

## **Appendix A. GPS Coordinates of Survey Locations**

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Location ID	Target latitude	Decimal degrees	Target longitude	Decimal degrees	Sampling latitude	Decimal degrees	Sampling longitude	Decimal degrees	Location ID (and tow #)	Estimated distance from target (ft)	Estimated distance from target (m)				
G1b	47	34.14	47.569	122	20.793	122.3466	47	34.136	47.56893	122	20.785	122.3464	G1b1	41	12.5
							47	34.137	47.56895	122	20.798	122.3466	G1b2	27.7	8.4
							47	34.137	47.56895	122	20.79	122.3465	G1b3	22.2	6.8
							47	34.135	47.56892	122	20.793	122.3466	G1b4	30.5	9.3
							47	34.135	47.56892	122	20.791	122.3465	G1b5	31.7	9.7
G2b	47	34.045	47.56742	122	20.849	122.3475	47	34.039	47.56732	122	20.852	122.3475	G2b1	38.7	11.8
							47	34.04	47.56733	122	20.851	122.3475	G2b2	31.5	9.6
							47	34.038	47.5673	122	20.849	122.3475	G2b3	42.5	13.0
							47	34.038	47.5673	122	20.85	122.3475	G2b4	42.9	13.1
							47	34.045	47.56742	122	20.852	122.3475	G2b5	12.4	3.8
G3b	47	34.035	47.56725	122	20.989	122.3498	47	34.046	47.56743	122	20.989	122.3498	G3b1	67.5	20.6
							47	34.044	47.5674	122	20.988	122.3498	G3b2	54.6	16.6
							47	34.048	47.56747	122	20.982	122.3497	G3b3	84.1	25.6
							47	34.055	47.56758	122	20.994	122.3499	G3b4	126.1	38.4
							47	34.057	47.56762	122	20.987	122.3498	G3b5	135.1	41.2
G4b	47	33.918	47.5653	122	20.868	122.3478	47	33.917	47.56528	122	20.874	122.3479	G4b1	25.4	7.7
							47	33.918	47.5653	122	20.87	122.3478	G4b2	8.7	2.7
							47	33.913	47.56522	122	20.865	122.3478	G4b3	33.3	10.1
							47	33.918	47.5653	122	20.862	122.3477	G4b4	25	7.6
							47	33.924	47.5654	122	20.861	122.3477	G4b5	46.8	14.3
G5b	47	33.918	47.5653	122	20.932	122.3489	47	33.929	47.56548	122	20.933	122.3489	G5b1	66.9	20.4
							47	33.925	47.56542	122	20.931	122.3489	G5b2	42.6	13.0
							47	33.921	47.56535	122	20.926	122.3488	G5b3	30.4	9.3
							47	33.925	47.56542	122	20.926	122.3488	G5b4	48.8	14.9
							47	33.93	47.5655	122	20.925	122.3488	G5b5	79	24.1
G6b	47	33.766	47.56277	122	20.799	122.3467	47	33.764	47.56273	122	20.804	122.3467	G6b1	24.1	7.3
							47	33.763	47.56272	122	20.805	122.3468	G6b2	30.7	9.4
							47	33.764	47.56273	122	20.803	122.3467	G6b3	20.5	6.2
							47	33.762	47.5627	122	20.794	122.3466	G6b4	31.7	9.7
							47	33.763	47.56272	122	20.793	122.3466	G6b5	30.8	9.4
G7b	47	33.662	47.56103	122	20.719	122.3453	47	33.657	47.56095	122	20.718	122.3453	G7b1	30.7	9.4
							47	33.659	47.56098	122	20.717	122.3453	G7b2	20.2	6.2
							47	33.668	47.56113	122	20.721	122.3454	G7b3	37.4	11.4
							47	33.664	47.56107	122	20.714	122.3452	G7b4	24.3	7.4
							47	33.666	47.5611	122	20.721	122.3454	G7b5	25.6	7.8
G8b	47	33.683	47.56138	122	20.84	122.3473	47	33.683	47.56138	122	20.838	122.3473	G8b1	8.6	2.6
							47	33.683	47.56138	122	20.834	122.3472	G8b2	24.6	7.5
							47	33.681	47.56135	122	20.832	122.3472	G8b3	35.2	10.7
							47	33.684	47.5614	122	20.838	122.3473	G8b4	10.2	3.1
							47	33.683	47.56138	122	20.835	122.3473	G8b5	20.5	6.2
G9b	47	33.402	47.5567	122	20.457	122.341	47	33.408	47.5568	122	20.454	122.3409	G9b1	39	11.9
							47	33.404	47.55673	122	20.458	122.341	G9b2	12.9	3.9
							47	33.405	47.55675	122	20.458	122.341	G9b3	19.5	5.9
							47	33.402	47.5567	122	20.454	122.3409	G9b4	12.5	3.8
							47	33.399	47.55665	122	20.457	122.341	G9b5	18.3	5.6

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Location ID	Target latitude	Decimal degrees	Target longitude	Decimal degrees	Sampling latitude	Decimal degrees	Sampling longitude	Decimal degrees	Location ID (and tow #)	Estimated distance from target (ft)	Estimated distance from target (m)				
G10b	47	32.882	47.54803	122	20.304	122.3384	47	32.881	47.54802	122	20.296	122.3383	G10b1	33.7	10.3
							47	32.884	47.54807	122	20.3	122.3383	G10b2	20.5	6.2
							47	32.882	47.54803	122	20.305	122.3384	G10b3	4.3	1.3
							47	32.881	47.54802	122	20.3	122.3383	G10b4	17.7	5.4
							47	32.88	47.548	122	20.294	122.3382	G10b5	42.9	13.1
G11b	47	32.742	47.5457	122	20.212	122.3369	47	32.74	47.54567	122	20.217	122.337	G11b1	24	7.3
							47	32.746	47.54577	122	20.21	122.3368	G11b2	26.4	8.0
							47	32.743	47.54572	122	20.209	122.3368	G11b3	14.2	4.3
							47	32.743	47.54572	122	20.203	122.3367	G11b4	37.4	11.4
							47	32.745	47.54575	122	20.208	122.3368	G11b5	24.7	7.5
G12b	47	32.55	47.5425	122	20.134	122.3356	47	32.549	47.54248	122	20.136	122.3356	G12b1	10.8	3.3
							47	32.545	47.54242	122	20.129	122.3355	G12b2	37.3	11.4
							47	32.562	47.5427	122	20.155	122.3359	G12b3	113.9	34.7
							47	32.573	47.54288	122	20.167	122.3361	G12b4	196.4	59.9
							47	32.567	47.54278	122	20.163	122.3361	G12b5	158.2	48.2
G13b	47	32.298	47.5383	122	19.794	122.3299	47	32.261	47.53768	122	19.716	122.3286	G13b1	392.9	119.8
							47	32.254	47.53757	122	19.712	122.3285	G13b2	430.5	131.2
							47	32.247	47.53745	122	19.758	122.3293	G13b3	342.4	104.4
							47	32.226	47.5371	122	19.746	122.3291	G13b4	482.5	147.1
							47	32.269	47.53782	122	19.722	122.3287	G13b5	345.5	105.3
G14b	47	32.063	47.53438	122	19.297	122.3216	47	32.07	47.5345	122	19.322	122.322	G14b1	111.3	33.9
							47	32.067	47.53445	122	19.321	122.322	G14b2	101.6	31.0
							47	32.069	47.53448	122	19.326	122.3221	G14b3	125	38.1
							47	32.068	47.53447	122	19.32	122.322	G14b4	99.6	30.4
							47	32.071	47.53452	122	19.323	122.3221	G14b5	117.8	35.9
G15b	47	31.444	47.52407	122	18.544	122.3091	47	31.444	47.52407	122	18.538	122.309	G15b1	24.6	7.5
							47	31.454	47.52423	122	18.542	122.309	G15b2	61.2	18.7
							47	31.45	47.52417	122	18.538	122.309	G15b3	44.8	13.7
							47	31.444	47.52407	122	18.54	122.309	G15b4	17.2	5.2
							47	31.448	47.52413	122	18.543	122.3091	G15b5	24.6	7.5

Highlighted stations slightly re-located because of difficulties collecting acceptable tows in targeted locations.