	10	49	-100	26	169	41	19.59
6088	9	573500	6884100	480	740	42	7	4	11	3.1	84	7	45	-100	-10	118	24	30.12
6090	9	590000	6906100	1220	1530	152	18	14	37	-9.3	310	7	-13	-100	46	284	68.4	25.54
6096	9	573900	6884800	200	340	25	-2	1	-5	-0.5	14	1	-7	-100	73	36	10	11.37
6113	9	594200	6879200	44	54	5.4	-2	-1	-5	0.8	3	-1	-2	-100	-13	4.7	6.7	30.39
6116	9	587000	6878000	400	550	45	7	4	13	3.7	110	3	31	-100	-14	86.6	32	28.13
6117	9	587200	6877500	380	520	29	-2	3	-5	1.8	24	1	-6	-100	-15	47	15	18.51
6121	9	577200	6878500	290	370	23	-2	2	5	1.4	23	-1	-5	-100	12	63.8	27	25.51
6122	9	594000	6876500	420	720	46	7	4	12	2.8	99	2	-7	-100	-18	49	16	14.02
6124	9	590800	6867000	450	660	48	-4	5	13	3.9	45	4	-7	-100	83	97.7	28	19.93
6125	9	596200	6869000	2630	1970	180	21	25	110	-22	1030	52	1180	-100	72	948	489	27.9
6126	9	583500	6868900	280	500	16	-2	-1	-5	0.9	16	-1	-5	-100	-10	39	11	12.21
6127	9	578200	6866500	3340	3040	248	12	23	74	-12	695	15	263	-100	-46	1510	333	28.42
6128	9	572000	6867300	3180	3030	165	15	15	58	-11	550	11	304	-100	-44	1560	334	19.78
6130	9	588000	6862200	675	870	59.4	-5	6	15	-5.9	80	4	33	-100	-21	172	56.6	26.45
6131	9	588100	6862000	607	840	88.8	-5	13	35	-8.1	78	7	10	-100	-18	197	55.1	23.57
6136	9	590800	6850900	180	380	32	2	4	13	3	35	4	22	-100	-5	74.4	23	25.26
6140	9	564500	6910200	34	62	4.3	-2	-1	-5	-0.5	14	-1	-2	-100	52	8.3	3.3	26.45
6143	9	559500	6905200	400	680	46	7	2	-5	0.8	4	-1	-7	-100	-14	24	8.9	11.4
6149	9	625200	6795800	390	620	58	-4	8	30	-8.4	220	40	140	-100	39	159	96.3	21.06
6159	9	556500	6917500	890	1630	98	9	8	22	4.9	180	5	-11	-100	-21	112	35	11.12
6160	9	556500	6918000	210	390	23	3	2	7	1.3	63	2	-5	-100	-12	26	11	13.03
6163	9	560000	6915100	37	51	3.6	-2	-1	-5	-0.5	11	1	-2	-100	-5	5.8	3.3	28.2
6166	10	473500	6763300	290	580	35	6	3	7	1.7	52	5	-8	-100	-15	42	12	8.91
6167	10	404000	6762100	28	67	4.9	-2	1	15	4.2	307	3	-5	-100	-5	16	19	13.99
6168	10	404100	6762000	44	90	7.7	-2	3	24	5.2	414	6	-5	-100	-11	28	30	12.88
6169	10	405200	6754500	41	84	6.5	-2	1	21	5.4	402	3	-5	-100	-10	22	26	12.68
6170	10	404400	6770500	55	96	10	-2	3	24	5.4	362	6	-6	-100	-11	30	28	12.87
6171	10	404700	6770600	36	100	6.8	-2	2	19	5	296	5	-5	-100	-5	23	23	16.31
6172	10	404500	6772200	96	240	19	3	2	13	3.2	227	3	-6	-100	-12	21	19	12.05
6173	10	404500	6775000	120	200	17	-2	2	12	2.6	130	3	-4	-100	-5	19	14	24.52
6174	10	402200	6778100	53	100	8.7	-2	1	7	1.8	130	2	-2	-100	-5	13	13	23.87
6175	10	393000	6778000	160	240	15	3	2	-5	1	43	2	-6	-100	-14	13	10	18.59
6176	10	397000	6779000	250	420	26	-2	1	6	-0.5	28	1	-7	-100	-15	10	8.7	9.12
6177	10	401800	6778000	130	220	13	3	1	-5	1.1	39	1	-4	-100	-10	12	10	25.42
6178	10	400700	6777700	140	240	18	-2	2	6	1.4	50	1	-5	-100	-11	13	10	18.27
6179	10	403200	6782000	100	150	10	-2	-1	-5	-1	34	-1	-6	-100	-19	8.2	6.6	7.79
6180	10	408500	6783900	50	110	8.5	-2	2	15	3.9	190	4	-4	-100	8	22	18	25.81

Table A-3.2(vi) cont'd– INAA Results for Heavy Mineral Concentrates from Silts – Elements La to U and Mass

Field	Zo	Easting	Northing	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Ir	Au	Th	U	Mass
Num	ne	NAD27	NAD27	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	g
				5	10	0.2	2	1	5	0.5	2	1	2	100	5	0.5	0.5	0.01
6181	10	408200	6784000	28	46	4.4	-2	-1	5	1	63	1	-2	-100	80	8.9	6.9	12.6
6182	10	412200	6777000	52	98	9.3	-2	4	29	8.7	615	7	-6	-100	-12	37	40	16.76
6183	10	422300	6776600	38	96	8.3	2	2	23	5.8	435	5	-7	-100	15	31	33	11.36
6184	10	482000	6769200	20	53	2.9	-2	-1	-5	0.8	9	-1	-4	-100	-14	9.1	2.9	15.26
6185	10	389800	6782000	240	370	20	3	2	10	2.7	100	2	-5	-100	-10	25	14	17.6
6186	10	389500	6781800	250	320	21	5	2	-5	1.4	39	1	-6	-100	-16	19	9.5	20.68
6188	10	402000	6780800	140	230	14	2	2	5	0.8	39	1	-5	-100	-11	11	8.9	26.02
6190	10	394000	6787600	310	320	17	-2	1	-5	1	38	-1	-5	-100	-5	15	7.2	11.93
6191	10	404000	6784600	84	120	8.6	2	1	-5	1	14	-1	-5	-100	65	7.1	5	14.74
6192	10	402600	6787500	62	80	5.4	-2	-1	-5	-0.5	25	-1	-5	-100	-14	6.9	5.5	8.8
6193	10	403000	6787500	35	49	4.6	-2	-1	-5	-0.5	10	-1	-4	-100	-11	5	3.6	9.27
6194	10	412000	6791400	73	140	10	-2	2	16	3.1	190	3	-7	-100	-13	24	17	8.86
6195	10	416000	6793500	190	340	22	-2	2	9	2.9	180	4	-8	-100	-18	23	20	10.03
6196	10	408800	6799800	300	530	35	-5	3	8	1.5	55	4	9	-100	-16	44	14	7.42
6197	10	406000	6797800	21	30	2.4	-2	-1	-5	-0.5	5	-1	-2	-100	-5	4.5	2.5	7.78
6198	10	405200	6795500	16	-40	2.2	-2	-1	-5	-0.5	5	-1	-5	-100	-13	3.2	2.4	3.66
6199	10	405000	6795600	54	92	5	-2	-1	-5	0.9	23	-1	-2	-100	-5	10	5.3	11.58
6201	10	395200	6799500	29	30	1.9	-2	-1	-5	-0.5	5	-1	3	-100	-5	2.1	2.6	17.74
6203	10	395500	6807000	350	610	41	5	4	9	2.1	23	5	-7	-100	-13	37	10	12.03
6204	10	425000	6790000	52	130	8.8	-2	1	9	2	110	2	-7	-100	-12	23	10	7.79
6208	10	416000	6842800	21	38	3.3	-2	-1	-5	0.5	9	-1	-4	-100	-10	3.2	4.9	7.67
6211	10	442100	6840800	420	730	58	-4	8	27	6.7	328	11	-11	-100	-18	202	40	20.5
6215	10	439500	6829200	310	580	47	-2	6	19	4.1	211	10	-10	-100	-16	146	27	18.81
6216	10	462400	6834100	60	120	10	-2	1	5	0.9	31	2	-5	-100	-5	24	5.9	13.5
6218	10	428800	6829800	49	92	7.7	-2	-1	5	1.2	43	1	-5	-100	-5	19	6	8.94
6221	10	424000	6827900	16	18	2.2	-2	-1	-5	-0.5	12	-1	-2	-100	-5	4.3	3.4	11.02
6222	10	423900	6828000	13	-10	1.7	-2	-1	-5	-0.5	5	-1	-2	-100	-5	2.2	2.6	8.29
6223	10	430500	6816000	14	32	2.1	-2	-1	-5	-0.5	8	-1	5	-100	-5	4.1	2.9	8.76
6224	10	435900	6813100	18	24	2.7	-2	-1	-5	-0.5	11	-1	-2	-100	-5	5.3	3	8.29
6225	10	463500	6832600	230	450	32	-2	4	20	3.9	180	4	12	-100	290	86.9	21	11.47
6230	10	442200	6794000	41	97	6.9	-2	-1	-5	0.8	27	1	-4	-100	-5	18	4.9	11.52
6231	10	422100	6794000	31	52	4.7	-2	-1	-5	0.7	22	-1	-4	-100	-5	7.3	5.8	9.89
6233	10	422100	6806000	16	23	2.5	-2	-1	-5	-0.5	12	-1	-2	-100	-5	3.9	3.5	26.96
6235	10	453500	6822000	190	350	29	4	4	16	4.4	170	5	-8	-100	-12	83.3	22	21.07
6236	10	460500	6813200	180	340	27	2	3	13	3.4	130	5	-6	-100	-11	79.3	17	24.28
6239	10	458000	6808500	130	260	20	3	3	11	2.8	98	4	-6	-100	-5	47	14	20.44
6240	10	458000	6808100	400	710	52.5	-4	7	28	7.4	335	10	-12	-100	-19	137	38	12.22
6242	10	462200	6824200	160	330	26	5	3	15	2.9	110	4	-8	-100	180	78.1	16	13.86
6243	10	461500	6823000	250	440	34	-2	4	14	3.7	140	6	-7	-100	-11	81.3	19	23.24
6244	10	447000	6790200	140	300	22	-2	3	10	2.8	110	5	-6	-100	330	49	15	20.49
6246	10	441500	6787200	70	130	12	-2	2	6	1.4	60	2	-4	-100	-5	26	10	22.2
6249	10	456800	6781500	35	78	8.2	3	2	13	4.1	245	4	-4	-100	705	21	21	28.57
6250	10	465000	6762500	160	360	28	4	4	29	7.9	399	7	-10	-100	-15	83.3	38	12.31
6261	10	431600	6766000	64	180	12	-2	5	66	-18	1250	12	13	-100	-23	59.6	88.1	8.59
6265	10	426800	6758000	29	51	5.6	-2	2	16	4.8	314	4	-5	-100	-5	19	22	16.44
6267	10	424500	6755500	36	83	6.4	-2	2	15	3.7	200	4	-5	-100	-5	23	18	15.83

Table A-3.2(vi) cont'd– INAA Results for Heavy Mineral Concentrates from Silts – Elements La to U and Mass

Field	Zo	Easting	Northing	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Ir	Au	Th	U	Mass
Num	ne	NAD27	NAD27	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	g
				5	10	0.2	2	1	5	0.5	2	1	2	100	5	0.5	0.5	0.01
6274	10	452000	6793000	903	1470	96.9	12	7	19	4.7	180	9	35	-100	-23	110	33	12.96
6275	10	436000	6796800	56	110	7.6	-2	-1	-5	-0.5	27	1	-6	-100	-11	16	5.5	9.71
6276	10	425400	6790500	66	120	11	-2	1	6	1.5	36	2	-6	-100	-5	20	6.9	12.96
6277	10	424800	6791500	97	180	12	-2	2	7	1.4	53	2	-6	-100	380	26	9.2	8.28
6278	10	415000	6798100	16	-47	2.5	-2	-1	-5	-0.5	-2	-1	-8	-100	-15	3.3	1.7	2.48
6279	10	406500	6806000	19	36	2.8	-2	-1	-5	-0.5	7	-1	-2	-100	-5	3.8	3	20.17
5031	9	519750	6912850	70	72	9.2	-4	-1	-5	-1	5	1	-15	-100	-20	20	3.9	2.03
5034	9	512280	6932300	42	83	5.8	-5	2	-5	-1	6	-1	-13	-100	-22	9.1	4.1	1.84
5036	9	517600	6929400	44	-64	5.4	-2	-1	-5	-0.5	-2	-1	-13	-100	-21	8.8	4.3	1.87
5038	9	528500	6925600	53	100	7.4	-6	2	-5	-1.2	-4	-1	18	-100	-26	10	5.9	1.71
5039	9	523900	6924600	16	-21	2	-2	-1	-5	-0.5	-2	-1	5	-100	-5	2.5	2	6.24
7001	9	564250	6893000	66	84	8.5	-2	-1	-5	-0.5	5	3	-10	-100	-16	23	18	7.34
7003	9	563500	6894900	130	200	16	3	2	-5	1.5	6	2	10	-100	-14	30	25	16.15
7004	9	564200	6895800	699	1140	55.5	-7	4	11	2.7	110	2	-13	-100	-22	212	41	6.54
7008	9	569000	6848250	71	170	13	-2	1	-5	1	11	1	15	-100	-16	22	9	5.45
7011	9	569750	6852250	300	590	42	-5	4	15	2.8	76	10	24	-100	-19	120	49	6.43
7012	9	554000	6901000	1290	1570	114	-8	13	43	-11	329	14	-18	-100	-31	517	129	21.59
7014	9	553500	6902000	588	990	83.8	-6	11	38	8.6	259	19	-15	-100	-23	363	98.2	10.31
7015	9	556500	6901000	330	580	41	-2	4	14	3.1	58	6	-8	-100	17	127	35	23.08
7016	9	559200	6905500	2670	2940	385	40	29	45	-7	170	14	-61	-100	-35	607	124	30.62
7017	9	559500	6905200	350	660	46	-2	3	-5	0.9	16	2	-8	-100	-15	53.3	13	11.8
7018	9	561200	6907000	80	150	9.3	2	-1	-5	1.1	39	1	-6	-100	-13	18	6.5	17.37
7020	9	565000	6910000	410	770	53.6	7	4	7	1.4	32	2	-7	-100	-15	58.6	13	16.7
7021	9	568000	6844250	370	620	52.8	6	3	5	1.1	50	5	34	-100	-15	47	17	17.78
7022	9	565000	6845500	260	450	31	4	2	6	1	21	3	45	-100	-15	35	23	13.85
7023	9	558500	6851750	210	380	24	-2	2	10	1.7	58	10	273	-100	-15	73	42	9.33
7026	9	571500	6901500	410	650	46	8	5	15	3.5	70	4	-8	-100	-15	67.6	19	27.91
7030	9	579250	6888500	180	330	18	-4	1	-5	1.4	25	1	-9	-100	-12	37	7.4	4.82
7031	9	579250	6888750	1720	2390	140	-10	13	53	-13	477	5	30	-100	-32	403	114	8.71
7032	9	591250	6907250	701	1150	90.4	16	8	25	5.6	190	6	14	-100	61	168	41	15.79
7033	9	591500	6907000	627	1170	84.6	12	6	17	4.6	100	4	-9	-100	26	123	29	18.79
7034	9	574250	6887500	100	130	11	-2	1	-5	1.4	13	-1	-9	-100	-17	18	11	13.13
7035	9	574000	6887250	190	370	30	5	2	-5	0.5	4	1	-7	-100	-12	28	6.8	20.54
7036	9	581750	6879750	568	530	31	-6	3	-5	-2.3	42	1	-18	-100	-46	71.5	21	19.29
7037	9	572500	6873000	1460	1800	90.3	-7	7	31	6.4	170	7	45	-100	57	525	73.6	21.44
7038	9	572750	6872750	220	380	19	-2	2	-5	0.9	39	2	10	-100	-10	59.3	17	13.24
7039	9	590750	6868200	531	810	55.2	-2	5	17	3.4	43	4	-10	-100	22	100	28	22.69
7042	9	531250	6881750	200	220	15	-4	2	8	-2	24	2	-14	-100	-42	19	13	10.27
7043	9	586500	6894750	640	1120	67.5	-7	4	-5	1.5	34	2	-14	-100	-23	44	10	6.02
7044	9	591000	6891500	250	490	32	-6	2	10	1.8	58	2	-12	-100	-16	38	12	3.87
7047	10	387000	6773000	190	300	17	4	1	9	1.6	59	1	-9	-100	-21	15	8.4	13.05
7048	10	389200	6778000	110	160	10	-2	1	-5	0.6	18	-1	-7	-100	-13	44	6.7	8.32
7050	10	394700	6777750	160	220	15	-2	-1	-5	-0.5	12	-1	-7	-100	-13	5.1	4.2	8.31
7052	10	397000	6779500	90	98	8.1	-2	-1	-5	1	20	1	-9	-100	-15	6.8	5.5	4.14
7053	10	399500	6775750	83	130	11	2	1	8	1.6	93	2	-6	-100	-11	13	10	16.71
7054	10	399250	6776000	160	280	21	5	1	-5	1.4	51	1	-8	-100	-13	10	8.1	14.65

Table A-3.2(vi) cont'd– INAA Results for Heavy Mineral Concentrates from Silts – Elements La to U and Mass

Field	Zo	Easting	Northing	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Ir	Au	Th	U	Mass
Num	ne	NAD27	NAD27	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	g
				5	10	0.2	2	1	5	0.5	2	1	2	100	5	0.5	0.5	0.01
7055	10	403500	6768500	120	250	18	-2	4	29	7.5	372	8	-13	-100	-19	49	33	6.25
7057	10	407500	6774750	97	180	11	-2	2	8	1.9	120	2	-7	-100	-11	10	10	9.16
7058	10	442750	6839750	63	92	7.3	-2	1	-5	-0.5	31	1	-8	-100	-10	21	4.8	6.69
7059	10	442500	6839750	250	460	34	-2	5	22	6	230	7	-11	-100	-15	94.4	25	14.48
7060	10	442750	6838500	190	330	27	3	4	18	4	170	5	-9	-100	-12	75.4	20	21.69
7062	10	447500	6818250	210	380	32	-2	4	15	3.1	140	7	-11	-100	-15	96	20	11.8
7063	10	448500	6813250	310	580	47	-4	6	24	5	259	10	-15	-100	-21	152	34	10.78
7064	10	449000	6813500	480	870	58.2	7	8	30	6.3	238	8	-17	-100	-24	245	34	10.53
7065	10	450500	6810750	250	440	34	4	4	16	4	160	7	-12	-100	-16	109	21	11.6
7067	10	441500	6788000	140	270	22	-2	3	10	2.9	100	5	13	-100	-14	49	15	8.59
7069	10	441000	6786750	84	160	14	-2	2	6	1.5	55	3	-11	-100	-15	28	9	5.33
7071	10	442000	6787750	200	420	30	4	4	27	6.5	342	8	-14	-100	-20	77.6	33	8.22
7072	10	441500	6787500	220	420	34	5	5	26	6.5	291	8	-13	-100	-18	86.7	31	12.68
7073	10	438750	6783750	190	380	30	-2	5	17	4.8	180	6	-13	-100	-18	71.8	23	9
7074	10	429500	6768000	34	87	6.3	3	3	30	7.9	622	6	-11	-100	-16	30	39	7.6
7075	10	432000	6766250	22	49	4.4	-2	2	17	5.1	450	5	-8	-100	-13	20	30	12.05
7077	10	433500	6765000	30	86	5.7	2	2	20	5	356	5	-8	-100	-12	19	26	8.88
7083	10	442000	6826000	28	36	4.6	-2	-1	8	2.6	110	1	-9	-100	-13	10	8.9	4.18
7084	10	407000	6785750	170	250	16	-2	1	-5	1.5	39	-1	-8	-100	-15	13	10	11.44