861103 Shear

PLACER DOME INC. GEOLOG DRILLHOLE HEADER FORM

DRILLHOLE HEADER CARDS — FILL OUT ONCE PER HOLE

KEY	FLAG	FORMAT VERSION	SPEC	UNIQUE ID OF PROJECT OR SUB-PROJECT	DRILL HOLE / TRAVERSE PRE-FIX / TYPE / NUMBER	SIZE OF CORE OR HOLE	GEOLOGGED MONTH	BY	ASST'D BY	DRILLED DRILLER (S)	MONTH	YR.	RIG TYPE	DRILLING TIME-HRS	SURVEYED BY	CO-ORD SYSTEM	GRID AZIMUTH	PAGE	OF
I	DEN	6B02	01	SHEAR	DDH92-4	NQ	24SEP92	BWR									.	01	

IPRJ	COMPANY NAME	PROPERTY or PROJECT or SUB-PROJECT NAME
IPRJ		

	TURN'G PT. 000=Collar	FROM	TO	MT or FT	TOTAL DEPTH/LENGTH	AZM CLOCKW'S FR TRUE N	V-ANG. NEG. IF DOWN	NORTHING	NEG. IF SOUTH	EASTING	NEG. IF WEST	ELEVATION	NEG. IF SUB-SEA
S	000	0	6100		119.80	272.0	-44.00		.		.		.

← Drillhole coordinate system units.

See Note 4 → TO DEFINE HOW AND AMOUNT FIELDS OF ALTERATION AND MINERAL SUITES — Fill out OPEN FIELD

/NAM	RECOVERY	T-MOD	% MIX	ROCK	TM 1	TM 2	QM 1	TX 1	TX 2	F F	GRAIN C C %C MXP	R i	B1	STRUC. ID	STRIKE AZM	DIP TO RT OR PLUNGE	ALTERATION AND MINERAL SUITES	OPEN FIELD
/NAM																		

LNAM	RQD	AGE FORM'N	ENVIR	LC / TM 3 COLOUR	QM 2	TX 3	TX 4	S R	R N	S N	O/C	FRACTURES S I M I L tot	R i	B2	STRU. 2 ID	AZM	DIP TORT	FILL IN COLUMN HEADINGS USED	OPEN FIELD if desired
LNAM																			

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

	UNIT OF LENGTH	UNIT OF RECOVERY
/SCL	T.2	.

	UNIT OF RQD	LCTM or LB Hu
LSCL	.	

EXTRA DOWNHOLE SURVEY CARDS — CROSS OUT IF NOT REQ'D.

FILL OUT IF REQUIRED — CROSS OUT IF NOT REQUIRED

	TURN'G PT 000=Collar	FROM	TO	TOTAL DEPTH / LENGTH	AZM CLOCKWISE FR. TRUE N.	V-ANG NEG. IF DOWN
S	001	6100	11980	119.80	275.00	-44.00
S	002			.	.	.
S	003			.	.	.
S	004			.	.	.
S	005			.	.	.
S	006			.	.	.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

EXAMPLE OF ASSAY FILE DEFINITION — CROSS OUT IF NOT REQ'D.

A00 ← Assay File No. (Typically 1.)

AUMM ← ASSAY FIELD NAMES SEE NOTE 2 →

ALAB

ATYP

AMTH

ASSAY FILE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OR REPLACED BY REMARKS

SAMPLE ASSAY RECORDS

	FROM	TO	RECOVERY	SS=Sample Serial No.	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9
A00													
A00													
A00													
A00													

Assay File Definition Number, Typically A001.

Notes:

1. - Do not change /NAM, LNAM, /SCL, LSCL, or AUMM card definitions durin a project. Blanks may be changed hower.
2. - On AUMM card, right adjust names so that R.H. 4 letters make sense. They will be "stats" header names.
3. - Units of distance on S000 card are for survey coordinates, those on /SCL card are for downhole distances.
4. - To define XX type field put XX in upper tier, lower tier then becomes corresponding How and amount field.
5. - If additional "S" or "A" cards are required use another header form and cross out unwanted portions or enter "S" or "A" cards on keypunched portion on Form 2.

P.L.K. - A.K. - Feb. 88

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

UNIQUE ID OF PROJECT	DRILL HOLE/TRAVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID AZIMUTH	PAGE	OF
IDEN 6B0201 SHEAR	DD#92-4	NQ											02	

S	DRILL COORD SYSTEM UNITS →	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION
		T	.	.	.	.	.	.

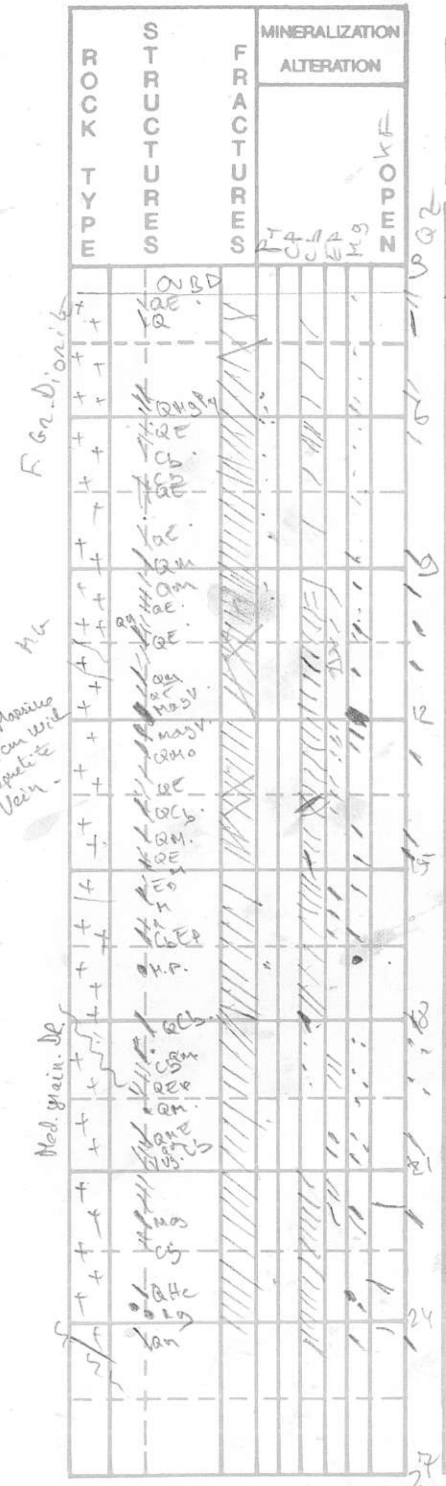
	HORIZON FLAG	FROM	TO
1	2 3 4	5 6 7 8 9 10	11 12 13 14 15 16
/			
	ZONE FLAG		
L			

RECOV. 18 19 20	T-MOD 21 22	% MIX 23	ROCK 24 25 26 27	VEINS S M L tot 43 44 45 46
RQD	CS			FRACTURES S M L tot

DEFINED MINERAL FIELDS

57 58	59 60	61 62	63 64	65 66	67 68	69 70	71 72	73 74	75 76	OPEN FIELDS 77 78	79 80
KF	SI	CL	EP	PI	MG	XX	CP	P2	BN	XX	YY
MS	CB	HE	CH	PR	LI	XX	QZ	ML	HE	XX	YY

GRAPHIC LOG



DESCRIPTIVE REMARKS

1-4	FROM	TO	DESCRIPTIVE REMARKS	RECOV	SAMPLE No. / ROCK	DEFINED MINERAL FIELDS
A00						
P	000	370	Broken top of hole from 3.7		OVBD.	
			4.3 m -			
/	370	900	Fine grained diorite, Q epidote and		FG DIOR.	F1 V+ D+
L			qtz magnetite py veins up to 2			<) C+ V+
			cm wide - Diss. mag in diorite -			
A001	370	600	Some steep Qtz Cb veins -		25834	
A001	600	900	Limonite coating.		25835	
			11.8 - 11.85 massive black 5 cm wide			
			magnetite vein			
/	900	1500	Fine grained, really magnetic		FG DIOR	F1 V+ D1
L			diorite - Magnetite veins			V) C+ V+
			Qtz - epidote micro veins -			
A001	1200	2300			25836	
A001	900	1200			25836.	
A001	12	1500			25837	
			35° dipping shear zone at 18 m - Qtz			
			carb vein, a bit of gouge -			
/S14	1500	2100	Medium grained diorite, some		MG DIOR	F1 V) D=
L			qtz magnetite patches and veins			<) V)
			also Qz epidote veins -			
A001	1200	1500				
A001	1500	1800			25838	
A001	1800	2100			25839	
/	2100	2440	Diorite becomes darker, greener		MG DIOR	<*F1 V) D=
L			sericitize, Qtz magnetite and			<) V)
			K-Spar microveins -			
A001	2100	2440			25840	

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

IDEN	UNIQUE ID OF PROJECT	DRILL HOLE/TRAVERSE	PAGE
IDEN	6B0201 SAEAR	DDH 92-4	03

GRAPHIC LOG

Codes (1–4)	FROM	TO	DESCRIPTIVE REMARKS	RECOV / SAMPLE No. / ROCK	DEFINED MINERAL FIELDS
A00					
D	2440	3030	White, fld PP, felsic dyke, disseminated	FL FLDY	
L			magnetite, numerous qtz hem micro		<) D=P3 <)
R			veins — Core is completely broken,		
R			strong clay alteration Qe CS		
R			microveins, disseminated hematite –		
R			limonite until 27.5. core is		
A001	2400	2700	reddish from hematite at 30 m.	25841	
A001	2700	3000		25842	
/S15	3000	3600	Sheared porphyritic white felsic dyke –	SH FLDY	Q+ <* <C
L			Qtz and pyrite microveins, Some		V∠ D=
			Qtz veins have been broken up –		
A001	3000	3300	diss. hematite Shear is 50°. @ 35 m. 20	25843	
A001	3300	3600	cm white qtz vein, pyrite replace black	25844	
			streaks magnetite? Small fault, 50 cm –		
			of broken core –	SH FLDY	Q+ <* <C
/	3600.	4200	Qtz Hematite veins, Cp and pyrite		V1 D1
/			in a finer grained felsic dyke between		
R			38.5 and 39.0 m –		
			@ 38 m 20 cm wide brecciated		
			white qtz vein.		
A001	3600	3900		2584S	
A001	3900	4200		25846	
			Massive felsic dyke between 42 - 45 m –		
			finer grained, chlorite rich between 46 - 45.8		
			@ 47. 50 cm fault zone		
/	4200	4800	broken core, slickensides gouge	SH FLDY	Q+ D- D–
			47.3 - 48.0. banded red - white		V= B1
			felsic dyke some chlorite, hematite		
			bands up to 5 cm wide –		
A001	4200	4500		25847	
A001	4500	4800		25848	

Graphic log margin notes: Fault zone – broken felsic dyke; white felsic dyke; Sheared felsic dyke; f.gr. felsic dyke

IDEN	UNIQUE ID OF PROJECT	DRILL HOLE/TRAVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID AZIMUTH	PAGE	OF
IDEN6B0201	SHEAR	DDH 92-4												04	

S	DRILL COORD SYSTEM UNITS →	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION
S		T	.	.	.	.	.	.

PLACER DOME INC.
DRILL LOG FORM 4

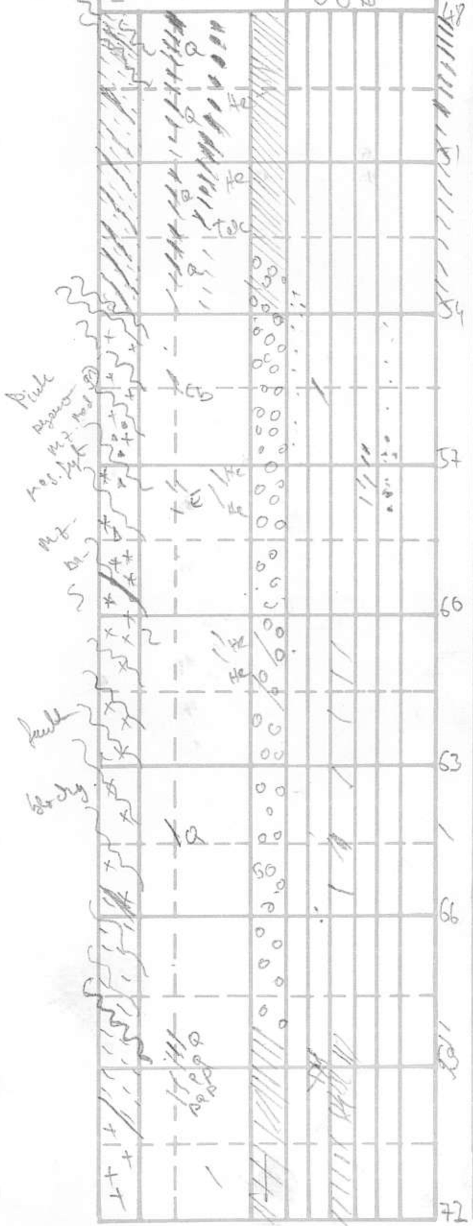
MBG - JULY 90

HORIZON FLAG (1-4)	FROM (5-10)	TO (11-16)
/		
ZONE FLAG		
L		

RECOV. (18-20)	T-MOD (21-22)	% MIX (23)	ROCK (24-27)	VEINS S M L tot (43-46)	DEFINED MINERAL FIELDS (57-76)	OPEN FIELDS (77-80)
					KF SI CL EP PI HG XX CP P2 BN	XXYY
RQD	CS			FRACTURES S M L tot	HJ CB E CY PR LI XX QZ MC HE	XXYY

GRAPHIC LOG

ROCK TYPE | STRUCTURES | FRACTURES | MINERALIZATION ALTERATION | OPEN



1-4	FROM	TO	DESCRIPTIVE REMARKS	RECOV / SAMPLE No. (18-26)	Mineral fields
A00					
R	4800	5400	48.2 - 49. fault zone, gouge, banded	SH FLDY	B= D-
L			qtz, hematite chlorite, bands up to 3		Y2 B3
R			cm wide —		
R			50 - 51.5 some massive bands of hematite		
R			up to 20 cm wide — dis. He throughout		
R			could replace Py, cubic — 2 mm —		
A001	4800	5100		25849	
A001	5100	5400	54-57, pink to grey med grained	25850	
			syeno-monzonite, brecciated around 57m		
/	5400	5930	with magnetite frags up to 1 cm. Increase	FL MONZ	P2 C) D*Q1
			of epidote, chlorite and hematite		C)
			coating on fracture,		
A001	5400	5700		25851	
A001	5700	6000	dis. black cubic min, pyrite to hematite.	25852	
			65 felsic dyke. diss. cp. and py —		
/	6000	6600	Blocky core, fault zone —	FL DIOR	C) D-D=
			fine to med grained diorite, green —		<) D*
			Poor recovery ~ 60% some		
			magnetite patches —		
A001	6000	6300		25853	
A001	6300	6600	67.5 felsic dyke is bleached, silicified	25854	
			20 cm of gouge at 67.7 trace pyrite		
R	6600	7000	68. - 69. silicified felsic dyke,	FL FLDY	C) D*
L			core is laced with pyrite qtz. carb.		<)
R			veins up to 5 mm —.		
A001	6600	6900		25855	
/	7000	7200		MG MONZ	C|
L					<| C)
A001	6900	7200		25856	

UNIQUE ID OF PROJECT	DRILL HOLE/TRAVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID AZIMUTH	PAGE	OF
IDEN6B0201													05	

S	DRILL COORD SYSTEM UNITS →	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION
S		T	.	.	.	.	.	.

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

GRAPHIC LOG

ROCK TYPE | STRUCTURES | FRACTURES | MINERALIZATION ALTERATION | OPEN

Py-Qz felsic dyke; Cb, cb; Ap-r; Qtz; amp., amph; magnetic dyke or fgt; epi cab; lapilli tuff; lapilli tuff; Cb, Qtz; Act.Epi., Cb; Act. Epi Py; Cb Ep.

HORIZON FLAG	FROM	TO
/		
ZONE FLAG		
L		

RECOV.	T-MOD	% MIX	ROCK	VEINS S M L tot	DEFINED MINERAL FIELDS	OPEN FIELDS
					KF SI CL EP PI HG XX CP PZ SN	XX YY
RQD	CS			FRACTURES S M L tot	HS CB CH PR LI XX QZ ML HE	XX YY

DESCRIPTIVE REMARKS

1-4	FROM (5-10)	TO (11-16)	DESCRIPTIVE REMARKS	RECOV (18-20)	SAMPLE No. (21-26)	DEFINED MINERAL FIELDS
A00						
/	72.00	78.00	Breccia, fragts up to 3 cm wide - black fine gr. magnetic matrix, some epidotized volc. some intr. fgts - magnetite fgts - Really poor recovery, 50% Broken core -	50	BRXX	C) <) #1 <)
A001	72.00	75.00			25857	
A001	75.00	78.00			25858	
/	78.00	84.00	Lapilli tuff - green, in place one small 20 cm wide felsic dyke with py + Qtz V. Strong magnetite flooding - numerous large fgts, breccia mostly - numerous qtz magnetic veins -		VL BRXX	C) <) #1 <) <)
L						
A001	78.00	81.00			25859	
A001	81.00	84.00			25860	
/	84.00	90.00	Lapilli tuff green, fgts up to 3 cm. black magnetite fgts one magnetic med grained 10 cm long fgt or dyke at 86 m. Core is slowly getting a little more solid -		SH VTLP	C) <) Q1 <) CC
A001	84.00	87.00			25861	
A001	87.00	90.00	Lapilli tuff - 93.5 - 94.0 silicified tuff 5- pyrite microveins - fgts up to 2 cm -		25862	
/	90.00	96.00	Core is solid, 100% Recovery - Cb- epidote zone, silicified in place		VTLP	C) <) Q= <) CC
L						
A001	90.00	93.00			25863	
A001	93.00	96.00			25864	

UNIQUE ID OF PROJECT	DRILL HOLE/TRAVERSE	SIZE OF CORE	LOGGED	BY	DRILLER (S)	MONTH	YEAR	TYPE	TIME-HRS	SURVEYED	SYSTEM	GRID AZIMUTH	PAGE	OF
IDEN 6B0201 SHEAR	DD492-4	HQWL											06	

S	DRILL COORD SYSTEM UNITS →	M/F	TOTAL DEPTH/LENGTH	AZM	V ANG	NORTHING	EASTING	ELEVATION
		T						

GRAPHIC LOG

ROCK TYPE | STRUCTURES | FRACTURES | MINERALIZATION ALTERATION | OPEN

PLACER DOME INC.
DRILL LOG FORM 4

MBG - JULY 90

HORIZON FLAG	FROM	TO
/		
ZONE FLAG		
L		

RECOV.	T-MOD	% MIX	ROCK	VEINS S M L tot	DEFINED MINERAL FIELDS	OPEN FIELDS
					KF SI CL EP PI MG XX CP PZ BN	XX YY
RQD	CS			FRACTURES S M L tot		
					MS CB CY PR LI XX QZ MC #E	XX YY

DESCRIPTIVE REMARKS

Depth	Code (1–4)	FROM	TO	DESCRIPTIVE REMARKS	RECOV	SAMPLE No.	Rock	Mineral fields
96	A00							
				Lapilli tuff fgt up to 3 cm, magnetic fgts.				
	PS16.	9600	10200	98.4 - 100, grey massive dyke, med grained			VTLP	<)<*Q+
	L			diss. magnetite, qtz. and qtz epidote				<)
	R			microveins -				
99	A001	9600	9900			25865		
	A001	9900	10200	106-107. blocky ground, poor recovery 75%.		25866		
	R			faulty zone - pyrite blebs replacing				
102	R			mafic fragts, numerous magnetic				
	R			fragts.				
	R			@ 107.5 c/T with fine grained				
	/	1020	10750	green diorite. magnetic.			VTLP	<) Q* Q+
105	L							<)
	A001	10200	10500			25867		
	A001	10500	10800			25868		
108				107.5 - 110 m. f.gr. green diorite				
	P	10800	11400	108.6 - 108.8. small shear zone, steeply			VTLP	<)D)D+
	L			dipping. 10°, some volc. tuff fgts				<)
	R			carbonate stockwork followed by				
111	R			silicified zone - 20 cm with pyrite				
	R			111.3 - 11.6. Brecciated zone, carbonate				
	R			stockwork, diss. pyrite.				
	A001	10800	11100			25869		
114	A001	11100	11400			25870		
				114 - 119.8. Green. fine grained diorite -				
	/	11400	11980	with Qtz chlorite pyrite veins/ flooding.			FG DIOR	F)C)D)D) D+
								<)
117				118 - 118.3 - Silicified, felsic green				
				aphanitic dyke - Qtz v. + flood up to 3 cm -				
	A001	11400	11700			25871		
120	A001	11700	11980			25872		

/END.

PLACER DOME INC.
SHEAR PROPERTY-Geotechnical Data Coding Form

DDH# 92-4
Logged By PWATT

Page 1 of ____
Date: Sept/27/1992

Flag	Sample From	Interv to	Samp No.	Samp Length	Recov Length	Recov %	RQD Length	RQD %	CS Hard	Frac 0-30	PerM 0-30	Frac 30-60	PerM 30-60	Frac 60-90	PerM 60-90	PerM Total	Remarks
A002	3.70	6.60		2.90	2.70		.23		R3	10		14		3			75% BL
A002	6.60	8.50		1.90	1.90		.41		R3	7		15		1			70% BL
A002	8.50	10.10		1.60	1.60		.37		R3	5		13		2			35% BL
A002	10.10	12.20		2.10	2.05		.48		R3	7		14		4			40% BL
A002	12.20	14.60		2.40	2.40		1.10		R3	7		14		5			30% BL
A002	14.60	18.0		3.40	3.25		1.23		R3	3		14		9			5% BL solid
A002	18.0	21.0		3.0	3.0		2.25		R3	8		5		2			5% BL Solid
A002	21.0	23.60		2.60	2.60		.82		R3	13		25		5			70% BL
A002	23.60	25.0		1.40	1.30		.96		R3	9		8		2			40% BL
A002	25.0	27.10		2.10	2.25		.58		R3	18		21		6			85% BL shear gouge
A002	27.10	30.20		3.10	3.20		.16		R2	20		25		9			95% BL shear gouge
A002	30.20	32.90		2.70	2.25		.80		R3	6		17		0			10% BL
A002	32.90	36.0		3.10	3.30		.61		R3	9		17		3			50% BL
A002	36.0	39.0		3.0	3.0		1.69		R3	14		16		2			10% BL
A002	39.0	42.10		3.10	3.10		.51		R3	9		24		3			35% BL
A002	42.10	43.80		1.70	1.20		0		R3	11		19		4			95% BL
A002	43.80	45.70		1.90	1.75		.21		R3	6		19		3			70% BL
A002	45.70	47.30		1.60	1.40		.19		R3	3		14		0			95% BL
A002	47.30	50.30		3.0	2.90		.32		R3	13		24		3			90% BL
A002	50.30	52.90		2.60	2.60		.34		R3	8		13		1			60% BL
A002	52.90	55.60		2.70	2.10		0		R3	8		15		0			shear 99% BL MSB 54.4
A002	55.60	58.50		2.90	2.60		0		R3	10		25		3			shear 100% BL MSB 56.1, 57.8
A002	58.50	59.50		1.0	.90		0		R3	5		12		1			shear 100% BL
A002	59.50	62.50		3.0	2.10		0		R3	7		21		4			shear 95% BL MSB 61.7
A002	62.50	65.70		3.20	1.70		0		R3	14		25		6			shear 100% BL MSB 64.6
A002	65.70	66.8		1.10	.90		0		R3	9		15		3			Shear 100% BL
A002	66.8	69.5		2.70	2.40		.33		R3	9		17		4			shear 90% BL
A002	65.9	72.1		6.20	2.70		.12		R3	10		21		5			75% MSB 70.1

Do Not fill in shaded areas

PLACER DOME INC.
SHEAR PROPERTY-Geotechnical Data Coding Form

DDH# 92-4
Logged By P WATT

Page 2 of ___
Date: Sept /30 /1992

Flag	Sample From	Interv to	Samp No.	Samp Length	Recov Length	Recov %	RQD Length	RQD %	CS Hard	Frac 0-30	PerM 0-30	Frac 30-60	PerM 30-60	Frac 60-90	PerM 60-90	PerM Total	Remarks
A002	72.10	76.20		4.10	2.40		0		R3	6		24		7			95% BL MBS 73.0,75.0
A002	76.20	79.10		2.90	2.45		0		R3	14		23		6			98% BL MSB 78.0, 78.8
A002	79.10	81.40		2.30	2.0		0		R3	9		19		4			100% BL MSD 80.0, 80.9
A002	81.40	84.10		2.70	2.60		0		R3	12		26		6			95% BL, MSB 82.9, 83.5
A002	84.10	85.10		1.0	.70		0		R3	3		8		0			90% BL
A002	85.10	87.80		2.70	2.30		0		R3	3		21		1			95% BL, MSB 86.0 86.5
A002	87.80	91.20		3.40	3.40		.22		R3	8		24		0			80% BL, MSB, 90.1, 90.7,
A002	91.20	94.70		3.50	2.90		.68		R3	5		33		2			40% BL, MSB, 93.8
A002	94.70	96.0		1.30	1.30		.10		R3	3		22		0			60% BL, MSB, 95.3
A002	96.0	97.40		1.40	1.40		.38		R3	2		9		2			30% BL
A002	97.40	99.70		2.30	2.30		.24		R3	12		18		4			35% BL MSB, 98.9
A002	99.70	102.40		2.70	2.60		.30		R3	9		21		4			70% BL MSB, 101.5
A002	102.40	105.20		2.80	2.0		.13		R3	6		24		3			30% BL MSB, 104.3
A002	105.20	107.60		2.40	1.90		0		R3	6		15		1			90% BL MSB 106.7
A002	107.60	108.80		1.20	1.20		0		R3	5		20		4			95% BL
A002	108.80	111.60		2.80	2.70		0		R3	5		22		6			95% BL, MSB 108.5, 111.3
A002	111.60	113.10		1.50	1.50		.23		R3	3		14		3			90% BL
A002	113.10	116.20		3.10	3.10		1.50		R3	1		14		3			20% BL
A002	116.20	118.0		1.80	1.60		.70		R3	2		9		4			25% BL
A002	118.0	119.8		1.80	1.80		.25		R3	10		14		1			50% BL
A002		E.O.H															
A002																	
A002																	
A002																	
A002																	
A002																	
A002																	
A002																	

Do Not fill in shaded areas

Big Kid

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

NOVEMBER 13, 1992

CERTIFICATE OF ANALYSIS ETK 92-538A

PLACER DOME INC.
401, 1540 PEARSON PLACE
KAMLOOPS, B.C.
T2P 2E1

SAMPLE IDENTIFICATION: 39 CORE samples received OCTOBER 2, 1992
PROJECT: NONE GIVEN

PAGE 1

ET#	Description	AG (ppm)	MO (ppm)
1-	25834	.5	4
2-	25835	.2	1
3-	25836	.1	2
4-	25837	.1	4
5-	25838	.3	3
6-	25839	.5	2
7-	25840	.3	3
8-	25841	.2	4
9-	25842	.1	1
10-	25843	.2	3
11-	25844	.3	1
12-	25845	.2	4
13-	25846	<.1	5
14-	25847	.1	3
15-	25848	<.1	2
16-	25849	<.1	3
17-	25850	.2	4
18-	25851	<.1	4
19-	25852	.1	3
20-	25853	.2	3
21-	25854	.2	1
22-	25855	1.0	3
23-	25856	1.0	4
24-	25857	.3	4
25-	25858	.3	1
26-	25859	.8	1
27-	25860	.4	1

FEED DOCUMENT THIS DIRECTION

IMPORTANT FAX MESSAGE

TO: /
COMPANY: Placer Dome
FAX NO.:
FROM: Vicki @ Eco-tech
NO. OF PAGES: 2
RE: Results as requested

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

 PLACER DOME INC. ETK 92-538A NOVEMBER 13, 1992

ET#	Description	AG (ppm)	MO (ppm)
28-	25861	.2	2
29-	25862	.1	3
30-	25863	<.1	2
31-	25864	.3	6
32-	25865	.2	<1
33-	25866	.3	5
34-	25867	.2	5
35-	25868	.1	4
36-	25869	.1	6
37-	25870	.1	1
38-	25871	.3	2
39-	25872	.2	3
		.2	3

NOTE: < = LESS THAN

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI
B.C. CERTIFIED ASSAYER

SC92/PLACER2

DDH 92-4

ECO-TECH LABORATORIES LTD.
10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

PLACER DOME ETK 92-538 PAR. 5
1440 HUGH ALLAN DRIVE
KAMLOOPS, B.C.
V1S 1L8

ATTENTION: ROB PEASE

OCTOBER 14, 1992

39 CORE SAMPLES RECEIVED OCTOBER 2, 1992
SAMPLES SUBMITTED BY: B.W. HARDY

VALUES IN PPM UNLESS OTHERWISE REPORTED

FEED DOCUMENT THIS DIRECTION
IMPORTANT FAX MESSAGE
TO Rob Pease
COMPANY Placer Dome
FAX NO. 372-2784
FROM Vicki Eco Tech
NO. OF PAGES 2
RE Results as requested.

PAGE 1

ST#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
1 -	25834	20	<.2	2.38	5	10	115	<5	2.38	<1	34	43	119	5.26	.29	<10	1.95	673	<1	.03	20	1719	<2	5	<20	75	.33	<10	201	<10	28	90
2 -	25835	20	<.2	2.37	10	8	100	<5	3.07	<1	34	43	150	5.81	.20	<10	2.00	784	<1	.03	21	1204	<2	5	<20	99	.33	<10	199	<10	26	95
3 -	25836	15	<.2	2.44	20	10	300	<5	2.76	<1	35	38	113	7.42	.16	<10	1.93	752	<1	.02	23	1303	<2	5	<20	114	.31	<10	235	<10	24	106
4 -	25837	15	<.2	2.43	10	10	95	<5	3.19	<1	30	48	144	5.73	.15	<10	1.93	792	<1	.03	18	1308	<2	5	<20	107	.32	<10	203	<10	26	98
5 -	25838	75	<.2	2.14	20	10	125	<5	3.09	<1	32	73	253	5.97	.13	<10	1.65	834	<1	.02	17	1342	<2	5	<20	103	.30	<10	222	<10	24	104
6 -	25839	30	<.2	2.09	20	10	185	<5	3.22	<1	35	120	303	6.55	.13	<10	2.05	924	<1	.02	34	1286	<2	5	<20	78	.33	<10	250	<10	26	101
7 -	25840	25	<.2	2.00	10	8	170	<5	5.55	<1	26	26	224	5.64	.12	<10	2.13	1256	<1	.02	7	1655	<2	5	<20	82	.23	<10	257	<10	23	70
8 -	25841	35	<.2	.79	15	8	65	<5	7.06	<1	20	20	195	4.72	.28	<10	1.94	1513	<1	.01	5	1781	<2	10	<20	83	<.01	<10	153	<10	8	50
9 -	25842	10	<.2	.59	15	8	55	<5	5.70	<1	17	13	112	3.86	.29	<10	1.66	1365	<1	.01	38	1554	<2	10	<20	87	<.01	<10	93	<10	6	47
10 -	25843	30	<.2	.64	20	9	110	<5	5.69	<1	18	12	144	4.30	.28	<10	1.85	1066	<1	.01	1	1606	<2	10	<20	87	<.01	<10	72	<10	5	41
11 -	25844	65	<.2	.86	15	11	105	<5	5.85	<1	21	16	439	4.96	.29	<10	2.07	1135	<1	.01	4	1601	<2	5	<20	107	.02	<10	106	<10	7	55
12 -	25845	60	<.2	.59	20	9	120	<5	6.80	<1	24	26	436	4.91	.29	<10	2.57	1221	<1	.01	8	1327	<2	10	<20	121	<.01	<10	113	<10	5	49
13 -	25846	35	<.2	.62	20	8	100	<5	6.23	<1	23	29	227	4.93	.27	<10	2.38	1208	<1	.01	9	1298	<2	10	<20	104	<.01	<10	133	<10	5	45
14 -	25847	25	<.2	.55	20	8	140	<5	6.32	<1	22	26	224	4.71	.25	<10	2.37	1283	<1	.01	7	1301	<2	10	<20	112	<.01	<10	117	<10	6	44
15 -	25848	45	<.2	.61	15	8	100	<5	5.91	<1	21	11	113	4.65	.31	<10	2.08	1193	<1	.01	3	1523	<2	10	<20	115	<.01	<10	97	<10	5	48
16 -	25849	45	<.2	.60	15	8	50	<5	6.16	<1	19	13	33	4.42	.29	<10	2.10	1168	<1	<.01	4	1457	<2	10	<20	103	<.01	<10	101	<10	4	52
17 -	25850	40	<.2	.65	15	9	50	<5	6.16	<1	22	12	534	4.07	.31	<10	2.05	1132	<1	<.01	4	1469	<2	10	20	<1	<.01	<10	79	<10	4	44
18 -	25851	30	<.2	1.25	15	8	70	<5	3.48	<1	17	7	169	4.27	.23	<10	1.49	677	<1	.02	1	1645	<2	5	<20	62	.02	<10	94	<10	7	32
19 -	25852	20	<.2	1.53	20	7	45	<5	2.13	<1	19	9	262	5.56	.06	<10	1.28	554	<1	.02	2	1569	<2	5	<20	176	.19	<10	134	<10	19	32
20 -	25853	45	<.2	1.66	15	6	45	<5	2.56	<1	19	8	250	4.60	.07	<10	1.90	687	<1	.03	1	1748	<2	10	<20	51	.19	<10	176	<10	19	39
21 -	25854	15	<.2	.88	15	12	70	<5	4.67	<1	8	11	30	3.33	.43	<10	1.20	675	<1	.01	<1	1723	<2	5	<20	59	.02	<10	96	<10	6	19
22 -	25855	55	.8	.60	30	9	35	<5	3.29	<1	77	13	680	5.06	.32	<10	.90	617	<1	.01	2	1325	<2	5	<20	54	<.01	<10	37	<10	3	46
23 -	25856	20	.6	1.86	20	9	45	<5	3.91	<1	35	14	372	5.09	.15	<10	1.27	718	<1	.02	2	1508	<2	10	<20	63	.22	<10	143	<10	24	53
24 -	25857	30	<.2	1.75	30	10	100	<5	2.61	<1	23	17	115	5.93	.06	<10	1.02	458	<1	.02	2	1547	<2	5	<20	153	.33	<10	130	<10	31	44
25 -	25858	25	<.2	1.91	20	10	40	<5	3.26	<1	20	9	73	5.47	.11	<10	1.28	565	<1	.02	1	1598	<2	5	<20	152	.31	<10	132	<10	31	41

ETK	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
26 -	25859	45	.4	1.46	30	9	50	<5	4.34	<1	63	7	335	6.35	.27	<10	1.00	641	<1	.02	2	1634	<2	5	<20	77	.09	<10	94	<10	14	46
27 -	25860	25	<.2	1.26	25	8	40	<5	3.07	<1	30	5	107	5.69	.20	<10	.81	529	<1	.02	1	1559	<2	5	<20	83	.21	<10	111	<10	23	36
28 -	25861	30	<.2	1.47	25	9	160	<5	2.24	<1	16	19	156	5.36	.06	<10	.88	382	<1	.02	2	1560	<2	5	<20	157	.28	<10	129	<10	26	37
29 -	25862	<5	<.2	2.08	25	7	50	<5	3.72	<1	21	4	96	6.17	.08	<10	2.09	812	<1	.01	2	1505	<2	10	<20	78	.26	<10	148	<10	25	59
30 -	25863	<5	<.2	2.36	25	8	215	5	2.69	<1	19	9	14	6.11	.05	<10	1.67	645	<1	.02	1	1615	2	10	<20	81	.27	<10	153	<10	25	60
31 -	25864	10	<.2	2.10	25	7	120	<5	2.84	<1	29	7	78	5.83	.06	<10	1.67	655	<1	.02	1	1622	7	5	<20	78	.31	<10	157	<10	29	68
32 -	25865	25	<.2	1.96	25	8	120	<5	3.02	<1	23	7	57	5.68	.10	<10	1.72	617	<1	.02	1	1585	<2	5	<20	104	.32	<10	182	<10	30	46
33 -	25866	10	<.2	2.25	25	8	55	<5	2.87	<1	38	15	185	5.50	.10	<10	1.69	689	1	.02	2	1785	<2	5	<20	110	.32	<10	165	<10	31	49
34 -	25867	15	<.2	2.37	25	9	60	<5	2.88	<1	33	8	156	5.58	.06	<10	1.87	758	1	.02	2	1701	2	10	<20	98	.32	<10	154	<10	31	59
35 -	25868	15	<.2	2.24	25	9	50	<5	3.39	<1	23	11	59	5.86	.15	<10	1.86	746	<1	.02	<1	1639	<2	5	<20	78	.22	<10	134	<10	24	52
36 -	25869	25	<.2	2.40	15	8	100	<5	3.73	<1	36	5	117	6.44	.09	<10	2.03	798	3	.02	1	1600	2	5	<20	107	.29	<10	171	<10	22	53
37 -	25870	5	<.2	2.32	15	8	80	<5	3.65	<1	17	12	72	5.41	.08	<10	1.62	666	1	.02	2	1620	<2	5	<20	86	.26	<10	161	<10	26	41
38 -	25871	20	<.2	2.55	15	10	40	<5	3.35	<1	33	8	239	5.19	.10	<10	1.97	897	2	.02	<1	1794	7	5	<20	82	.26	<10	187	<10	25	64
39 -	25872	15	<.2	2.32	20	10	75	<5	4.48	<1	30	9	148	5.15	.17	<10	1.55	853	1	.01	<1	1774	2	5	<20	70	.21	<10	153	<10	23	49
QC DATA																																
REPEAT #:																																
33-25866			<.2	2.23	20	9	55	<5	2.88	<1	38	14	157	5.58	.10	<10	1.66	697	1	.02	2	1802	3	5	<20	104	.31	<10	164	<10	29	51
STANDARD 1991			1.4	2.07	70	6	150	<5	2.05	<1	22	77	89	4.25	.37	<10	1.04	765	<1	.02	25	689	35	5	<20	79	.16	<10	91	<10	18	79

NOTE: < = LESS THAN

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, B.Sc.T.
B.C. Certified Assayer

SC92/PLACER

DDH 92-4
SLUDGES

PLACER DOME RESEARCH CENTRE
Geochemical Analysis

Project/Venture: V304
Area: SHEAR
Remarks:
Au – 10.0 g sample digested with Aqua Regia and determined by Graphite Furnace A.A. (D.L. 1 PPB)
ICP – 0.5 g sample digested with 4 ml Aqua Regia at 100 Deg. C for 2 hours.
N.B. The major oxide elements, Ba, Be, Cr, La and W are rarely dissolved completely with this acid dissolution method.

Geol.: B BARDE
Lab Project No.: D2584

Date Received: OCT 20 1992
Date Completed: NOV 3, 1992

Page 1 of 1
Attn: B BARDE
R PEASE
G LUSTIG
E KIMURA

RECEIVED
NOV - 5 1992
PLACER DOME INC.
EXPLORATION

SAMPLE No.	Au ppb	Ag ppm	Mo ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Cd ppm	Ni ppm	Co ppm	Mn ppm	Bi ppm	Cr ppm	V ppm	Ba ppm	W ppm	Be ppm	La ppm	Sr ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
46-56	5	35	70	355	8	168	23	<5	0.3	37	29	1028	<2	79	201	123	8	0.5	7	105	0.24	2.25	2.62	6.78	1.76	0.23	0.09	0.15
56-66	26	20	48	349	11	167	24	<5	0.4	45	30	1142	<2	92	203	213	14	0.6	8	97	0.26	2.17	3.07	6.89	1.99	0.21	0.08	0.17
66-76	15	22	44	296	6	144	22	<5	0.3	31	27	1303	<2	62	218	234	20	0.6	6	94	0.26	2.27	3.85	6.53	2.06	0.20	0.09	0.18
76-86	11	14	22	261	10	125	17	<5	0.2	27	26	1504	<2	42	155	114	56	0.6	7	91	0.11	1.53	4.87	5.93	1.84	0.23	0.05	0.17
86-96	5	10	19	175	11	93	17	5	0.2	17	21	1404	<2	26	103	88	26	0.5	7	89	0.06	0.88	4.74	4.67	1.60	0.21	0.03	0.16
96-106	5	19	33	155	14	80	17	9	<0.1	14	20	1309	<2	23	69	80	28	0.5	5	99	0.03	0.69	4.87	4.55	1.56	0.21	0.03	0.16
106-116	7	20	43	191	16	88	18	5	0.2	22	23	1159	<2	37	101	115	55	0.5	5	87	0.06	0.85	4.29	5.66	1.62	0.18	0.02	0.14
116-126	12	20	44	435	18	101	17	8	0.3	28	26	1264	<2	41	117	156	45	0.6	6	109	0.06	0.86	5.06	5.87	1.98	0.20	0.03	0.15
126-136	15	15	27	456	18	99	20	8	0.3	30	26	1195	<2	44	118	115	31	0.5	5	102	0.06	0.86	4.83	5.93	1.94	0.19	0.03	0.14
126-136*	19	15	26	443	14	100	18	<5	0.3	28	26	1172	<2	41	114	111	45	0.5	5	99	0.06	0.83	4.67	5.79	1.89	0.18	0.03	0.14
136-146	10	30	52	286	42	124	71	35	2.6	63	54	1173	10	74	170	211	88	3.3	60	114	0.08	0.95	3.81	5.38	1.66	0.15	0.03	0.13
146-156	10	44	55	386	19	94	21	<5	<0.1	28	27	1225	<2	34	99	199	54	0.6	6	114	0.04	0.74	4.86	5.63	1.82	0.19	0.03	0.16
156-166	15	29	75	194	21	108	19	<5	0.2	29	27	1341	<2	34	101	125	58	0.6	6	117	0.03	0.57	5.71	5.95	2.06	0.15	0.02	0.15
166-176	16	36	74	608	20	85	23	10	0.3	20	30	1351	<2	20	72	61	38	0.6	6	125	<0.01	0.42	6.46	5.15	2.17	0.15	0.02	0.16
176-186	10	46	92	411	13	67	19	8	1.3	22	21	814	<2	28	76	374	68	0.4	6	80	0.03	0.89	3.71	4.49	1.61	0.15	0.03	0.16
186-196	6	102	167	549	15	58	21	<5	0.1	18	21	720	<2	23	90	174	300	0.4	6	78	0.08	1.03	2.94	5.27	1.39	0.10	0.04	0.15
196-206	14	96	97	548	15	71	19	<5	<0.1	24	20	779	<2	29	107	148	296	0.5	5	65	0.07	1.22	3.87	5.18	1.44	0.13	0.04	0.16
206-216	19	35	27	454	13	36	15	<5	<0.1	14	14	612	<2	17	57	70	156	0.5	6	70	0.01	0.89	4.61	3.72	0.87	0.19	0.02	0.18
216-226	16	157	62	705	14	89	19	<5	0.3	23	28	780	<2	23	58	91	540	0.4	5	70	0.02	0.71	4.67	4.98	1.04	0.18	0.03	0.16
STD-SPK-P1	36	51	59	27	54	149	23	8	0.2	35	7	611	<2	114	34	193	<5	0.5	7	86	0.11	1.05	0.98	2.33	0.87	0.37	0.06	0.09
226-236	23	133	111	692	15	87	22	<5	0.6	24	41	691	<2	28	89	42	348	0.6	8	64	0.08	1.19	3.29	6.10	0.99	0.16	0.06	0.14
236-246	11	253	321	799	14	89	19	<5	0.3	30	18	538	<2	34	91	213	447	0.4	5	60	0.14	1.05	2.01	6.45	0.88	0.09	0.04	0.14
246-256	12	289	331	819	14	54	17	<5	0.1	31	19	545	<2	35	85	74	399	0.5	6	53	0.10	0.95	2.22	6.35	0.76	0.12	0.04	0.13
256-266	11	288	232	805	20	83	18	<5	0.4	40	33	664	<2	43	92	75	397	0.5	7	61	0.09	1.09	2.83	6.72	0.91	0.14	0.05	0.14
266-276	12	317	366	970	15	89	22	<5	0.4	41	30	715	<2	46	88	86	570	0.4	6	72	0.10	1.05	3.19	6.63	0.82	0.19	0.05	0.15
276-286	42	331	318	813	13	71	19	<5	0.1	26	15	503	<2	31	101	117	461	0.4	4	80	0.15	0.95	2.11	6.18	0.79	0.09	0.04	0.15
286-296	10	277	375	847	16	80	22	<5	0.4	30	21	732	<2	32	109	118	432	0.6	7	89	0.13	1.39	2.89	6.77	1.32	0.11	0.04	0.15
296-306	9	256	308	790	14	90	18	<5	1.4	38	19	694	<2	47	108	218	364	0.5	4	75	0.15	1.57	2.26	6.99	1.33	0.10	0.06	0.14
306-316	6	216	237	692	26	127	16	<5	1.2	38	30	684	<2	36	119	179	327	0.6	5	76	0.16	1.66	2.39	6.89	1.32	0.13	0.08	0.15
306-316*	7	214	232	703	25	124	17	<5	1.2	39	30	690	<2	37	123	185	330	0.6	6	77	0.16	1.69	2.49	6.92	1.36	0.13	0.08	0.15
316-326	4	147	126	546	15	82	17	<5	0.4	30	32	637	<2	34	149	69	289	0.8	10	109	0.20	1.76	2.42	6.07	1.43	0.21	0.10	0.17
326-336	5	190	184	734	15	88	20	<5	0.4	35	65	750	3	36	124	120	471	0.6	6	85	0.18	1.79	2.33	6.58	1.55	0.14	0.08	0.17
336-346	4	38	64	438	36	174	59	13	2.6	51	106	885	10	50	148	128	170	2.7	49	105	0.14	2.01	3.32	6.10	1.63	0.18	0.08	0.18
346-356	8	59	76	396	15	103	15	<5	0.5	28	95	834	<2	27	108	58	167	0.5	8	77	0.10	1.85	4.02	6.52	1.55	0.18	0.06	0.16
356-366	34	41	35	278	17	91	18	<5	0.5	23	49	1024	<2	23	116	106	96	0.6	7	123	0.13	1.85	6.39	5.82	1.49	0.12	0.06	0.14
366-376	6	17	26	223	19	88	27	<5	0.9	29	40	802	<2	28	167	128	60	1.0	14	113	0.20	2.31	3.96	6.18	1.66	0.15	0.09	0.18
376-386	10	15	13	283	20	104	16	<5	0.6	20	36	821	<2	17	127	61	23	0.5	5	81	0.14	2.02	2.92	5.27	1.66	0.14	0.07	0.16
386-393	6	80	43	390	19	100	23	<5	0.5	26	60	871	<2	25	124	66	140	0.6	7	82	0.13	1.96	4.36	6.19	1.41	0.19	0.07	0.17
386-393*	7	76	42	386	18	105	22	<5	0.7	28	60	895	<2	26	131	67	139	0.7	9	83	0.14	2.04	4.43	6.32	1.49	0.20	0.07	0.17