✓ indicates data have been entered in PAC2024-042-May-Vector-CentralCoastEdna109.xls on SEAL laptop

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ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed: Time	When bottles closed: Lat	When bottles closed: Lon	When bottles closed: Bottom Depth (sounder)	END TIME (CTD out of water)	Target Bottle Depth (payout depth)	Niskin Bottle Label	MCT number Bag label (place stickers on cartridge)
17May2024	W-9	51	755	7:54	53°51.6518	130°33.0455	42m	8:03	37m	Failed	
✓	W-9	52	841	841	53°51.6481	130°33.0292	43m	8:49	38m	1	1001
	↓	↓	↓	↓	↓	↓	↓	↓	↓	2	1002
										3	1003
									2.5m	4	1004
									2m	5	1005
									2m	6	1006
✓ 17-MAY-24	W-24	53	1023	1022	53 52.9480	130 32.0882	27m	1031	22m	1	1007 → didn't trigger
									↓	2	1008
										3	1009
									2m	4	1010
									2m	5	1011
									2m	6	1012
✓ 17May2024	W-20	54	1119	1119	53 54.0053	130 34.1800	42.5m	1128	37m	1	1013
										~~2~~	did not trigger
										3	1015
									2m	4	1016
									2m	5	1017
									2m	6	1018
✓ 18May24	W-23	55	1246	1245	53.782715	130.623857	17m	1254	12m	1	
	→	Did not trigger		too shallow. Re-programmed.							
✓ 18May24	W-23	56	1305	1304	53.782080	130.624080	17m	1306	12m	1	Triggered at MCT 1053
↓	↓		↓	↓	↓	↓	↓	↓	12m	2	10m; MCT 1054
									12m	3	↓ MCT 1055
									2m	4	missed MCT 1056
									2m	5	at 0.8-1 ↓ MCT 1057
									2m	6	NO water

123 deep

shallow 47

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ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed				END TIME (CTD out of water)	Target Bottle Depth (payout depth)	Niskin Bottle Label	MCT number Bag label place sticker on cartridge
				Time	Lat	Lon	Bottom Depth (sounder)				

ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed: Time	Lat	Lon	Bottom Depth (sounder)	END TIME (CTD out of water)	Target Bottle Depth (pump out depth)	Niskin Bottle Label	MCT number Bag label place sticker on cartridge
✓ 18 May 2024	W-25	57	1348	1347	53.833136	130.689947	21m	1359	17m	1	MT.1058
										2	1059
										3	1060
									2m	4	1061
										5	1062
										6	1063
										—	
✓ 18 May 2024	W-19	58	1455	1454	53.833102	130.689930	40.7m	1502	35.7m	1	MCT 1064
									35.7	2	1065
									35.7	3	1066
									2m	4	1067
									2m	5	1068
									2m	6	1069
✓ 18 May 2024	W-13	59	1759	1759	53.720817	130.465437	92m	1809	87m	1	1070
										2	1071
										3	1072
									2m	4	1073
							triggered at surface →			5	1074
										6	1075

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ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed				END TIME (CTD out of water)	Target Bottle Depth (payout depth)	Niskin Bottle Label	MCT number Bag label place sticker on cartridge
				Time	Lat	Lon	Bottom Depth (sounder)				

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ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed: Time	Lat	Lon	Bottom Depth (sounder)	END TIME (CTD out of water)	Target Bottle Depth (payout depth)	Niskin Bottle Label	MCT number Bag label place sticker on cartridge
✓ 19May2024	W-17	60	~~1752~~	1745	53.512654	130.496328	21.8	1752	16.8	~~1~~	~~1100~~ Did not
										~~1~~	~~1101~~ trigger
✓ 19May24	W-17	61	1800	1800	53.512793	130.496574	21.7	1806	16.7	1	1100
									↓	2	1101
										3	1102
									2m	4	1103
									↓	5	1104
										6	1105

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ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed				END TIME (CTD out of water)	Target Bottle Depth (payout depth)	Niskin Bottle Label	MCT number Bag label place sticker on cartridge
				Time	Lat	Lon	Bottom Depth (sounder)				

ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed: Time	Lat	Lon	Bottom Depth (sounder)	END TIME (CTD out of water)	Target Bottle Depth (payout depth)	Niskin Bottle Label	MCT number Bag label place sticker on cartridge	
20May24	W-5	62	8:13	8:12	53.712368	130.437513	47.6m	821	42.6m	1	1106	
										2	1107	
										3	1108	
									2m	4	1109	
										5	1110	
										6	1111	
20May24	W-8	63	900	859	53.750694	130.418644	113m	912	108m	1	1112	
										2	1113	
										3	1114	
									2m	4	1115	
										5	1116	
										6	1117	
20May24	OSD-3	64	1008	1008	53.729650	130.368138	150m		145m	N/A	No water collected	* 1118 blank (DNA)
20May24	W-15	65	1055	1054	53.782915	130.241370	121m	1109	121m	1	1119*	
										2	1120	
										3	1121	
									2m	4	1122	
									2m	5	1123	
									2m	6	1124	
~~20May24~~	~~W-12~~	~~67~~	~~1212~~	~~1212~~	~~53.804902~~	~~130.441948~~	~~71m~~	~~1222~~	~~60m~~	~~?~~		
"	OSD-2	68	1301	1301	53.833934	130.512323	81m	1309	76m	N/A	No water	
20May24	W-9	69	1342	1342	53.860481	130.550583	43.5m	1350	38.5m	1	1131	Recast
										2	1132	
										3	1133	
									2m	4	1134	
									2m	5	1135	
									2m	6	1136	
20May24	OSD-1	70								N/A		

OVER

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ECO Water sampling - Vector

Date	Site	Cast #	START TIME (CTD in water)	When bottles closed: Time	When bottles closed: Lat	When bottles closed: Lon	When bottles closed: Bottom Depth (sounder)	END TIME (CTD out of water)	Target Bottle Depth (payout depth)	Niskin Bottle Label	MCT number Bag label place sticker on cartridge
20-may 2024	W-12	67	12:12	12:12	53.804902	-130.441948	71m	12:22	60m	1	1125
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	2	1126
										3	1127
									2m	4	1128
									1	5	1129
									↓	6	1130
20 May 2024	OSD-1	70	1535	1535	53.260568	130.550577	219	1553	214	N/A	No water sample

✓ indicates data have been entered into PAC2024-042-May-Vector-Central Coast_edna109.xls

Niskin Water Sampling ... e Boat

Date: MAY 17/24 | Site: W-7 | Crew: Michelle P, Shannon, Beatrice, Kristen

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	~~Nalgene Bottle Label~~ SAMPLE ID	S-R Sample #
1	13:48	53°54.800	130°40.563	27m	Bottom	20m		1019	
2	~~1337~~ 1400	53°54.811	130°40.607	27m	Bottom	~~20m~~ 18m		1020	Boat drifting
3	1408	53°54.821	130°40.661	27m	Bottom	20		1021	
4	14:17	53°54.824	130°40.668	77.9ft	surface	2m		1022	
5	14:20	53°54.818	130°40.683	77.4 feet	surface	2m		1023	
6	14:25	53°54.812	130°40.612	70.6ft	surface	2m		1024	
CTD Castaway Done? Yes No						Blank	NA		

Notes:
Blank for the day done on vector b/c we did the morning on the vector and the afternoon on the small boat
~~Did surface instead of bottom. D'oh~~
depth sounder in feet
CTD attached to Niskin on first cast

Date: MAY 17 2024 | Site: W-11 | Crew: MP, SS, BP, KW

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	~~Nalgene Bottle Label~~ SAMPLE ID	S-R Sample #
7	15:06	53°52.764	130°31.530	29.0ft	surface	2m	16	1025	
8	15:10	53°52.800	130°30.740	25.6ft	surface	2m	23	1026	Peener leaking
9	15:15	53°52.834	130°30.851	29.5ft	surface	2m	24	1027	
CTD Castaway Done? Yes No						Blank	NA		

Notes: CTD cast done first
Niskin # 23 has a leaky peener
Did surface instead of bottom. D'oh

** only one blank per site (1 blank per 6 or 3 casts)

Niskin Water Sampling : Boat

Date: may 17th 2024				Site: W-21				Crew: SS, MP, BP, KW	
	When bottle closed								
Cast #	Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	~~Nalgene Bottle Label~~ SAMPLE ID	S-R Sample #
10	15:45	53°51.609	130°30.761	37.5(ft)	surface	2m	16	1028	
11	15:50	53°51.620	130°30.747	38.7 (ft)	surface	2m	24	1029	
12	15:55	53°51.623	130°30.748	38.7(ft)	surface	2m	16	1030	
CTD Castaway Done? (Yes) No						Blank	NA		

Notes:
Should have done 3x bottom but did surface by mistake

Date: may 17th 2024				Site: W-10				Crew: SS, BP, KW, TN		
	When bottle closed									
Cast #	Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	~~Nalgene Bottle Label~~ SAMPLE ID	MCT #	S-R Sample #
13	18:12	53°50.565	130°30.884	23 ft	bottom	18 ft	16	1031	FAIL	
14	18:14	53° 50.559	130° 30.850	23 ft	bottom	18 ft	16	~~1032~~ 1031	MCT 1031	
15	18:18	53° 50.564	130° 30.871	23 ft	bottom	18 ft	23	~~1033~~	MCT 1032	
~~16~~ 16	18:22	53° 50.565	130° 30.881	23 ft	bottom	18 ft	16	1033	MCT # 1033	
~~17~~								~~1033~~		
~~18~~										
CTD Castaway Done? (Yes) No						Blank	NA			

Notes:

~~** only one blank per site (1 blank per 6 or 3 casts)~~

Date: May 18th 2024 | Site: W-14 | Crew: KW, MP, SS, BP

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label SAMPLE ID	MCT #	S-R Sample #
1	08:05			19.8m	Bottom	15.0m	16		1035	
2	08:13	53 49.814	130 38.762	20.0m	Bottom	15.0m	11		1036	
3	08:18	53°49.813	130°38.748	20.0m	Bottom	15.0m	24		1037	
4	08:23	53°49.818	130°38.783	↓	Surface	2.0m	16		1038	
5	08:28	53°49.817	130°38.772	↓	Surface	2.0m	11		1039	
6	08:~~38~~39	53°49.814	130°38.777	↓	Surface	2.0m	24		1040	
CTD Castaway Done? Yes No						Blank	NA		~~MCT~~	

Notes:

↳ Field blank done @ this site MCT 1034

Date: May 18th 2024 | Site: W-2 | Crew: SS, MP, KW, BP

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label	MCT #	S-R Sample #
7	09:34	53 47.347	130 34.660	55.8ft	Bottom	15m	24		1041	
8	09:39	53 47.346	130 34.691	49.5 ft	Bottom	15m	11		1042	
9	9:42	53°47.355	130°34.680	51.5 ft	Bottom	15m	16		1043	
10	9:47	53°47.343	130°34.680	52.9ft	Surface	2m	24		1044	
11	9:50	53°47.339	130°34.681	50.7ft	Surface	2m	16		1045	
12	10:02	53°47.336	130°34.680	50.4ft	Surface	2m	24		1046	
CTD Castaway Done? Yes No						Blank	NA			

Notes:

** only one blank per site (1 blank per 6 or 3 casts)

Date: May 18, 2024 | Site: W 3 | Crew: MP, BP, KW, SS.

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label	MCT#
13	10:36	53°46.390	130°29.178	48 ft	Bottom	8m	24		1047
14	10:40	53°46.392	130°29.177	48.3 ft	Bottom	8m	16		1048
15	10:44	53°46.393	130°29.177	47.8 ft	Bottom	8m	24		1049
CTD Castaway Done? Yes No						Blank	NA		

Notes:

Date: May 18, 2024 | Site: W 18 | Crew: MP, BP, KW, SS

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label	MCT#
16	11:15	53°47.316	130°32.182	41.3 ft	Bottom	10m	24		1050
17	11:20	53°47.319	130°32.191	49 ft	Bottom	10m	16		1051
18	11:32	53°47.320	130°32.184	43.7 ft	Bottom	10m	24		1052
CTD Castaway Done? Yes No						Blank	NA		

Notes:

** only one blank per site (1 blank per 6 or 3 casts)

W17 - ~116 feet. To deep for us. Potential vector site
W1 → too ~~treacherous~~ choppy @ 11:15 on May 19

Niskin Water Sampling ... e Boat

Date: May 19th 2024				Site: W-16				Crew: SS, KW, BP, MP	
	When bottle closed								
Cast #	Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label	SAMPLE ID
1	8:45	53°36.051'	130°33.591	6.5 m	Bottom/	1.5 m	24		1077
2	8:54	53°36.021'	130°33.591	6.7 m	" surface	1.5 m	23		1078
3	8:57	53°36.060'	130.33591	6.7 m	"	1.5 m	24		1079
~~4~~									
~~5~~									
~~6~~									
CTD Castaway Done? Yes No						Blank	NA		

Notes: Blank done at this site

Date: MAY 19 2024				Site: W6				Crew: SS, BP, KW, MP	
	When bottle closed								
Cast #	Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label	
4	10:27	53°32.053	130°31.511	14.6	Bottom	10m	24		1080
5	10:30	53°32.063	130°31.544	14.6	"	10m	23		1081
6	10:33	53°32.067	130°31.511	14.6	"	10m	16		1082
7	10:37	53°32.055	130°31.497	48.2ft	Surface	2m	24		1083
8	10:40	53°32.061	130°31.508	48.2ft	"	"	23		1084
9	10:44	53°32.056	130°31.517	48.3ft	"	"	16		1085
CTD Castaway Done? Yes No						Blank	NA		

Notes:

** only one blank per site (1 blank per 6 or 3 casts)

Date: MAY 19 2024 Site: W22 Crew: BP, KW,

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label SAMPLE ID	~~Smith Root~~ S-R Name	S-R Sample #
10	11:54	53°30.166	130°23.668	15m	Bottom	10m	23			1086
11	11:58	53°30.161	130°23.662	15m	"	10m	16			1087
12	12:00	53°30.174	130°23.661	15m	"	10m	24			1088
13	12:04	53°30.165	130°23.667	~~am~~ 15	Surface	2m	23			1089
14	12:07	53°30.171	130°23.663	" 15	Surface	2m	16			1090
15	12:11	53°30.173	130°23.669	15	Surface	2m	24			1091
CTD Castaway Done? Yes No						Blank	NA			

Notes:
checked out W-4 but it is too shallow to access

Date: MAY 19 2024 Site: ~~W4~~ W-4-Alternate Crew: SS, BP, KW, MP

Cast #	When bottle closed: Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label SAMPLE ID	S-R Name	S-R Sample #
~~16~~	~~13:12~~	~~53°27.925~~	~~130°24.450~~	~~22ft~~	~~bottom/surface~~	~~2m~~	~~24~~			~~1092~~
~~17~~	~~13:14~~	~~53°27.922~~	~~130°24.447~~	~~22ft~~	~~bottom/surface~~	~~2m~~	~~16~~			~~1093~~
18	13:18	53°27.913	130°24.451	22ft	bottom/surface	2m	23			1094
19	13:26	53°27.924	130°24.439	22ft	"	2m	24			1095
~~20~~ 17	13:14	53°27.922	130°24.447	22ft	"	2m	16			1096
CTD Castaway Done? Yes No						Blank	NA			

Notes:
checked out W-4 but it was too far up the channel and too shallow so we came out to deeper water and collected 3 bottles
Bottle 16 leaky
*Had some pump issues (in + out backwards)

** only one blank per site (1 blank per 6 or 3 casts)

Niskin Water Sampling e Boat

Date: May 19, 2024				Site: W1				Crew: KW, BP, SS, MP	
	When bottle closed								
Cast #	Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label	MCT#
20	14:10	53°30.259	130°28.033	23.5 ft	bottom	2m.	24		1097
21	14:13	53°30.260	130°28.026	22 ft	bottom	2m	16		1098
22	14:16	53°30.264	130°28.023	19.1 ft	bottom	2m	23		1099
CTD Castaway Done? Yes No						Blank	NA		

Notes:

Date:				Site:				Crew:	
	When bottle closed								
Cast #	Time	Lat	Lon	Bottom Depth (sounder)	Depth Class	Target Bottle Depth (m)	Niskin Bottle Label	Nalgene Bottle Label	
CTD Castaway Done? Yes No						Blank	NA		

Notes:

** only one blank per site (1 blank per 6 or 3 casts)