

PACIFIC RIDGE EXPLORATION  
Mariposa Project

DDH 11mp -08

			CODE	CODE	Description				Samp. #	Sample	Int.	Glc	Loc	Fr	Box	Blench	Chl	Sen	K-Spar	Sil	Clay	Mg	Hem	Py	Qz	Bk	Str.	Tgt		
From	To	Interval	gen	det		From	To	Interval																						
0.00	3.05		CAS																											
3.05	25.65		DIO/FL	XBY	FAULT / FRAC ZONE IN DIORITE; MULTIPLE FAULT GOUGE SEGMENTS WITHIN PALE PINK WHITE TO WHITE DIO BX; MED GRN'D, WK TO MOD SEN +/- KSPAR LOCALLY. SOME LOCAL CHL-RICH AREAS UP TO 11cm WIDE. GOUGE / CLAY OCCURS AT 4.85-5.19m, 7.34-12.04m, 12.37-14.69m AND 20.23-20.60m (NOTE INDEPENDANT SAMPLES). MATERIAL IS HIGHLY OXIDIZED. RED BROWN TO ORANGE-BROWN, TR Py. INTERVALS CONTAIN ~ 30% Breccia MATERIAL.	3.05	4.85	021068	DIOx	2	OB	FR	2	0.5	2	0.5	2	1	1	0	0.5	0.2	0.5	0	0					
						4.85	5.19	021069	FLTxy	4	YB	PER	5	4	2	0.5	2	0.5	0	2	0.2	0.2	0.5	0	0.2	LCT	042			
						5.19	5.90	021070	DIOx	1	OB	FR	3	0.5	2	0.5	2	0.5	0.5	0	0.5	1		0	0.2	SHR	042			
						5.90	6.26	021071	DIOx1	1	OB	FR	2	0.5	3	2	1.5	2	1	0	1			0	0					
						6.26	7.34	021072	DIOx	2	YB	PER	2	0.5	2	0.5	2	2	1	0	1			0	0.2					
								021073	BLANK																					
						7.34	8.76	021074	FLTxy	4	YB	PER	5	4	2	0.5	3	0.5	0.5	2	0.5	0	0.5	0	0					
						8.76	10.60	021075	FLTxy	4	YB		5	3	2	1	1	0.5	1	2	0.5	1	1	1	1					
						10.60	12.04	021076	FLTxy	4	YB		5	4	2	1	1	0.5	1	2	0.5	1	1	1	1	SHR	060			
								021077	CDN-CAS 22																					
						12.04	14.69	021078	DIOx	2	OB	FR	3	2	1	1.5	1	0.5	0	1	0.2	0.5	0.5	0	0.2	UCT	060			
						14.69	16.89	021079	DIOxb	3	OB	FR	3	3	1	2	1	0.5	0.5	0	0	0	0.2	0	0					
						16.89	18.14	021080	DIOx	2	OB	FR	2	2	1	2	1	1	0.5	0	0	0	0.2	1	1	FOL	026			
						18.14	20.23	021081	QB	2	OB	FR	1	1	2	2	1	0.5	0.5	0	0	0	0.2			VN	070			
						20.23	20.58	021082	FLTxy	3.5	OB	PER	4	4	1	0.5	2	0	0	2	0	0	0							
						20.58	22.77	021083	DIOx	2	OB	FR	1.5	1	2	1	2	0.5	0.5	0	0	0	0.2	1	1					
								021084	DUP.																					
						22.77	23.40	021085	QBx	1	OB	FR	1	2	2	1	2	0	0.5	0	0	0	0.2	0	0					
						23.40	24.32	021086	DIOx	2	OB	FR	2	2	1	1	1	0	1	0	0	0		1	1					
						24.32	25.65	021087	DIOx	2	OB	FR	2	1	1	1	1	0.5	1	0	0	0		1	1	LCT	052			
25.65	28.09		DYKE	1	MED-COARSE TO MED GRN'D MAFIC DYKE; CARB/CHL MATRIX WITH COARSER BIO/ACT. XTALS; MINOR QZ EYES, NO SX; QV @ 046 TCA @ 27.40m, 5cm WIDE. APPEARS TO BE K-SPAR PHENOS, ≤ 5mm; VERY VIL TRACT. +/- FOL(?) AT 082 TCA. Q/CARB VNLT? OFFSET @ 27.98m (PHOTO TAKEN).	25.65	27.40	021088	DYKE	0.5	B	FR	0.5	0	0	4	0	0	0	1	0	0	0.5	0	0					
						27.40	28.09	021089	DYKE	0.5	B	FR	0.5	0	0	4	0	0	0	1	0	0	0.5	0	0					
28.09	30.91		FLT		FAULT / FRAC. ZONE IN DIORITE; PALE WHITE TO PALE ORANGE-WHITE; STR. PERVASIVE OX; HIGH DEGREE OF BX & CLAY GOUGE. SHR 038TCA @ 28.10 SHNS @ 052 TCA @ 30.46,	28.09	29.20	021090	FLTxb	4	YB	PER	4	4	3	0	2	0	0	2	0	0	0.2	0	0	SHR	038			
						29.20	29.70	021091	FLTxb					4						2										
						29.70	30.46	021092	FLTxy					2						4										
						30.46	30.91	021093	FLTxb	1	1	1	1	4	1	1	1	1	1	2	1	1	1	1	1	SHR	052			
								021094	BLANK																					

3.182  
42.32  
36.74  
5.53

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Mariposa Project

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From	To	Interval	CODE gen	CODE det	Description	From	To	Type Interval	Sample	OX Int.	OX Colour	OX Loc.	Fe Int.	Box Int.	BLEACH	CHL	SER	K-SPAR	SL	CLAY	MAG	HFM	PY	CLAY	BLK	STR.	TA
30.91	45.49		DIO	X	DIORITE WITH LOCAL SIL. ZONES PALE WHITE TO PALE PINK / BLUE WHITE; WK to MOD FRACS; SIL WK BUT MOD IN LAST ~3m. LOCAL K-SPAR DEVELOPMENT // to FUL; MT up to 5% LOCALLY (NEAR 40.0m). TR- 1% Py; minor CHL ON FRACS AND FUL //. OCCASIONAL LOW-ANGLE FRACS (~005 to) NEAR 38.0m.	30.91	32.22	DIOx	021095	2	OB	FR	0.5	0	2.5	0.5	2	0.5	0.5	0	0.2	0	0.2	0	0		
							33.41	DIOx	021096	2			1	0	2.5	0.5	2			0.2							
							34.52	DIOx	021097	3			2	0	2.5	0.5	2			0.2						FUL	052
							CGS-22	STAND.	CGS-22	021098																	
							34.52	DIOx	021099	2	OB	FR	1	0	2.5	0.5	2	0.5	0.5	0	0.2	0	0.2	0	0	FR	031
							37.79	DIOx	021100	2			2		3		1	0.5		0.5		0.2				SHR	054
							39.61	DIOx	021101	2			1		3		1			1		0.5					
							41.21	DIOx	021102	1.5			1		3		1			2		0.5					
							42.32	DIOx	021103	1.5			2		3		1			0.5		0.2					
								DUP.	021104																		
							42.32	DIOg	021105	1	OB	FR	1	0	2	1	0.5	0.5	1.5	0	0.5	0.2	0.2	0	0		
							43.84	DIOgx	021106	1.5			1		2	1	0.5		2		0.5						
							44.36	DIOgx	021107	1.5			1		2	1	0.5		2		0.2						
							45.49	DIOg	021108	1			1		2	1	0.5		1.5		0.2					GV	044
45.49	50.04		FLT	Xby	HIGHLY SHEARED FAULT ZONE; LOW ANGLE (028 to) PALE WHITE TO YELLOW-WHITE. ~25% Bx, 15% CLAY. MINOR CHL, MOD SER; ABUNDANCE OF QTZ FRAGS, MAY BE ALTERED DIO? WK LOCAL SIL & KSPAR (<2cm WIDTHS).	45.49	47.43	FLTxby	021109	3	OB	PER	3	3	3	0.2	3	0	0	2	0	0.2	0.2	0	0	uc	047
								BLANK	021110																		
							47.43	FLTxby	021111	3	OB	PER	3	3	3	0.2	3	0	0	2	0	0.2	0.2	0	0	SHR	028
							50.04	FLTxby	021112	3	OB	PER	4	3	3	0.2	3	0	0	2	0	0.2	0.2	0	0		
50.04	61.84		DIO	X	MOD BLEACHED & FRACT'D DIORITE; PALE WHITE TO PALE GREY, MFA to MED GRAIN DIORITE; LOCAL WK to MOD KSPAR DEVEL; LOCAL WK to MOD CHL INTERVALS; MOD SER. DEVEL. to DIORITE. SOME SMALL (<3cm WIDE) SHEAR ZONES WITH MINOR CLAY / GONGE MATERIAL. FOL ~ 046 to; SHR & PR @ 036 to.	50.04	51.12	DIOx	021113	2	OB	FR	1	0	2	1	2	1	1	0.5	0	0	0.5	0	0	FUL	058
							52.34	DIOx	021114	1			1	0	3	1	1	1	1	0		0					
							53.34		021115	2			2	0	3	1	1	0.5	0.5	1		0					
							54.34		021116	2			2	0.5	2	0.5	1.5		0.5	0		0					
							55.34		021117	2			1	0	2	0.5	1.5		0.5	0		0					
								STANDARD	GS-48	021118																	
							55.34	DIOx	021119	2	OB	FR	1	1	2	1	1	0.5	0.5	0	0	0.2	0.2	0	0	FOL	046
							57.80		021120	1			1	0	1	1	1	0.5	0.5	1		0.2	0.2			FR	036
							59.46		021121	1			0.5	0	2	1	1	0.5	1	0		0.5					
							60.90		021122	2			1	0.5	3	1	1	1	1	0.5		0.2					
								DUP.	021123																		
							60.90	DIO	021124	2	OB	FR	1	0.5	3	1	1	1	1	0.5	0	0.2	0.2	0	0	SHR	028
61.84	63.36		DYKE/DIO FLT		50% MAFIC DYKE / 50% SHEARED DIO WITH BLEACHED SERVITE ALTN. STRONG SHRINK / FAULTING; 15% CLAY CONTENT IN DIO SHR; TR- 1% Py in DIO, NONE VISIBLE IN DYKE SEGMENTS. DYKE: 62.19-62.44m DIO: 61.84-62.19m 62.79-63.08m 62.44-62.79m 63.08-63.36m	61.84	63.36	FLTx	021125	3	OB	PER	2	3	1	2	2	0.5	0	2	0	0	0.5	0	0		

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**DDH** 11 MP-08

			CODE	CODE	Description			Type	#	Int.	Coll.	Loc.	FR.	BR.	BLEACH	CHL	SEA	K-Span	L	Clay	MAG.	HEM	Py	CPY	BLACK	STRUCT.	OT	
From	To	Interval	gen	det		From	To	Interval	Sample	Int.	Coll.	Loc.	FR.	BR.	BLEACH	CHL	SEA	K-Span	L	Clay	MAG.	HEM	Py	CPY	BLACK	STRUCT.	OT	
63.36	68.38		FLT	xby	strongly clay alt and Faulted Dior. local MnO <sub>2</sub> strong clay alt + black broken core. Variably altered across zone with patchy increases in bio/chl. Yellow clay alt on fract + per. clay alt. FOL SO across unit. Increased hem. at 64.80m in blocky core w/ MnO <sub>2</sub> on frac. surfaces. Shy hem along clay seam at 70TCA at 65.60m.	63.36	64.64	DIOxby	21126	2	Oy	P	3	3	1	2	2	-	0	2	0	0.2	0.5			FOL	SO	64.64
					64.64	66.48	DIOxby	21127	3	Oy	P	4	3	2	1	2	-	0	2	0	0.5	0.5			VN	44	66.30	
					66.48	67.96	FLTxby	21128	3	Oy	P	5	4	3	3	2	-	0	4	0	0.2	0.5						
					67.96	68.38	DIOxby	21129	4	O	P	3	3	1	1	2	-	0	2	0	-	0.5			FOL	SO	68.30	
							BLK		21130																			
					66.30 1cm Qtz vein at 44TCA - grey Qtz. Qtz-milled pieces at 66.75m - networked seen in FLT? Sharp increase in mafics after 66.80m - 67.96m + intense clay alt																							
68.38	78.49		DIO	DIOxby	Fractured + faulted pervasively or DIO w/ lim veins + zones of per. Sch. 70/30 DIO to Qhs. Dio is foliated, per on w/ zone of strong clay alteration. Increased clay alt + weak bleaching from 71.70 - 72.60m. Weak plucker lines + intense orange lim on fract surfaces. 72.60 - 74.75 - QBS w/ patchy per ox + lim frond. MnO <sub>2</sub> per ox + per. 74.75 - 76.86. Bleached dio w/ local fault gouge. cal along veins. 76.80 - 78.49 per to lent of calc or QBS.	68.38	70.56	DIOxby	21131	3	O	P	2	3	2	1	2	-	1	1	0.5	6 →				FOL	70	69.55
					70.56	71.70	DIOxby	21132	3	O	P	2	2	2	1	2	-	1	1	0.5	0 →				VN	60	70.40	
					71.70	72.71	DIOxby	21133	3	Oy	P	3	2	2	1	2	2	1	2	0.2	0 →				VN	30	70.41	
					72.71	74.75	QBSxby	21134	2	Oy	F	1	-	1	3	1	-	2	1	0.2	0 →				LC	50	70.56	
					74.75	76.15	DIOxby	21135	2	O	F	2	2	2	2	2	-	1	1	0.5	0 →				VN	20	74.15	
					76.15	76.97	DIOxby	21136	3	Oy	FP	3	3	2	1	2	-	2	2	0.5	0 →				VN	70	74.16	
					76.97	78.49	QBSx	21137	2	O	F	2	1	1	3	1	-	2	1	0.5	6 →				VN	60	75.50	
																								VN	30	75.40		
																								FOL	40	75.70		
					68.38 - 70.56 - weakly bleached FOL at 70TCA lim vein + cut 60TCA cut by 30TCA LCTC of BRX zone at 70.56 - 50TCA																							
					71.70 - 72.71 - fault zone - broken core? gouge 72.90 - 73.05m - K-Span alt - pink core																							
					72.71 - 74.75 - QBS - less lim veins. Blechy hem in Dio zone from 77.46 - 77.60m. Lim veins at 70 cut by lim veins at 70TCA PL 2mm veins.																							
					74.75 - 76.15 - Bleached Dio weakly bleached by lim veins. Dio veins at 60TCA. cal veins at 30TCA weak FOL at 40TCA GOUGE from 75.25 - 75.35m.																							

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**Mariposa Project**

PACIFIC RIDGE EXPLORATION										DDH																		
Mariposa Project																												
			CODE	CODE	Description																							
From	To	Interval	gen	det		From	To	Interval	Sample	ox min	ox wt	ox vol	Fe wt	Fe vol	Bl wt	Bl vol	chl	ser	kap	sil	clay	mag	hem	py	chl	Blak	ST	TCA
					76.15-78.49 - GOU at 76.15-76.25 GOU at 76.58-76.70 Mind Dio + OBC. Increased siliceous from Fault zone.																							
78.49	79.60		FLT	yxb	Permanently clay altered (oxidized) fault zone env DIO. Weak remnant quartz at 70TCA at top of unit. LTC w/ silicified Dio at 50TCA.	78.49	79.60	FLT yxb	21138	4	0	P	S		3	-	1	-	-	4	-	-	-				FOL 70 LTC 50	78.64 79.6
79.60	90.83		DIO	qxb	Silicified foliated MG Dio. Permanently oxidized + locally brecciated. Hem + cal veins across unit. Weak diss pyr ~ 0.5% and slightly diss for 0.5%. Intense hem alteration and brecciation at 86.05-86.17m Hem + cal matrix around angular qtz w/ chl + alt of fds? Ser + chl on fract surfaces.	79.60	81.10	STD CPNGS 7B21139																				
					Intense ser alt from 87.78-88.87m. Very minor oxidation. Fabric of Dio + cut by 40 TCA qtz + ser flouder. FG. Ox begins again - sharp contact at 88.87m - patchy ox to 90.83. Fault from 90.71-90.83 - clay alt Dio.	81.10	82.12	DIOxy	21140	2	0	FP	1	1	-	1	1	0.5	3	1	-	0.2	0.5					
						82.12	83.80	DIOxy	21141	2	0	FP	1	1	-	2	1	0.5	3	1	-	0.2	0.5				FOL 60	83.65
						83.80	85.50	DIOxy	21142	2	0	FP	1	1	-	1	1	1	3	1	-	0.5	0.5				FOL 70	85.35
						85.50	86.29	DIOxy	21143	2	0	FP	1	2	-	2	2	-	3	1	-	0.5	0.5					
						86.29	87.78	DIOxy	21144	2	0	FP	1	3	-	2	3	2	2	1	-	3	1				FOL 70	86.50
						87.78	88.87	DIOxy	21145	1	0	FP	1	1	1	1	1	-	3	1	-	0.5	0.5					
						88.87	90.83	DIOxy	21146	1	0	FP	1	2	-	2	4	-	3	1	-	-	-					
								BLK	21147	1	0	FP	2	1	1	1	2	-	2	2	-	0.2	0.5					
90.83	92.96		BRX		MG silicified K-spar altered Dio BRX MG. fds are K alt'd in a matrix of silica zone and by v.s. qtz veins. From 1-5mm Blocky broken core w/ lim and Hov on fracture surfaces + localized clay on fract. surfaces. Diss pyr ~ 1% + dis hem. Pyr assoc w/ hem. 10cm qtz vein at 92.80-92.90m LTC at 50 TCA chert margin w/ possible fine dark and at 50TCA.	90.83	92.96	DYK	21149	1	0	F	3	3	-	-	-	4	4	1	-	2	1			0.02 UN 50	92.90	



## Mariposa Project

DDH

[illegible]

20% at 45 dyk



			CODE	CODE	Description				Sample															STRUCT		
From	To	Interval	gen	det		From	To	Interval		int	col	loc	FK	Bx	Blend	chl	ser	Ksp	Sil	cl	Mag	Hem	PYR	Black	TCA	
100.12	101.19	DYK			[see p 5] Thick magnetite LCTC w/ Kspar alt Dio at 30TCA 100.85m less hem + pyr. 100.85-101.19. Kspar alt MG Dio.	100.12	101.19	DYK	21155	1	0	F	1	-	-	2	3	3	4	1		3	1		LCTC 30	100.85
						STD	CDN CGS	22	21156																	
101.19	106.76	DIO	DIObing		Intensely silicified Dio with Kspar and alteration of feldspars. Mixed zone w/ areas of sharply increased mafics 11 to FOL at 60TCA. Increase in fract at 103.72m - Fract 11 TCA ~ STCA. Increased clay on fract + bright yellow alt. to and 1 unit on fract. surfaces. Gouge from 104.10 - 104.30m. Qtz Kspar veins 1-3mm w/ 1-2 mm chals. Most 11 to FOL at 60TCA, cut by later ones at 50TCA. Increased dis pyr ~ 2% locally assoc w/ bio - often follows fol in more mafic areas.	101.19	103.11	DIOg	21157	1	0	F	1	-	-	3	3	2	4			1	2		FOL 60	101.20
						103.11	104.73	DIO Fault	21158	1	0	F	3	-	-	3	3	1	4	2		1	1			
						104.73	106.76	DIO alt	21159	1	0	F	2	-	-	4	3	2	4	2		1	2			
106.76	119.72		DIO	DIObio	Strongly silicified well foliated DIO with 15% mafics Bio + chl rich Dio local zone of intense bio. Patchy K spar alt. Good orange ox on fract surfaces. Foliation changes across zone, starts at 60TCA at 110.87m foliation weakens, almost disappears. Picks up again at 111.60m at 60TCA then becomes more shallow at 111.87m 40TCA. Corresponds to an increase in chl + ser alteration. DF color darkens + K-spar alt. also increases. Pyrox assoc w/ Bio, ranges from 1-4% locally. Very little veering vs above. Bleached + ox zone w/ fds -> chl + no mafics from 116.0 - 116.32m. 113.70 - 114.30 - weak ox + Hem w/ ser at 50TCA weakly increased.	106.76	108.81	DIOg	21160	-	-	-	1	-	-	3	3	1	5	-		2	2		FOL 60	107
						108.81	110.78	DIOg	21161	-	-	-	1	-	-	3	3	1	5	-		1	3			
						110.78	111.71	DIOg	21162	-	-	-	1	-	-	2	3	1	5	-		0.5	3			
						DUPd	21162		21163																	
						111.71	113.70	DIOg	21164	1	0	F	1	-	-	4	3	2	5	-		1	2		60	
						113.70	114.30	DIOg	21165	1	0	F	1	1	-	4	3	1	5	-		2	2		FOL 40	
						114.30	116.0	DIOg	21166	1	0	F	2	-	-	4	3	2	5	+		1	2			
						116.0	116.31	DIOg	21167	2	0	P	3	-	1	1	2	-	3	2		-	0.5			
						116.31	118.26	DIOg	21168	0.5	0	F	1	-	-	4	3	-	5	-		0.5	3			
						118.26	118.90	DIOg	21169	-	-	-	1	-	-	4	3	-	5	-		0.5	3			
						118.90	119.72	DIOg	21170	-	-	-	1			3	3	2	5			1	2			
						BLK			21171																	
119.72	122.80		FLT	DIO	Silicified K spar flooded DIO that has been faulted with strong ser + chl alteration. PEG-Ksp w/ at 2. Tensar fractures - filled w/ cal. Gouge from 119.72 - 119.95m, 120.73 - 120.82m. Strongly fract + assembly from 122.15 - 122.80m.	119.72	120.82	DIO Ksp	21172	-	-	-	4	1		3	3	3	4	2		0.5	1		FOL 60	120.40
						120.82	122.80	DIO Ksp	21173	-	-	-	4	1		3	3	3	4	2		0.5	1			



			CODE	CODE	Description				OX		OX														STRUCT		m
From	To	Interval	gen	det		From	To	Interval	Sample	int	col	loc	FR	Bx	BL	chl	Sen	Ksp	Si	cl	Mag	Hem	APR	CRY	Black	TYPE	
122.80	123.88		DIO		Intensely silicified seralt'd DIO w/ orange hem on fract + yellow clay alt of fcds. Bottle fracture - not faulted + clay alt'd as above. MG - weakly silicified. Intense K spgr all from 123.68 - 123.88 - increased diss pyr from 7% to locally 4%. Vuggy w/ Qtz + pyr in vugs.	122.80	123.88		21174	2	0	E	2	-	-	3	2	3	5	-	0.5	2					
123.88	137.03		DIO	DIOM	Sharp UCTC Btw/ K-spgr + fol chl + bio DIO at 70TCA	123.88	125.42		21175	-	-	-	1	-	-	3	3	2	8	-	1	3				UCTC 70	123.88
					Intensely silicified mafic rock DIO w/ zones of increased alteration of ser - core is lighter green. Periodic intrusions of Qtz + peg K-spgr	125.42	127.08		21176	-	-	-	2	-	1	2	3	2	4	-	1	1				FOL 70	125.0
					Localized zones of heavy chl, ser + clay alt w/ fast broken core. Entire unit is weak fault zone. Cal on fract. surfaces.	127.08	128.40		21177	-	-	-	1	-	1	2	3	1	4	1	0.5	1				FOL 40	132.40
					Sharp increase in Pyr from above. Very regular to pyr from 128.76 - 129.72 - diss along but + assoc w/ bio. Localized hem on fract. surfaces. Slipenlines at various points. 135.86 Fract 40TCA	128.40	129.72		21178	-	-	-	3	-	-	4	3	-	4	2	1	2				FOL 70	132.80
					slipens at 70TCA when looking DIO at fract. surface rel. to oval.	129.72	130.45		21179	-	-	-	2	-	1	3	3	-	4	0.5	0.5	1					
					123.88 - 125.42 Bluebly Pyr + Pyr along Bio seams at 124.95m. MG K fcds from 124.60 - 124.90m	130.45	131.80		21180	-	-	-	2	-	2	2	4	2	4	1	1	1					
					FOL 70TCA				21181																		
					125.42 - 127.08 50% peg qtz + K spgr, 50% mafic DIO. Peg has N.S. diss near Bio so not foliated. chl rich w/ sem gouge at	131.80	132.90		21182	-	-	-	1	-	-	4	3	1	5	-	0.5	2					
					128.40 - 129.72 - Gouge from 129.5 - 129.72m gouge at 128.65m assoc w/ 2cm bluish white qtz vein. Increased Bio - more mafic zone	132.90	133.88		21183	-	-	-	3	1	1	2	3	1	4	1	1	1.5					
					130.45 - 131.80 - increased K spgr + hem blebs - very cal on fract. surfaces - mafics washed out in much of zone - light green	133.88	135.48		21184	-	-	-	3	-	1	4	4	-	4	1	1	3				FOL 40	137.30
					131.80 - 132.90 - well foliated mafic zone. Foliation weak uphole. At 132.40 at 40TCA	135.48	137.03		21185	-	-	-	2	-	-	4	3	-	3	1	2	3				FOL 30	135.60
					132.80 - 70TCA mafic small garnets > Band of Kspgr + UCTC at 70TCA, 30TCA.																				FOL 60	136.30	
																									FOL 30	136.90	



**PACIFIC RIDGE EXPLORATION**  
**Mariposa Project**

DDH 11 MP-08[illegible]

PEG at 144.87-145.12 m. Dischem + <sup>partly</sup> Peyr locally  
3% at 143.80. along Fal + on qtz stringer cut  
207CA.



			CODE	CODE	Description				Sample	Ox		Ox		Min												STRUCT		
From	To	Interval	gen	det		From	To	Interval		int	col	loc	FR	Bx	Bl	chl	ser	KSP	sil	cla	Flg	Hem	Py	CPY	Blk	TYPE	TCT	
145.12	148.74	DIO	DIOH <sub>px</sub>		silicified mafic foliated DIO as from 138.11-142.65m v. cut by 2-3mm qtz + chl + ser veins at 30TCA at 147.60. Also x across PEG - minor intrusions between 147.15-147.60m. low looks more worked around PEG intrusions. FOL 30TCA. Hem. fault at 148.13m - lim on head, smoky clay alt. rock is less silicified than 148.15-148.74m increased chl alt + chl alt of fds. Hem. mostly pervasive from 148.25-148.74. Hem. 1/2 to 1/4 chl + qtz vein at 148.60m. Diaspore + hem. local SI	145.12	145.94	DIOH <sub>px</sub>	21193	1	0	F	1	-	-	3	3	0.5	4	0.5	-	-	-	-	-	-	FOL 50	148.50
						145.94	148.0	DIOH <sub>px</sub>	21194	1	0	F	1	-	-	4	2	0.5	5	-	-	-	-	-	-	-		
						148.0	148.74	DIO <sub>chl</sub>	21195	1	0	F	1	-	-	3	3	0.5	4	0.5	-	-	-	-	-	1/4 40	148.60	
						BLK			21196																			
148.74	150.62	PEG			K-span pegmatitic dyke w. 2-3cm K-spar phenocrysts weakly silicified on fracture surfaces. Pyg along line fractures. Chl increases after 149.75m as PEG mixes w/ chl much Abc	148.74	150.62	PEG	21197	1	0	F	2	-	-	2	1	4	5	-	-	0.5	0.5	-	-	-		
150.62	154.28	DIO	MDIO	MBDIO	silicified weakly faulted DIO. Very mafic with increased strain Qtz + feld grains elongated in 71° direction of foliation. Locally faulted. Broken w/ increased ser along dyke hem on fracture surfaces. Also local orange yellow oxide. Weak pervasive K-spar all fds. Zone cut by very green veins - epi? at 80 and 30TCA. 30TCA cut by 50TCA. diaspora across unit PEG intrusions at 154.10m w/ ser alt along cherty vein 90TCA FOL 30 across zone	150.62	152.65	MDIO	21198	0.5	4	F	3	-	-	3	2	1	4	-	-	1	1	-	-	ORTE 90	154.10	
						152.65	154.28	MDIO	21199	0.5	4	F	1	-	-	3	2	2	4	-	-	1	1	-	-	FOL 1	153.6	
154.28	155.54				altered and fractured DIO as above. Bio → chl. Increased limon fracture surfaces - orange Bio has altered to chl. + K-spar alt has increased Hem more prevalent along line fractures. No epi. seen but chl veins at 90TCA + 30TCA	154.28	155.24	DIO <sub>1</sub>	21200	1	0	F	2	-	2	4	2	3	3	1	4	1	-	-	-	FOL 30	154.70	



			CODE	CODE	Description					Ox	Ox	Min															
From	To	Interval	gen	det		From	To	Interval	Sample	int	col	loc	FR	Bx	BL	chl	ser	KSP	Sil	cla	mag	Hem	PyR	CPY	Blade	Type	TCA
155.54	162.45		ALT		strongly silicified chl + ser altered core with alternating zones of FG-VF6 foliated hpg → chl + ser that grades into lighter more bleached MG to CG Qtz rich zones. Higher MG-CG areas may have fda spot has been silica overprinted on its pieces of qtz that have been flooded w/ silica again. Grain edges very blurry. Max on some flat surfaces - very greasy feel. Fine diss pyz across zone, w more localized blebbly hem. Band of possible epi at 160.70m at 90 TCA in FG. Banded zone Qtz cal means across entire zone 30-50 TCA. Total cal filled tension gash at 156.40m. Fault + oxidized fault from 155.54 to 155.84. Fault core w cal near 11 TCA. slicken lines on lim on zero TCA fault. w 40 TCA slicks. slicken lines at 156.20 in MG-CG rock on 30 TCA fault. w 20 TCA slicks. 160.0m possible ttn-sphere.	155.54	155.84	FLTx	21201	3	0	F	4	-	2	1	4	-	3	1	-	-	1				
						155.84	157.60	ALT1	21202	-	-	-	3	-	-	3	4	-	4	-	-	-	1				
						157.60	158.99	ALT1	21203	-	-	-	2	-	-	3	3	-	4	-	-	1	1.5		FOL	70	
						158.99	160.06	ALT1	21204	-	-	-	3	-	-	3	4	-	4	-	-	1	2		FOL	80	
						160.06	161.40	ALT1	21205	-	-	-	2	-	1	2	4	-	4	-	-	1	1.5				
								STD	CDNCS 4B																		
						161.40	162.45	ALT1	21207	-	-	-	3		2	2	4	-	3	-	-	1	2				
162.45	164.19		BRX		strongly silicified + bleached ALT. Strongly chl + ser altered rock as above. cut by qtz, chl cal + them veins. as above. There are FG and (rare FG) MG-CG zones. Increase in Qtz veins + pieces lg 1cm qtz vein at 163.60 Qtz is sub angular + rimmed w/ser. 162.70 hem + chl veins at 40 TCA. Diss. pyz. 162.80 possible epi + chl + ser	162.45	164.19	Bx	21208	-	-	-	2	3	-	4	5	-	5	-	-	2	2				
164.19	167.74		ALT	ALTbl	ALT as from 155.54-162.45. FG. green, intensely silicified w/ cal ch veins at 30 TCA. From 164.19 - 164.85 - weakly bleached highly silicified + bleached. US. weakly lim bld spots w/ 2% diss pyz + trace. blebbly hem. Possible fine dark sul along VC qtz veins. - 0.5%.	164.19	164.85	ALTbl	21209	0.5	4	F	2	1	-	3	3	-	5	-	-	0.5	2		VN	30	
						164.85	166.49	ALTbl	21210	0.5	4	F	3	1	-	3	3	-	4	-	-	0.5	2		FR	30	
						166.49	167.47	BRX	21211	-	-	-	2	2	1	3	3	-	3	-	-	3	2		SL	40	
																									FR	0	
						164.85-166.49 - increased fractures weak or lim on surfaces w/ slicken lines at 165.20. FRA - 30 slicks at 40 TCA. Fracture 11 TCA. Max on flat surfaces. Blocky broken core.																					



24642

			CODE	CODE	Description				OX																		
From	To	Interval	gen	det		From	To	Interval	Sample	int	col	loc	FR	BR	BL	ch	em	Ksp	sil	cla	neg	Hem	PYR	CP4	KLd	Turn	TCA
					166.49-167.74 Brecciated hem altered w/ use chl + possible epl - distinct green zones as seen at 162.80m base w/BRX + Lem. chl cal + gty veins SOTCA. Blakely pyrox epi zone at 168.90m. Increased at 167.03 w/ US PL chl + hem vein. Grades into more mafic Dio type rock w/ 1-2mm bio blebs, brown fault max then gets finer ground at VCTC of fault.																						
167.74	169.93		FLT	FLTy	Fault w/ low angle gouge in chl + ser alt bio. Might have been Dio - has 1-3mm bio blebs at 15TCA cut by SOTCA chl + hem veins. 0.5-0.7cm gty. Hemot. 169.43m SOTCA w/ blebs of pyrox. Gouge + due to 168.60. then oxidized from 169.93m 169.83m 2-4mm bio blebs in gty. Ox slants at 168.60m.	167.74	169.93	FLTy	21212	1	0	F	4	1	1	3	3	-	2	3		1	2				GOV 15
169.93	172.46		FLT	MSx	Blackish brecciated mafic Diomite? Continuation of above fault belt in more competent brittle rock FG bio w/ local weak foliation - cant see fds. Locally intensely clay alt along fault. Kspar alt at 171.80m 1cm gty vein at 40TCA - Kspar alt around vein and increased ser. Massive brecciated gty vein. 2cm at 171.90m Hem on some fault surfaces	169.93	170.85	DIOxM	21213	3	0	P	4	-	-	4	2	-	3	3	-	-	05				
						170.85	172.46	DIOxM	21214	2	0	F	4	-	-	4	2	1	3	2	-	05	05				
								BLK	21215																		
172.46	173.24		MDIO		Schistified mafic Dio w/ bio - ser. FOL cut by fine cal stringers sub parallel to x cutting fol. 2cm gty vein w/ Kspar on VCTC + blakely pyrox at 173.04m SOTCA	172.46	173.24	MDIO	21216																		FOL 40 UN 41 UN 70 UN 50
173.24	175.57		DIO	DIOKq	Intensely schistified DIO with very strong pervasively Kspar alteration. From 173.24-173.38 pervasively oxidized + clay altered. Goes to ser altered leather zone to 173.70 where mafic (bio) are intense to 174.12m where Kspar increases. PL cal gty at 30TCA in mafic zone w/ Kspar on rim. Assoc w/ marginal vein dispar in gty vein! x cut by discharges at 40TCA in Kspar alt zone gty veins at SOTCA. 20-40% pyrox x cutting gty veins at 70TCA also have pyrox 30-50%	173.24	174.12	DIOxM	21217	2	0	F	2	-	05	3	1	1	3	1	-	1					UN 30 UN 40 UN 50 UN 70
						174.12	175.57	DIOxK	21218	1	0	F	2	-	-	1	05	4	4	1	-	(S)					
								(1936)																			



Logged by: J. Kellner / K. Dodd.

## Date Finished: \_\_\_\_\_

at 184.20m. Atmosphere w/ 0.5-1cm capw  
clouds. Faulted calve at 182.20. Bibby says w/  
his at 182.25m. generally weak des pgn  
across north.



DDH# 11MP-08  
Logged by: J. Kullner Katie Dodd

Pacific Ridge Exploration 2011

Date Started: \_\_\_\_\_  
Date Finished: \_\_\_\_\_

Logged by: J. Kummer Name: Kummer																													
From	To	Length	Rock Unit		Lithology/Mineralization	Samples		Int	Tag #	Oxidation			Structure		Type 1	Type 2	At	TCA °	Alteration					Mineralization					
			Gen	Full		From	To			Intens	Colour	Form	Frac	BX					BL	CHL	SER	KSP	SIL	CLAY	MT	HEM	PY	CPY	BL
																			1to5	1to5	1to5	1to5	1to5	1to5	%	%	%	%	%
184.60	185.42		DIO	DIOKx	Metamorphosed Mg-F-G Bco w/ increasing chl down hole var alt of fcls - light green. minor Qtz veins 1 mm Pl at 50TCA. Orange yellow lemon frods In' - no Ksp alt from 184.60 - 184.80 w/ 7% disp. pyr. UCTC w/ Duz UOTCA. UCTC marked by 5cm of intense Ksp + Qtz veins at 50TCA	184.60	185.42	DIOK	21228 <sup>(291)</sup>						VU		185.20	50	2	2	3	4	5	-	-	0.2	3		
															UOTC		184.60	40											
185.42	185.90		Bx		Brecciated DIO Broken core w/ y.B. ox on fract. surfaces. Varying chert supports Bx from 185.64-185.90 w/ Qtz calc veins + fract UOTCA	185.42	185.90	DIOB	21229 <sup>(222)</sup>	3	9B	P	4	4	FR		185.70	5	3	-	2	-	3	2	-	-	0.5		
185.90	186.88		QTZ	QTZb	Massive Qtz rich unit w/ intense 3cm Ksp alt at UCTC w/ BRX. LCTC of Ksp marked by 0.7cm Pl Qtz veins at UOTCA. Zone is weakly brecciated, cut by network of fine lim veins at 10TCA and 70TCA. 70 cuts 10. Blebby pyr + pyr in and along Qtz veins at 20+40TCA. Ox + Qtz veins increase after 186.60-186.88m 0.5cm w/ Ksp on veins	185.90	186.88		21230 <sup>(177)</sup>	3	0Y	F	2.5	3	VU		185.93	40	4	1	2	2	5	-			2		
															VN		186.4	10											
															VN		186.15	70											
															VN		186.5	20											
															VN		186.55	40											
															VN		186.70	50											
186.88	188.0				Disseminated weakly foliated DIO with var alt of fcls + chl alt of bio. Weak pervasive Ksp alt. Fol at 50TCA. Patchy ox on fracture surfaces. + along fine lim veins. Pl 0.3-0.6 cm Qtz veins w/ pyr along veins. Diss pyr weak - most along Qtz veins.	186.88	188.0		21231 <sup>(490)</sup>	1	0Y	F	2	1	VN		187.75	50	3	2	2	1	4	-	-	-	2		
															FOL		187.8	50											



DDH# 11 MP-08  
Logged by: J. Kellner/K. Rodd

Pacific Ridge Exploration 2011

Date Started: \_\_\_\_\_  
Date Finished: \_\_\_\_\_

From	To	Length	Rock Unit		Lithology/Mineralization	Samples				Oxidation			Structure		At	TCA °	Alteration						Mineralization				
			Gen	Full		From	To	Int	Tag #	Intens	Colour	Form	Frac	BX			Type 1	Type 2	BL	CHL	SER	KSP	SIL	CLAY	MT	HEM	PY
												1to5			1to5			1to5	1to5	1to5	1to5	1to5	%	%	%	%	%
188.0	190.92		DIO	DIOKq	silicified intensely Kspar altered Dio w/ minor zones of bleached ser altered Dio as from 186.88-188.0m. Zone cut by NS fine dark sil veins w pyr ~ 60% of material in veins ~ 30% sharpened in pyr ~ 5% overall Hem + lim on fract. surfaces. Qtz veins areas after 189.68m 2mm-1cm Plat 40TCA	188.0	189.4	7287	21232	0.2	0	F	1	-	VN		189.0	30	-	0.5	1	5	4	-	-	-	5
						189.40	190.92	798	21233	0.5	0	F	2	-	VN		189.60	40	-	1	1	5	4	-	-	-	5
						STD	CDN	6543	21234																		
190.92	198.10				strongly silicified chls ser altered light green foliated Dio. Qtz calc yellow chlorite veins w/ 1-4mm Kspar nubes 1140k at 60TCA. Patchy ox on fracture surfaces. Dio bleached hem. Pyr veins at 192.62m 35TCA 192.78-192.90m - Kspar flooding w/ weak dis pyr. local hem blebs	190.92	192.90	250	21235	1	0	F	1	-	VN		192.62	30	3	2	3	1	3.5		1	1	
						192.90	194.90	176	21236	1	0	F	1	-	VN		195	60	3	2	3	1	3.5		1	1	
						194.90	196.90	180	21237	1	0	F						3	2	3	1	3.5		1	1		
						196.90	198.10	344	21238	1	0	F	↓	↓				3	2	3	1	3.5		1	1		
						DUP	21238	311	21239																		
198.10	198.94		DIO	DIOKq	Intensely Kspar alt'd Dio as from 188-190.92m. 4mm NS Pyr vein at 198.23m. Broken crumbly frst at 198.35m w/ pyr cubes along surface. Pyr + Qtz veins at LTC from 198.88- 198.94m at 60TCA. Qtz veins at 1cm removed w/ 2mm of pyr. Pyr 11 to FOL from 198.64-198.94m.	198.10	198.94	7968	21240	0.2	0	F	1	-	FOL		198.70	60	-	-	-	S	4	-	-	-	4
															VN		198.90	60									
															UCL		198.10	90									
															LTC		198.94	60									



From	To	Length	Rock Unit		Lithology/Mineralization	Samples		Int	Tag #	Oxidation		Structure		Type 1	Type 2	At	TCA °	Alteration					Mineralization								
			Gen	Full		From	To			Intens	Colour	Form	Frac					BX	BL	CHL	SER	KSP	SIL	CLAY	MT	HEM	PY	CPY	BL		
										1to5								1to5	1to5	1to5	1to5	1to5	1to5	%	%	%	%	%			
198.94	205.44	6.55	DIO	DIOg	Diabase A/ified with tomat sericite altered diabase 202.10 - 202.90 mod foliation @ 45° TCA, xcut qtz + Ksp rimmed in 0.7-1.2cm wide @ 60° TCA, locally 10-20cm apart 201.90 - 204.00, ore is pale green, limonite along fract, xcut frac @ 45° TCA locally, Py (1%) disseminated in vein @ 199.25 and along foliations locally in similar vein Ksp + qtz every 50-75cm	198.94	200.57	1.63	24891	1	YB	fine	1	N	vn		199.25	30°	3	1	3	1.5	3	0	0	0	7	0	0		
						200.57	202.10	1.53	24892																						
						202.10	203.79	1.69	24893																						
						203.79	205.44	1.70	24894																						
						DUP			24895	↓	↓	↓	↓	↓				↓	↓	↓		↓	↓	↓	↓	↓	↓	↓			
205.44	206.22	0.83	FLT	FLT	fault UC 30cm gouge/clay @ 70° TCA, milled 10x10cm core angle, alt/roar, yellow-pale green, fine @ 70° and mid-pore TCA	205.44	206.22	0.83	24896	0	0	0	3	N	fault		205.44	70°	3	1	3	0.5	1	3	0	0	0.5	0	0		
206.22	207.62	2.40	DIO	DIO	Diabase as described 198.94-205.44, xcut vein, dark green (Ksp?) @ 70° muddy grey qtz vein @ 30° TCA (vein 0.2-1.2cm wide)	206.22	207.62	1.20	24897	0	0	0	1.5	N				3	1	3	0.5	1	3	0	0	0.5	0	0			
						207.62	208.62	1.20	24898																						
208.62	210.75	2.13	VN	VNb	Vein breccia dark grey opaque qtz matrix w/ large angular clasts, UC @ 35° TCA sections of fault @ LC of vein @ 209.00 and 209.75, light grey opaque qtz stockwork in eddington box, milled core @ 209.70 @ 70° TCA, v. bloody ore 210.00-210.75	208.62	209.75	1.13	24899	0	0	0	1.5	Y	vn		208.62	70°	2	1	3	0.5	3	3	0	0	0	0	0		
						209.75	210.75	1.00	24900	↓	↓	↓	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
210.75	212.04	1.29	DIO	DIO	Diabase as described 198.94-205.44, mod bt w/ foliations xcut vein @ 80 and 40° TCA qtz	210.75	212.04	1.28	24901	0	0	0	0.5	N	vn	qtz	211.00	80°	3	1	3	0.5	3	0	0	0	0	0	0		
															vn	qtz	211.70	40°													
212.04	218.15	6.11	DIO	DIOg	Diabase w/ qtz veins Diabase alt diabase w/ high density stockwork dark grey to white opaque qtz veins, veins @ 30° or 60° TCA 0.5-5cm wide, vn have Ksp alt halos, higher density vein Ksp alt., for dissem Py 1% in diabase and on vein margins throughout core, frac surfaces often have clean grey qtz surfaces, qtz opaque white vn 215.44-215.54 w/ country rock irregular frag pal % disseminated on margin @ 30° TCA, idiosyncratic vein @ 215.54-215.64 matrix support outcrop, 1-2cm long frag, 215.64-216.75 mod blocky ore w/ higher Ksp alt w/ qtz vein density, fault @ 216.85-216.90 @ 60° TCA milled / clay / gouge	212.04	213.50	1.46	24902	0	0	0									2.5	1	3	1	3	0	0	0	10	0	0
						213.50	214.54	1.54	24903																						
						214.54	215.64	1.10	24904				1	Y																	
						STD			24905				2	Y								2	3.5	2.5			↓	↓			
						215.64	216.80	1.16	24907				3	Y	fault		45°					3	2	1		↓	↓	↓			
						216.80	218.15	1.35	24908	↓	↓	↓	3	Y				↓	↓	↓		3.5	2	↓		↓	↓	↓			