Soil Sampling Results – Expanded Northern and Southern Areas, Exide Technologies, Vernon CA

Data Explanation

Each residential property was given a Sample Identification number, which is associated with the set of data for each residential property sampled. Numerous samples were collected from each property at various sampling locations. For each sampling location, discrete samples were collected from 0-1”, 1-3”, 3-6”, 6-12” and 12-18” below ground surface (bgs). The samples were analyzed for lead content and the results are presented in parts per million (ppm). For each set of data associated with a Sample Identification number, the depths of sample collection are presented, as well as the summary statistics.

As an example, Sample Identification number ENA-3 has six sample locations and five discrete soil samples were collected at each of the six sampling locations.

Sample Identification Number

Sample Locations

Summary Statistics for Each Depth Interval

Depths

ENA-3 / Sample Depth	1D	2D	3D	4D	5D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	190	112	138	125	288	193	65	6	174	68	243
1-3"	173	104	126	132	288	178	66	6	167	69	236
3-6"	174	304	146	105	273	182	76	6	197	80	277
6-12"	147	98.7	151	154	283	255	71	6	181	75	256
12-18"	159	90.3	172	101	213	65	57	6	133	59	193

Lead Data in ppm for Discrete Samples Collected

To distinguish between where samples were collected at the property, samples were named as follows:

- Samples ending with “D” (Discrete) were located within open yard areas;
- Samples starting with “EZ” (Exclusion Zone) were located within 5 feet of a driveway, painted fence or structure;
- Samples starting with “DZ” (Drip Zone) were collected from the ground next to the house or other structure;
- Samples starting with “DS” (Down Spout) were collected if the main house had a downspout or gutter that drained to a soil area; and
- Samples ending with “D-PA” (Planting Area) were located within garden areas.

For the example of Sample Identification number ENA-3, there were 5 sample locations within open yard areas (1D through 5D) and one drip zone sample (DZ-1D). Sample location 1D had a concentration of 190 ppm lead at a depth of 0-1 inch, a concentration of 173 ppm lead at a depth of 1-3 inch, a concentration of 174 ppm lead at a depth of 3-6 inch, and so on.

Northern Expanded Area Data

EXPANDED NORTHERN AREA DATA

ENA-1 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D-PA	9D-PA	10D-PA	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	143	130	129	115	108	131	132	91.3	59.3	72.4	195	200	42	12	126	27	152
1-3"	150	132	130	108	114	134	146	101	77	78.1	264	220	55	12	138	35	173
3-6"	136	156	127	113	116	139	194	108	106	136	613	231	141	12	181	90	271
6-12"	35.5	101	54	28.2	83.1	53	106	44.6	92	85	264	128	63	12	90	40	130
12-18"	8.08	15.7	13.1	6.98	21.4	22.9	14.3	10.9	15.2	23.8	250	29.9	68	12	36	43	79

ENA-2 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	86.5	65.4	11.1	153	214	198	178	153	145	121	63	10	133	45	177
1-3"	63.8	34.7	34.8	159	325	203	168	550	119	222	156	10	188	112	300
3-6"	29	7.41	54.7	182	937	222	205	138	110	243	267	10	213	191	404
6-12"	14	4.27	40.5	79.4	268	265	38.5	88.2	138	158	97	10	109	69	178
12-18"	8.66	5.52	12	21.1	133	132	24.6	22	71.1	218	73	10	65	52	117

ENA-3 Sample Depth	1D	2D	3D	4D	5D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	190	112	138	125	288	193	65	6	174	68	243
1-3"	173	104	126	132	288	178	66	6	167	69	236
3-6"	174	304	146	105	273	182	76	6	197	80	277
6-12"	147	98.7	151	154	283	255	71	6	181	75	256
12-18"	159	90.3	172	101	213	65	57	6	133	59	193

ENA-4 Sample Depth	1D	2D	3D	4D	5D-EZ	6D-EZ	7D-EZ	8D-EZ	9D-EZ	10D-EZ	DS-1D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	1960	95.7	99.6	111	159	64.6	347	254	46.4	47.9	114	187	533	12	291	339	629
1-3"	103	86.7	104	117	129	118	325	450	44.5	44.9	238	235	123	12	166	78	244
3-6"	95.5	131	120	108	279	86.1	406	344	71.4	51.3	159	216	115	12	172	73	245
6-12"	82.8	343	130	121	473	322	162	189	65.4	253	72.9	214	126	12	202	80	282
12-18"	19.4	33.7	77.1	30.5	259	318	303	172	176	137	166	232	105	12	160	67	227

ENA-5 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	169	432	195	319	301	249	541	262	601	610	81.2	4090	1096	12	654	696	1350
1-3"	235	627	210	331	368	310	477	372	805	624	40.1	1470	373	12	489	237	726
3-6"	253	403	172	292	306	219	443	289	2320	568	22.7	564	598	12	488	380	868
6-12"	110	182	11.7	79.3	136	39.5	272	1930	792	392	7.97	280	542	12	353	345	697
12-18"	16.6	9.47	70.8	34.8	11.6	7.81	95.7	168	258	110	6.8	63.1	78	12	71	49	120

ENA-6 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	255	187	179	178	133	83.8	143	207	290	313	298	261	73	12	211	46	257
1-3"	281	208	191	182	133	161	165	266	432	302	279	1370	337	12	331	214	545
3-6"	253	175	180	176	140	420	162	250	1310	534	302	219	326	12	343	207	550
6-12"	121	74.7	124	41.5	42.5	505	37.9	116	405	328	277	57.1	160	12	177	102	279
12-18"	94.5	15.9	44.9	24.2	18	68.2	21.9	19.9	88.1	30.6	64.8	7.59	30	12	42	19	61

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-7 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	169	199	211	229	163	305	294	419	357	307	337	413	270	378	86	14	289	50	339
1-3"	160	158	194	207	169	320	324	382	371	376	437	443	243	497	116	14	306	67	373
3-6"	140	145	200	153	165	309	303	372	1240	320	395	255	222	481	280	14	336	162	498
6-12"	80.4	44.1	79	41.8	119	153	218	233	324	314	334	53.6	40.4	223	111	14	161	64	226
12-18"	19.1	7.28	10.2	5.98	19.9	57.4	30.8	42	126	27.7	40.3	19.3	10.7	36.7	31	14	32	18	50

ENA-8 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	265	94.8	92.1	115	114	123	181	202	215	453	558	154	11	219	103	323
1-3"	243	99.5	95	122	138	115	172	178	206	230	600	142	11	200	96	295
3-6"	226	106	122	114	123	101	164	181	210	221	385	83	11	178	56	234
6-12"	104	141	140	24.7	110	107	135	101	150	348	241	84	11	146	57	202
12-18"	17	47	19.8	10.8	29.2	63.2	62.1	63.9	31.9	40.3	25.1	19	11	37	13	50

ENA-9 Sample Depth	1D	2D	3D	4D	5D	6D-EZ	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	264	273	238	351	261	413	127	350	342	125	220	91	11	269	61	331
1-3"	151	275	264	398	282	325	122	352	320	272	209	83	11	270	56	326
3-6"	128	247	251	111	299	291	184	252	380	676	207	154	11	275	103	378
6-12"	43.4	127	75.3	24.3	240	1300	192	336	155	899	80.8	408	11	316	274	590
12-18"	12.9	30.5	21.7	9.1	77.8	54.8	27.8	391	22.1	287	153	128	11	99	86	185

ENA-10 Sample Depth	1D	2D	3D	4D	5D-EZ	6D-EZ	7D-EZ	8D-EZ	9D-EZ	10D-EZ	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	216	174	428	243	258	376	256	702	261	276	203	181	255	236	137	14	290	79	369
1-3"	60.3	183	252	239	512	293	284	295	297	284	191	234	216	536	122	14	277	71	347
3-6"	126	182	108	163	253	216	241	145	719	272	247	289	116	397	157	14	248	91	339
6-12"	97.1	35.2	46.1	42.3	165	89.5	115	71	237	154	234	269	164	81.5	77	14	129	44	173
12-18"	107	13.1	21.7	9.79	50.8	42	38	33.7	46.6	38.3	31.9	36.3	172	113	45	14	54	26	80

ENA-11 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	214	175	134	177	161	263	495	559	365	450	156	10	299	111	411
1-3"	214	224	141	185	182	297	891	654	328	454	243	10	357	174	531
3-6"	1570	177	136	141	169	306	687	410	318	378	434	10	429	311	740
6-12"	109	88.5	114	80.4	125	90.7	3850	238	309	412	1168	10	542	835	1377
12-18"	13.2	15.7	51	24.3	24.7	12.4	66.9	109	41.8	102	36	10	46	26	72

ENA-12 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	621	242	463	733	477	256	409	360	457	515	250	1430	874	325	13	545	196	742
1-3"	778	477	460	374	447	319	440	407	1860	480	290	767	902	418	13	615	253	868
3-6"	595	476	358	233	283	272	235	191	384	359	293	735	1090	253	13	423	153	576
6-12"	380	36.2	232	29.7	83.8	152	216	18.3	224	113	751	526	514	227	13	252	137	389
12-18"	160	109	NS	NS	10.4	95.7	455	18.7	177	15.7	187	276	444	158	11	177	106	283

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-13 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	174	281	233	211	249	367	267	343	233	290	181	1160	267	12	332	170	502
1-3"	183	245	256	201	1330	533	355	330	177	180	192	710	338	12	391	215	606
3-6"	268	200	231	193	255	371	199	253	304	189	187	101	68	12	229	43	273
6-12"	126	143	15.9	81.9	203	84	9.31	78.8	258	114	162	52.7	73	12	111	47	157
12-18"	45.6	45	112	20.3	20.9	11.1	4.09	20.9	44.6	18	34.9	7.15	29	12	32	19	51

ENA-14 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	179	126	186	325	232	219	242	192	229	287	152	138	59	12	209	38	247
1-3"	99	195	192	263	261	210	199	195	228	247	214	61.8	61	12	197	38	236
3-6"	13.5	150	175	337	175	179	241	423	270	236	415	72.2	125	12	224	79	303
6-12"	15.6	39	71.5	104	62.5	106	120	196	114	119	199	68.2	56	12	101	35	137
12-18"	10.3	14.8	8.13	16.9	7.4	14.5	30.7	220	6.85	42.3	46.6	65	60	12	40	38	78

ENA-15 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D-EZ	DS-1D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	251	246	324	296	266	412	499	534	468	1020	807	730	517	845	2620	594	15	656	329	984
1-3"	295	256	288	1720	415	401	726	435	794	864	632	1150	588	622	2620	635	15	787	352	1139
3-6"	584	234	266	198	301	362	666	524	569	778	1330	847	807	526	807	302	15	587	167	754
6-12"	141	124	123	69.4	106	114	553	199	275	686	618	255	290	405	299	198	15	284	109	393
12-18"	18.1	29.3	46.2	23.1	20.7	12.1	41.3	43.1	70.3	90.6	319	47.2	121	62.9	84.7	76	15	69	42	111

ENA-16 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	313	201	251	169	185	186	207	209	167	188	213	140	45	12	202	28	231
1-3"	170	151	219	185	170	395	153	270	272	181	146	176	73	12	207	46	254
3-6"	291	274	311	194	179	612	182	335	258	183	135	172	128	12	261	81	342
6-12"	388	566	1450	170	536	218	284	251	235	164	223	144	363	12	386	231	616
12-18"	55	233	175	16.3	123	29.5	51.4	279	50.9	172	18.2	85.3	88	12	107	56	164

ENA-17 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	113	192	91.7	78.2	234	310	334	295	2270	246	383	538	531	571	13	432	345	777
1-3"	110	204	86.3	90.3	237	322	1440	286	435	270	387	586	669	362	13	394	219	613
3-6"	117	190	102	103	223	281	377	308	315	482	377	572	382	146	13	295	88	383
6-12"	120	70.4	159	142	120	121	368	360	107	488	271	389	120	138	13	218	84	302
12-18"	30.1	10.1	44.3	24.8	36.1	19.1	472	58.8	26	116	81.5	NS	9.28	128	12	77	81	159

ENA-18 Sample Depth	1D	2D	3D	4D	5D	6D-EZ	7D-EZ	8D-EZ	9D-EZ	10D-EZ	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	169	232	198	194	1210	1230	769	932	1450	1390	1030	1220	505	12	835	321	1156
1-3"	167	233	188	211	735	750	768	613	1290	1080	674	1540	449	12	687	285	973
3-6"	168	220	191	197	271	582	277	741	594	798	129	1420	383	12	466	243	709
6-12"	95.8	100	118	116	79.8	293	57.1	105	46.8	425	156	728	200	12	193	127	321
12-18"	35.3	28.4	79.3	48.4	17.7	47.3	21.3	23.4	23.2	113	169	57.2	45	12	55	29	84

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-19 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	96.3	103	103	125	107	75.4	93.3	87.1	90.8	129	145	20	11	105	14	119
1-3"	95	93.2	109	114	94.5	92.6	117	91	94.2	108	137	14	11	104	10	114
3-6"	92.9	84	102	128	99.4	103	146	95.1	93.7	106	140	20	11	108	14	122
6-12"	17.3	32.7	41.7	75.6	98	51.5	138	70.2	32.2	34.6	80.1	36	11	61	24	85
12-18"	9.34	12.1	15.5	41.1	71.2	13.3	26.6	16.3	11.6	10.1	72.4	24	11	27	16	43

ENA-20 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	133	134	138	102	219	279	356	584	2020	1910	277	251	682	12	534	433	967
1-3"	225	199	147	87.2	114	292	413	264	1260	1200	242	292	400	12	395	254	649
3-6"	235	154	168	85.8	318	1010	303	254	542	1610	222	291	444	12	433	282	715
6-12"	105	29.9	94.5	54.4	15.9	109	88.8	94.1	202	481	190	87.2	124	12	129	78	208
12-18"	14.9	17.6	18	9.77	11.3	36.1	86.3	26.9	41.8	82.5	91.2	9.23	32	12	37	20	57

ENA-21 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	273	275	284	240	214	81	382	205	389	390	569	3110	646	786	13	543	475	1018
1-3"	355	279	222	604	211	354	511	245	492	353	582	1090	568	238	13	451	144	595
3-6"	454	311	272	253	309	533	510	309	510	124	598	570	66.9	171	13	371	103	474
6-12"	68.4	260	170	140	145	522	235	434	69.9	23.5	60.7	120	26.5	154	13	175	93	268
12-18"	25.9	17.7	41.9	33.3	9.46	583	89.1	166	14.8	6.22	33.7	111	16.2	156	13	88	94	183

ENA-22 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	252	265	258	229	172	248	294	210	541	250	316	2180	194	4010	1091	14	673	630	1302
1-3"	239	326	257	302	210	117	322	129	482	180	338	829	205	926	244	14	347	141	488
3-6"	290	261	217	270	237	80.6	1400	544	362	370	461	713	173	294	328	14	405	189	594
6-12"	280	191	87.9	97.2	42.5	270	227	449	460	365	521	142	180	92.5	154	14	243	89	332
12-18"	63.2	47.7	67.4	43.2	217	31.2	30.4	921	270	289	207	25.9	40.5	21.4	239	14	162	138	300

ENA-23 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	260	53.8	76.4	127	88.6	66.3	170	85.3	112	116	352	92	11	137	62	199
1-3"	54.1	75.9	82.9	143	149	67.9	97.9	92.5	103	165	464	114	11	136	77	213
3-6"	60.4	80.1	111	139	205	73.3	134	116	173	190	724	186	11	182	125	307
6-12"	153	138	136	171	215	222	257	187	294	91.5	387	84	11	205	56	261
12-18"	89.1	102	132	123	89.3	213	73.1	74.1	77.1	14.7	28.2	53	11	92	36	128

ENA-24 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	411	294	192	290	320	340	323	442	92.5	91.3	289	465	121	12	296	77	373
1-3"	371	320	230	282	322	549	368	427	144	67.3	326	992	233	12	367	148	515
3-6"	396	342	301	284	310	745	473	448	182	162	322	921	222	12	407	141	548
6-12"	280	66	170	165	135	322	93.3	238	85.6	72.5	165	307	92	12	175	58	233
12-18"	NS	13.3	29.7	38	7.21	58.2	18.4	16.4	8.2	8.58	6.91	13.8	16	11	20	11	31

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-25 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	291	181	143	92.4	131	102	159	218	150	361	179	149	78	12	180	49	229
1-3"	151	191	133	230	146	107	227	549	322	2050	191	267	539	12	380	342	723
3-6"	140	192	93.4	219	134	131	475	388	532	647	188	229	183	12	281	116	397
6-12"	52.2	123	40.3	201	24.1	76.6	377	201	568	366	72	67.2	171	12	181	109	290
12-18"	17.4	6.73	14.1	20.7	8.7	14.5	76.3	56.9	131	30.7	12.9	19.2	37	12	34	23	58

ENA-26 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	252	202	128	160	157	111	224	190	744	237	491	262	180	12	263	115	378
1-3"	253	229	185	165	176	72.3	265	229	502	349	264	583	144	12	273	91	364
3-6"	246	200	186	167	176	110	256	228	322	222	307	332	67	12	229	43	272
6-12"	264	177	111	83.5	96.1	159	94.5	253	97.9	137	462	194	108	12	177	69	246
12-18"	92.7	16.2	91.6	22.7	28.9	54	20.4	125	29.4	110	321	17.3	86	12	77	55	132

ENA-27 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	167	221	132	120	227	226	98.3	216	131	251	480	1550	867	844	417	14	395	241	636
1-3"	121	224	544	131	1290	231	115	225	162	293	608	1340	1060	739	441	14	506	254	760
3-6"	125	192	167	127	223	230	264	240	187	308	847	907	984	397	303	14	371	175	546
6-12"	60.8	118	64.6	27.2	49.4	64.6	53.2	263	89.9	103	580	179	276	313	153	14	160	88	248
12-18"	31.1	15.7	6.27	4.83	24.2	2.52	71.6	34.6	11.6	22.9	22.8	78.3	65	233	60	14	45	34	79

ENA-28 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	153	121	172	171	134	240	123	68	133	149	55.1	257	59	12	148	37	185
1-3"	146	141	179	172	142	280	108	68.3	146	166	55.8	256	65	12	155	41	196
3-6"	106	142	193	106	141	290	97.8	62.3	104	131	65.4	237	69	12	140	44	183
6-12"	30.9	92.4	121	38.1	54	126	21.1	22.5	24.1	21.9	121	43.8	43	12	60	27	87
12-18"	7.45	91.9	27.3	7.19	17.1	32.3	6.4	8.61	9.94	5.68	222	14.5	63	12	38	40	77

ENA-29 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	144	158	206	126	178	234	114	114	167	204	541	2270	182	585	13	357	354	710
1-3"	131	175	198	135	179	261	104	119	159	152	975	830	240	281	13	281	170	451
3-6"	103	60.5	239	138	190	258	95.9	114	145	151	848	626	244	230	13	247	139	386
6-12"	40.4	57.7	70.3	50.8	69.9	60.9	81.5	69.6	61.5	43.5	399	483	500	177	13	153	107	260
12-18"	26.5	12.6	28.3	13.1	13.1	12.1	35.2	10.9	18.7	18.3	132	140	191	61	13	50	37	87

ENA-30 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	121	156	126	116	98.6	204	199	426	164	409	171	210	108	12	200	69	269
1-3"	146	165	129	134	93.8	251	246	311	134	388	167	304	92	12	206	58	264
3-6"	142	184	134	113	106	211	197	235	146	342	153	211	65	12	181	41	223
6-12"	145	40	31	19.7	24	73.4	44.1	24.8	50.9	119	32.1	119	44	12	60	28	88
12-18"	40.3	10.4	7.19	6.74	8.04	11.2	10.4	15.1	13.3	19.2	19.8	18.5	9	12	15	6	21

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-31 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	233	166	155	225	142	245	180	104	375	322	596	341	260	130	13	257	79	336
1-3"	232	185	167	232	153	237	211	309	347	931	593	333	341	215	13	329	130	458
3-6"	471	186	155	223	162	258	217	325	533	456	517	240	544	151	13	330	91	421
6-12"	129	112	83.3	72.8	111	142	280	348	480	171	220	129	263	119	13	195	72	268
12-18"	21.3	15	8.41	15.1	14.9	14.6	20.1	15.2	176	81.7	149	NS	74.1	58	12	50	37	87

ENA-32 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	82.5	28	53.3	57.6	40.5	107	111	155	225	1090	17.4	61.9	296	12	169	188	357
1-3"	75	29.9	38.7	60.1	44.4	132	185	169	173	1100	26	77.4	297	12	176	189	364
3-6"	26.1	21	51.1	465	34	3300	169	99.1	189	1090	26.1	54.9	945	12	460	601	1061
6-12"	69.2	85.1	46	NS	53.3	148	126	42.4	89	112	30.6	96.8	37	11	82	25	107
12-18"	NS	138	NS	NS	40.2	83.4	134	227	19.7	NS	NS	NS	76	6	107	80	187

ENA-33 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	37.1	40.3	36.2	37.9	37	32.2	39.5	41.4	50.9	337	44.2	36.4	47.2	35.4	30.6	77	15	59	43	102
1-3"	31.6	38.1	26.2	37.1	29.1	23.6	29.4	35.8	46.1	201	49.2	40.7	28	26.8	35.1	44	15	45	24	69
3-6"	25.5	35	27.7	31	36.9	29.9	28.1	38	38	40.5	50.9	21.1	34.4	29.7	48	8	15	34	4	39
6-12"	27	44.5	28.5	25.7	31	34.1	45.1	35.8	25.7	44.8	73.6	36.3	84.9	28.2	NS	18	14	40	10	51
12-18"	27	23.7	26.6	27.3	27.6	23.9	25.6	27.5	18.1	37.9	62.4	48.4	NS	32.7	NS	12	13	31	7	39

ENA-34 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D-EZ	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	114	112	107	37	72.6	296	406	266	432	372	168	243	373	137	13	231	83	314
1-3"	115	133	131	40.2	66.3	417	402	240	422	380	194	295	179	138	13	232	83	315
3-6"	50.8	138	139	79.2	172	315	420	332	572	421	171	434	366	162	13	278	98	376
6-12"	36.9	70.6	63.7	40.1	46.1	268	447	201	393	1050	58.5	374	1950	548	13	385	331	716
12-18"	20.4	14.3	9.43	7.58	13.5	66.1	19.9	115	60	367	12.1	28.9	44.1	97	13	60	59	119

ENA-35 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	227	174	145	193	310	313	616	325	171	415	204	128	358	268	131	14	275	75	350
1-3"	202	180	137	173	166	249	908	337	134	434	173	77.8	275	116	210	14	254	121	376
3-6"	169	175	129	97.7	190	243	567	300	130	379	206	23.1	140	82	139	14	202	80	282
6-12"	49	82.3	52.8	29.4	63.6	64.9	202	215	49.5	273	217	8.3	27.5	9.71	89	14	96	52	148
12-18"	14.2	7.07	7.8	12.9	9.74	11.3	76.7	25.6	19.6	36.4	25.7	5.2	6.31	9.56	19	14	19	11	30

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-36 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	79.2	136	157	193	131	65.6	86.1	67.8	125	55.5	105	209	50	12	118	32	149
1-3"	91.7	166	176	187	141	70.1	102	92.1	125	190	115	378	82	12	153	52	205
3-6"	78.8	177	169	178	130	73	125	95	202	192	96.7	621	147	12	178	93	271
6-12"	81	82.7	118	84.9	92.9	34.1	57.4	55.8	98.2	79.1	11.1	477	120	12	106	76	183
12-18"	24.2	38	53.8	NS	43.4	10.8	18.9	6.62	24.7	19.9	6.15	NS	16	10	25	11	36

ENA-37 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	95.1	126	137	236	150	152	232	199	194	168	543	121	11	203	81	284
1-3"	150	146	155	255	169	171	266	229	181	169	514	107	11	219	72	290
3-6"	179	140	62.5	182	144	206	259	232	169	167	298	63	11	185	43	228
6-12"	136	114	161	75	84	86.1	66.3	68.8	86.9	114	436	106	11	130	71	201
12-18"	26.5	15.5	42.9	17.2	15.8	29.5	16.8	17.7	22.1	34.7	49.4	12	11	26	8	34

ENA-38 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	73.3	91.5	78.3	83.5	92.4	102	82.5	95.1	63.1	156	100	24	11	93	16	109
1-3"	117	133	108	93.2	99.2	119	105	125	61.9	159	111	24	11	112	16	128
3-6"	103	127	152	134	189	159	251	633	151	121	128	151	11	195	101	296
6-12"	122	41	80.5	162	93.3	181	135	232	220	41.8	NS	68	10	131	49	180
12-18"	84.4	16.9	19.6	44.7	70	20.1	568	27	37.3	20.4	NS	169	10	91	121	212

ENA-39 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	510	165	132	143	162	198	235	496	9820	281	387	2882	11	1139	1936	3075
1-3"	215	179	130	185	177	303	334	302	897	258	444	214	11	311	144	455
3-6"	128	402	298	194	239	366	220	257	422	392	454	107	11	307	72	378
6-12"	68.8	178	138	112	106	133	150	145	127	283	386	91	11	166	61	227
12-18"	15.7	37.3	40.8	13.7	29.7	26.5	12.2	64	26.7	77.5	120	33	11	42	22	64

ENA-40 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	112	97.4	131	118	74.4	108	75.2	100	166	105	27	10	109	19	128
1-3"	113	332	131	147	135	118	117	85.6	209	117	71	10	150	51	202
3-6"	152	139	132	162	113	261	132	98.9	94.5	124	47	10	141	34	175
6-12"	111	129	96.4	155	106	157	157	177	141	569	139	10	180	100	279
12-18"	30	21.4	10	28.3	42.4	51.4	64.1	13.5	67.4	777	235	10	111	168	279

ENA-41 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	283	301	252	329	229	180	229	163	190	189	165	43.1	622	135	13	244	82	326
1-3"	289	316	265	341	206	180	271	176	194	174	203	47.5	720	158	13	260	95	356
3-6"	270	323	191	560	226	178	289	199	191	191	233	243	876	199	13	305	120	426
6-12"	145	146	62.7	525	84.8	48.3	143	44.6	78.1	80.3	674	387	779	257	13	246	155	401
12-18"	24.3	21.8	18.4	19.5	17.9	13	23.7	15.1	45.2	8.9	111	59.3	38.3	28	13	32	17	49

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-42 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	87.6	61	63.4	44.7	69.8	98	83.6	99.7	104	103	21	10	81	15	96
1-3"	96.6	61.9	82.2	66.3	60	101	80.7	107	109	103	19	10	87	14	100
3-6"	92	54.1	64.9	74.1	47.9	99.2	83.6	107	107	104	22	10	83	16	99
6-12"	33.4	20	37.7	35.9	9.32	54.2	23.3	39	100	63.4	26	10	42	18	60
12-18"	5.49	6.55	6.8	5.3	5.71	11.2	5.11	7.42	23.7	24.7	8	10	10	5	16

ENA-43 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	136	110	135	217	275	23.9	387	287	186	319	138	340	348	111	13	223	67	290
1-3"	125	135	146	302	281	353	454	385	155	426	143	388	308	122	13	277	74	351
3-6"	126	135	139	252	285	399	159	244	153	288	138	337	342	95	13	231	57	288
6-12"	64.2	114	104	218	126	121	56.4	56.1	92.6	110	151	149	263	61	13	125	37	162
12-18"	30.8	15.4	22.9	60.3	39.1	11.6	28.9	22.5	13.6	16.7	63.6	20.4	174	44	13	40	26	66

ENA-44 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	167	170	163	227	91.4	147	162	147	419	431	191	342	112	12	221	71	293
1-3"	189	163	168	244	173	162	190	181	585	587	201	533	175	12	281	111	392
3-6"	196	247	156	215	135	176	157	214	615	676	223	920	258	12	328	164	492
6-12"	234	106	525	242	186	169	170	233	359	468	130	397	137	12	268	87	355
12-18"	226	156	360	111	52.1	63.6	82.3	98.2	29.2	124	51.2	185	94	12	128	59	188

ENA-45 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	117	139	158	96.1	80.9	112	139	247	162	250	152	219	154	54	13	156	32	188
1-3"	99	141	167	119	120	126	174	319	176	152	131	262	207	62	13	169	38	206
3-6"	126	139	201	127	127	72.2	107	203	196	94.3	148	129	201	44	13	144	26	170
6-12"	193	109	55.2	176	50.7	44.5	68.5	41.8	48.1	40.3	78.8	71.5	132	52	13	85	31	117
12-18"	19.6	18.7	8.52	12.5	8.16	12.9	68.5	7.93	10.9	8.01	44.4	44.3	9.36	19	13	21	12	33

ENA-46 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	159	136	206	168	160	294	2060	84.1	164	297	362	1020	571	12	426	363	789
1-3"	149	148	235	181	149	352	251	108	172	354	420	684	164	12	267	104	371
3-6"	236	145	247	177	119	231	281	102	153	237	542	428	129	12	242	82	323
6-12"	140	91.7	68.4	62.8	28.7	169	415	258	157	37.6	309	190	118	12	161	75	236
12-18"	18.5	23.7	11.6	16.2	15.5	106	94	37.3	67.5	18.2	19.1	26.6	33	12	38	21	59

ENA-47 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	84.3	44.6	219	169	136	137	140	541	200	126	399	146	11	200	98	297
1-3"	74.7	17.8	184	194	141	133	133	383	199	142	363	110	11	179	74	252
3-6"	137	206	291	173	129	126	139	206	162	132	387	82	11	190	55	245
6-12"	153	199	304	41.8	59.2	53.5	55.5	34.5	40.3	58.4	304	105	11	118	71	189
12-18"	136	294	126	21.9	19.5	5.37	9.11	8	9.39	9.81	131	92	11	70	62	132

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-48 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	118	116	120	106	129	110	129	166	212	293	608	418	157	12	210	100	310
1-3"	91.1	126	108	105	133	114	153	194	182	280	665	480	177	12	219	113	332
3-6"	116	127	115	94.9	132	114	128	187	212	265	581	628	184	12	225	117	342
6-12"	89.8	54.4	62.4	31.9	85.5	52.3	22	89.4	68.1	121	35.8	NS	30	11	65	20	85
12-18"	30.8	12.8	11.6	6.36	30.1	9.61	11.3	15.9	9.76	11.9	312	NS	90	11	42	60	102

ENA-49 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	59.6	66	40.9	127	305	64	51.1	127	86.8	51.4	520	741	224	12	187	142	329
1-3"	143	144	126	103	162	163	138	201	114	127	495	1180	309	12	258	196	454
3-6"	166	138	149	102	108	154	129	217	131	130	489	487	138	12	200	88	288
6-12"	71.9	73	76.1	54.2	23.2	92.8	76.8	56.4	62.5	86.9	136	167	38	12	81	24	105
12-18"	24.1	37.4	7.11	9.91	12.1	12.3	10.6	17.2	16.6	11.6	16.6	119	31	12	25	20	44

ENA-50 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	48.9	54.9	60	57	59.5	62.8	59.5	60.3	59.3	78.1	61.5	51.2	7	12	59	5	64
1-3"	54.9	67.8	62.4	65.5	68.1	67	64	70.3	65.4	60.2	248	60.8	53	12	80	34	113
3-6"	51.4	73.8	47.5	64.3	94.3	104	70.4	59.4	65.9	174	121	61.9	36	12	82	23	105
6-12"	53.5	86	26.4	53.3	20.8	23.8	59	57.2	85.6	57.1	NS	140	34	11	60	23	83
12-18"	41.5	5.65	4.93	10.4	4.75	5.98	14.7	13.7	5.99	41.8	NS	24.8	14	11	16	9	25

ENA-51 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	381	180	177	197	164	335	489	704	516	401	159	181	11	337	122	458
1-3"	191	192	201	176	158	666	598	859	458	603	189	254	11	390	170	561
3-6"	72.9	136	185	165	170	590	593	785	465	511	61.4	254	11	339	170	510
6-12"	12	55.3	108	108	159	297	308	295	796	485	16.4	236	11	240	159	399
12-18"	4.97	7.3	22.6	34.1	154	29.1	238	289	118	696	10.4	208	11	146	140	285

ENA-52 Sample Depth	1D-EZ	2D-EZ	3D-EZ	4D-EZ	5D-EZ	6D-EZ	7D-EZ	8D-EZ	9D-EZ	10D-EZ	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	123	116	111	172	470	198	247	215	181	203	207	99	11	204	66	270
1-3"	2140	168	166	221	280	182	358	268	211	325	245	576	11	415	387	802
3-6"	330	207	159	242	244	253	137	257	184	251	264	54	11	230	37	266
6-12"	48.6	135	270	131	24.6	210	26.9	136	119	146	187	76	11	130	51	182
12-18"	7.33	13.3	NS	16.3	7.23	8.12	9.03	13.7	10.8	11.1	29	6	10	13	5	17

ENA-53 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	149	108	87.2	114	132	284	113	92.7	103	182	162	549	130	12	173	83	256
1-3"	218	138	116	161	154	256	125	122	145	249	278	464	100	12	202	64	266
3-6"	264	176	149	159	168	206	158	141	134	172	107	1220	307	12	255	195	449
6-12"	135	52.1	50.7	55	78.8	71.7	92.4	80.2	28.8	79.1	47.6	311	75	12	90	47	138
12-18"	15.8	55.1	7.8	10.8	11.3	49.2	29.5	14.4	21.9	20.9	12.4	69.1	20	12	27	13	39

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-54 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	124	47.2	74.3	49.1	34.5	7.3	13.7	22.1	19.8	14.8	205	61.4	57	12	56	36	92
1-3"	136	106	92.6	136	87.8	66.7	142	116	49	129	499	47.9	120	12	134	76	210
3-6"	114	188	133	141	107	73.8	212	82.4	66.2	192	512	100	121	12	160	77	237
6-12"	36.4	44.9	70.4	111	238	73.5	48.5	17.9	9.76	31.7	600	1660	475	12	245	302	547
12-18"	11	26.8	13.8	12	39.1	5.96	6.4	7.58	6.48	26.2	308	152	90	12	51	57	109

ENA-55 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	177	240	563	335	373	624	198	331	539	627	1110	492	258	12	467	164	631
1-3"	189	176	354	824	404	471	707	273	590	677	457	529	205	12	471	131	601
3-6"	156	53.9	385	472	339	583	805	175	547	998	573	582	272	12	472	173	645
6-12"	66.4	83.9	120	109	129	240	246	40.9	166	236	587	541	177	12	214	113	327
12-18"	11.5	18.7	142	32.3	10.7	21.2	95.2	10.3	35.8	29.1	67.1	166	54	12	53	34	87

ENA-56 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	69.8	228	30.5	40.7	56.8	154	255	254	124	173	88	10	139	63	201
1-3"	71.5	267	34.4	43.8	88	186	174	170	138	194	75	10	137	54	190
3-6"	500	246	101	105	72.5	188	288	194	83.9	290	132	10	207	94	301
6-12"	83.6	48.8	179	81.7	66.7	58.7	485	81.1	97.4	141	130	10	132	93	225
12-18"	99.5	7.06	51.1	21.4	10.9	8.56	1330	7.87	10.5	28.7	413	10	158	295	453

ENA-57 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	357	580	643	234	311	243	331	218	198	255	15600	4604	11	1725	3093	4818
1-3"	350	456	480	228	298	794	303	193	199	306	2800	755	11	582	507	1090
3-6"	319	478	383	216	317	286	308	184	205	294	2650	714	11	513	479	992
6-12"	124	153	77.2	114	261	119	146	92	251	193	653	162	11	198	109	307
12-18"	13.9	40.3	23.2	14.7	46.5	20.1	14.2	10.3	18.4	52.7	194	53	11	41	36	76

ENA-58 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	37.1	46.4	130	54.4	91.2	21.5	31.2	106	80.6	86.7	92	155	41	12	78	26	104
1-3"	98.1	202	128	133	148	127	93.9	93.1	83.2	115	89.7	211	42	12	127	27	154
3-6"	131	112	145	132	225	119	76.8	274	30.2	53.1	90.9	242	76	12	136	48	184
6-12"	45.4	43.4	89.5	90.5	4.61	72.6	34.2	68.4	9.85	43.6	138	189	53	12	69	34	103
12-18"	14.7	10.4	16.4	6.04	6.49	40.2	22.6	7.31	7.23	9.95	29.8	14.9	11	12	16	7	22

ENA-59 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	264	206	175	172	155	168	182	144	167	177	441	85	11	205	57	261
1-3"	161	197	174	173	136	175	180	148	156	153	491	100	11	195	67	262
3-6"	161	196	181	171	112	161	219	150	165	187	429	83	11	194	56	249
6-12"	75.6	66.2	107	73.8	34.8	127	129	23.2	80.6	215	46	54	11	89	36	125
12-18"	10.9	28	13.5	14.9	7.33	110	9.66	6.45	21.9	29.3	28.7	29	11	26	20	45

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-60 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	40.5	87.7	51.2	297	345	544	381	143	70.5	585	368	1100	306	12	334	195	529
1-3"	289	105	61.9	311	343	554	355	153	262	836	404	1750	458	12	452	291	743
3-6"	186	106	70.4	294	369	611	1210	245	169	693	575	1110	381	12	470	242	712
6-12"	230	97.6	36.2	35.1	298	384	99.7	25.5	16.8	117	345	457	157	12	178	100	278
12-18"	12.2	19.1	10.6	127	179	51.8	23.9	13.6	5.01	41.8	17.8	130	59	12	53	37	90

ENA-61 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	256	186	117	106	175	229	208	323	273	219	664	151	11	251	102	352
1-3"	217	171	123	114	187	255	324	339	274	334	318	84	11	241	57	298
3-6"	137	174	124	125	203	228	318	340	267	336	291	84	11	231	57	288
6-12"	16.9	40.9	83	64.5	119	95.1	131	119	138	125	146	42	11	98	28	126
12-18"	5.44	12.8	8.11	11.1	14.4	15.6	24.2	22.9	19.9	37.3	198	55	11	34	37	71

ENA-62 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	222	191	249	132	239	704	483	348	327	333	586	490	173	12	359	110	469
1-3"	206	196	247	160	240	761	574	402	269	354	502	1150	291	12	422	185	607
3-6"	221	201	230	225	213	1340	519	474	345	410	454	333	313	12	414	199	613
6-12"	82.7	32.8	141	147	87.9	527	781	255	419	428	111	105	230	12	260	146	406
12-18"	12.5	6.91	12	15.5	8.55	183	296	147	425	189	30	49.6	137	12	115	87	201

ENA-63 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	446	389	169	171	162	359	284	249	306	301	404	582	126	12	319	80	399
1-3"	177	377	163	146	168	258	270	243	303	207	390	2190	567	12	408	360	768
3-6"	122	246	163	149	125	158	253	252	272	168	311	651	144	12	239	92	331
6-12"	38.5	23.9	42.5	65.5	40.2	50.1	60.3	136	132	60.9	526	201	140	12	115	89	203
12-18"	10.6	23.3	9.45	7.78	21.6	22.5	14.2	11.9	14.4	21.7	497	76.5	139	12	61	88	149

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-64 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	170	144	195	200	202	191	163	233	260	227	294	44	11	207	29	237
1-3"	193	159	545	218	426	214	221	251	285	263	370	116	11	286	78	364
3-6"	197	166	187	172	216	202	214	202	357	252	372	70	11	231	47	278
6-12"	131	65.8	61.9	103	171	49	99.1	73.7	86.7	101	191	45	11	103	30	133
12-18"	14.6	12.3	16.1	19.5	23.2	14.8	16.7	27.8	14.7	13	20.2	5	11	18	3	21

ENA-65 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	205	165	294	164	135	146	169	106	214	91.1	58	10	169	42	211
1-3"	197	163	271	172	150	171	160	120	209	143	42	10	176	30	206
3-6"	206	186	297	161	152	171	152	150	245	237	50	10	196	36	231
6-12"	138	106	139	91.8	102	81.3	154	169	146	343	75	10	147	53	200
12-18"	105	13.6	35.9	7.58	16.3	11.1	91.5	39.5	29.5	290	86	10	64	62	126

ENA-66 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	199	415	201	118	39.7	74.6	14.2	70.9	99.6	268	191	117	11	154	79	232
1-3"	209	340	157	115	5.65	36.5	5.58	74.6	182	299	5.76	119	11	130	80	210
3-6"	245	482	137	120	141	201	241	96.5	127	117	125	111	11	185	75	259
6-12"	134	245	149	NS	152	127	119	160	1230	132	175	342	10	262	245	507
12-18"	48.3	196	126	NS	157	99.4	134	145	148	115	174	41	10	134	29	164

ENA-67 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	236	396	160	262	401	361	240	351	247	354	225	81	11	294	54	348
1-3"	229	409	175	251	518	200	226	658	201	316	317	153	11	318	103	421
3-6"	116	454	161	248	342	187	212	309	218	427	511	130	11	290	87	377
6-12"	222	133	37.5	95.2	128	85.6	66.8	86	92.8	54.6	365	94	11	124	63	187
12-18"	11.9	29.2	14.5	19.2	10.2	22.7	16.1	38.5	32	8.13	180	49	11	35	33	68

ENA-68 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	247	233	1600	439	83.3	293	348	328	389	321	534	403	11	438	270	708
1-3"	252	259	439	291	301	341	453	408	757	479	961	222	11	449	149	598
3-6"	254	239	289	307	1450	337	846	423	432	804	730	372	11	556	250	805
6-12"	197	158	84.6	216	281	1030	385	486	257	385	682	273	11	378	184	562
12-18"	19.3	7.89	21.6	68.6	414	37.8	22.6	175	98.8	142	67	118	11	98	79	177

ENA-69 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	258	316	349	1430	328	438	325	264	319	679	501	229	514	846	323	14	485	186	672
1-3"	218	325	338	436	291	1430	214	347	364	134	632	432	390	688	320	14	446	185	631
3-6"	272	624	224	4090	515	403	347	338	316	93.4	448	446	254	870	1005	14	660	580	1240
6-12"	251	121	3140	194	305	227	221	265	88.7	5.86	54.9	152	41.1	219	800	14	378	462	840
12-18"	29.3	11.2	23.8	5.4	28.5	49.3	84.5	87.4	10.4	7.74	33.2	19.5	7.04	63.5	28	14	33	16	49

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-70 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	177	184	147	154	184	205	209	148	213	206	171	25	11	182	17	198
1-3"	178	192	141	91.3	103	157	168	197	212	186	146	38	11	161	26	187
3-6"	176	165	143	20.5	29.5	25.2	108	25.9	51.5	44.7	88.1	59	11	80	40	120
6-12"	162	168	61	199	153	234	144	184	152	154	124	44	11	158	29	187
12-18"	33.6	28.3	12.1	187	181	172	143	179	206	154	154	71	11	132	48	180

ENA-71 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	181	440	536	232	205	250	396	382	413	339	372	1710	580	393	13	464	238	702
1-3"	146	449	720	239	267	317	1950	626	408	454	498	1260	1470	546	13	677	330	1007
3-6"	173	486	483	204	242	319	453	428	502	373	1300	1830	757	475	13	581	287	868
6-12"	162	372	226	170	148	189	273	414	284	443	548	220	486	135	13	303	82	384
12-18"	28.1	32.4	39	18.5	82.5	17.8	28.3	318	28.9	106	86.6	102	47.5	80	13	72	49	121

ENA-72 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	285	294	223	320	494	1150	395	506	185	286	305	267	11	404	179	583
1-3"	362	246	251	428	622	888	516	480	273	813	285	224	11	469	151	620
3-6"	215	203	213	396	536	247	447	520	330	318	286	122	11	337	82	419
6-12"	108	57.8	57.3	137	166	181	93.2	196	231	238	299	78	11	160	52	213
12-18"	22.5	19.9	27.8	63.3	56.4	29.5	33.4	20.5	46.7	92	64.3	23	11	43	16	59

ENA-73 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	147	161	184	163	97.9	162	251	27.7	24.3	29.6	77	10	125	55	180
1-3"	161	155	219	161	119	100	131	24.4	12.1	18.7	71	10	110	51	161
3-6"	153	133	146	158	79.9	110	101	20.5	10.1	33.2	56	10	94	40	135
6-12"	95.8	53.1	31.4	72.7	34.3	63.4	26.7	NS	153	118	43	9	72	33	105
12-18"	15.5	33.8	5.74	3.42	6.18	6.2	3.97	NS	29.5	35	14	9	15	10	26

ENA-74 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	135	380	271	85.2	106	115	126	75	122	81.4	299	103	11	163	70	233
1-3"	198	221	0.52	91.8	116	111	124	58.6	109	118	305	82	11	132	55	187
3-6"	155	441	164	48.2	101	88.7	50.8	18.8	80.7	123	279	122	11	141	82	223
6-12"	135	149	90.9	7.84	123	32.1	6.12	8.25	83	116	2220	649	11	270	436	706
12-18"	42.6	136	113	10.9	168	8.65	4.51	3.56	151	133	20.1	67	11	72	45	117

ENA-75 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	105	244	184	128	246	196	148	293	276	425	148	93	11	218	62	280
1-3"	243	225	191	154	258	280	336	244	454	518	120	121	11	275	81	356
3-6"	236	184	256	178	240	266	217	447	405	419	395	101	11	295	68	363
6-12"	132	183	196	132	565	92.6	114	142	150	62.5	289	139	11	187	93	280
12-18"	33	12.6	11.8	33.9	27.7	23.4	34.3	24.5	55.1	32.9	85.7	21	11	34	14	48

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-76 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	305	172	175	151	164	182	194	176	225	227	103	253	52	12	194	33	227
1-3"	263	204	154	189	161	194	188	225	212	335	131	249	55	12	209	35	244
3-6"	154	203	218	237	178	188	8150	229	318	421	136	195	2289	12	886	1454	2340
6-12"	81.8	121	142	144	122	132	158	154	105	186	59.7	167	36	12	131	23	154
12-18"	22.8	56.3	13.6	22.5	54.7	34.8	41.3	41.6	26.2	92.9	5.51	23.5	24	12	36	15	51

ENA-77 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	129	381	131	88.7	121	253	324	1070	299	267	423	792	295	12	357	187	544
1-3"	64.2	266	96.1	58.7	114	292	1040	211	273	188	345	444	266	12	283	169	452
3-6"	4.46	144	102	141	84.8	193	200	201	188	89.1	667	94.5	166	12	176	105	281
6-12"	3.78	32.9	224	130	245	77.5	56	386	32.8	24.7	27	39.1	118	12	107	75	182
12-18"	3.5	9.78	12.8	17.7	587	14.8	6.08	4.22	12.6	6.05	17.5	51.7	166	12	62	105	167

ENA-78 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	82.2	120	75.8	75	146	557	285	129	146	421	726	222	11	251	149	400
1-3"	109	125	94.1	95.2	144	428	214	100	239	154	604	163	11	210	110	319
3-6"	99	127	70.2	97.6	138	233	217	57	245	72.9	582	150	11	176	101	277
6-12"	15.1	84.8	31.9	51.7	43.6	216	31.6	42.8	153	167	126	67	11	88	45	133
12-18"	4.7	6.9	5.12	9.51	9.08	88.4	26.4	28.9	29	6.85	11.2	24	11	21	16	37

ENA-79 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	182	265	254	244	155	115	172	198	135	172	194	48	11	190	32	222
1-3"	206	216	274	212	292	149	190	195	80.8	104	284	69	11	200	46	247
3-6"	164	95.8	273	133	58.7	115	176	44.4	25.2	302	331	105	11	156	71	227
6-12"	18.7	11.4	138	39.1	11.7	33.7	33.9	165	8.75	46.2	50.9	52	11	51	35	86
12-18"	9.74	4.53	7.75	8.34	1.89	8.38	9.2	36.6	ND	56.5	15.2	17	10	16	12	28

ENA-80 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	150	151	185	149	212	242	153	176	157	193	112	36	11	171	24	195
1-3"	182	160	191	167	174	258	159	175	150	201	240	34	11	187	23	210
3-6"	172	172	194	121	103	252	154	146	189	227	282	54	11	183	36	219
6-12"	84.1	90.6	97.8	12.1	128	55.5	77.7	79.4	36.6	67.7	388	100	11	102	67	169
12-18"	20.2	18.9	17.1	4.06	18.8	9.93	37.1	9.8	9.07	10.6	280	80	11	40	54	93

All Data is Presented in Parts Per Million

EXPANDED NORTHERN AREA DATA

ENA-81 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	138	185	133	100	97.3	75.9	148	86.1	137	132	152	402	86	12	149	54	203
1-3"	165	195	118	218	169	85.4	134	129	209	167	244	313	62	12	179	39	218
3-6"	230	160	148	204	155	136	2990	147	191	177	186	211	813	12	411	516	928
6-12"	119	122	75.9	118	134	85.8	304	165	113	28.9	196	217	73	12	140	46	186
12-18"	16.7	14.3	13.9	19.5	206	21.4	6	26.2	46.7	7.47	33.2	325	99	12	61	63	124

ENA-82 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	142	153	197	154	128	157	168	126	160	134	92.3	287	48	12	158	31	189
1-3"	85.2	142	116	149	134	146	158	107	170	130	177	208	33	12	144	21	164
3-6"	106	119	151	112	124	133	148	116	167	132	190	230	36	12	144	23	167
6-12"	36.5	43.9	28.8	36.3	17.6	14.2	27.9	34.5	112	65.5	177	286	82	12	73	52	125
12-18"	3.78	5.67	159	5.41	5.61	4.28	5.22	9.79	33.4	16.2	24.3	NS	46	11	25	31	55

ENA-83 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	70.4	72.4	78.8	68.9	99.3	77.4	90.9	121	96.2	114	18	10	89	13	102
1-3"	64.4	79.2	85.2	75.7	125	80.6	107	90.3	87.8	142	24	10	94	17	111
3-6"	72.2	109	75.8	80.8	131	76.8	98.3	100	121	154	27	10	102	19	121
6-12"	74.2	5.44	160	41.2	156	72.2	13.1	108	65.9	144	56	10	84	40	124
12-18"	3.65	4.15	7.73	10.3	67.6	15.6	4.72	13.3	36	31.2	20	10	19	15	34

ENA-84 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	236	187	559	242	239	194	192	221	268	267	472	596	147	12	306	94	400
1-3"	231	227	326	272	217	222	202	248	209	251	325	844	177	12	298	112	410
3-6"	210	193	319	215	167	209	106	116	144	294	348	836	196	12	263	124	388
6-12"	65.5	92.4	120	96.2	58.4	63	31.4	50.3	33	71.5	51.4	101	28	12	70	18	87
12-18"	24.2	12.1	97.6	11	28.8	18	11.1	9.8	11.5	37.8	15.4	193	54	12	39	34	74

All Data is Presented in Parts Per Million

Southern Expanded Area Data

EXPANDED SOUTHERN AREA DATA

ESA-01 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	70.6	113	97.1	79.3	116	590	260	246	201	157	95.3	255	493	223	155	14	214	90	304
1-3"	73.9	116	116	105	110	205	290	345	190	157	126	653	511	250	170	14	232	98	330
3-6"	76.9	120	136	81.5	97.9	198	328	156	118	58.4	81	392	327	275	111	14	175	64	239
6-12"	48.3	64.8	80.9	70.8	84.9	358	270	87.5	87.5	60.7	120	163	236	30.6	96	14	126	56	182
12-18"	9.82	15.2	40	18.5	26.1	24.1	95.6	145	51	39.5	40	71.2	210	4.55	58	14	56	34	90

ESA-02 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D-EZ	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	65.5	51.9	43.3	49	67.9	124	146	3.11	138	283	241	161	222	86	13	123	52	175
1-3"	53.9	65.5	66.9	52.9	91.3	154	100	128	131	273	227	120	212	70	13	129	43	171
3-6"	95	67.4	106	75.6	104	170	41.7	162	137	228	286	115	250	75	13	141	45	186
6-12"	47.1	10.4	19.9	27.7	23.8	32.9	14.5	137	90	100	87.4	12.6	47.3	41	13	50	24	75
12-18"	7.17	4.75	8.47	5.29	5.96	14.7	3.99	138	5.34	21.6	28.9	4.07	20	36	13	21	22	42

ESA-3 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	95.9	129	117	109	101	157	154	110	167	148	26	10	129	18	147
1-3"	76.2	119	144	88.5	123	187	126	110	190	146	37	10	131	27	158
3-6"	137	135	185	111	138	177	137	107	185	187	31	10	150	22	172
6-12"	25.3	91.3	190	68.1	119	157	200	142	58.1	89.7	58	10	114	41	155
12-18"	4.86	3.79	93.1	13.5	49.2	87.6	170	121	23.8	86.3	56	10	65	40	105

ESA-4 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	9.03	26.3	192	14	80.1	146	155	252	283	58.8	147	164	91	12	127	58	185
1-3"	164	181	190	219	137	179	162	248	324	241	113	228	57	12	199	36	235
3-6"	214	222	473	205	96.3	88.8	140	297	343	243	125	190	111	12	220	70	290
6-12"	33.6	154	240	55.4	237	9.28	37.1	241	274	102	166	142	93	12	141	59	200
12-18"	7.74	22.6	47.9	8.97	159	3.6	12.1	NS	59.1	15.5	100	64.8	48	11	46	33	78

ESA-5 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	111	139	265	212	144	57.6	92.8	133	109	130	349	469	152	116	13	182	70	252
1-3"	131	143	283	223	141	76.2	105	141	106	125	373	489	138	122	13	190	73	264
3-6"	130	161	252	207	146	472	144	163	111	129	339	427	131	121	13	216	73	289
6-12"	46.9	59.7	28.3	28	48.5	292	51.9	98.8	109	116	131	118	38.7	71	13	90	43	133
12-18"	6.72	9.17	10.9	8.07	8.64	39.1	7.6	15.2	35.3	24.8	76	31	8.61	20	13	22	12	34

ESA-6 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	220	224	233	262	357	134	147	237	220	131	123	168	133	68	13	199	41	240
1-3"	383	299	243	264	504	2210	76.5	315	307	113	158	77.9	261	557	13	401	337	738
3-6"	391	274	208	286	388	263	292	280	344	145	154	270	245	76	13	272	46	318
6-12"	163	55.5	92.5	81.8	89.8	126	18.4	100	642	23.8	173	162	162	158	13	145	95	241
12-18"	13.6	12.1	17.7	19.6	22.3	32.3	171	71.6	60.5	112	84.8	11.7	24.4	48	13	50	29	80

EXPANDED SOUTHERN AREA DATA

ESA-7 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	159	161	179	261	152	136	132	171	213	243	264	159	47	12	186	30	216
1-3"	162	155	177	321	163	141	169	167	305	184	305	171	67	12	202	42	244
3-6"	157	157	160	221	154	138	106	172	247	200	315	176	56	12	184	35	219
6-12"	35.6	54.9	79.3	33.2	96.3	40.5	37.5	104	202	98.8	150	95.4	51	12	86	33	118
12-18"	13.8	14.5	30.6	13.5	24	22.8	63.3	31.6	24.6	34.8	18.5	52.7	16	12	29	10	39

ESA-8 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	176	165	160	75.3	139	99.5	214	115	212	173	86.6	120	71.7	194	49	14	143	28	171
1-3"	210	168	156	189	146	104	229	145	263	234	121	120	91.1	217	54	14	171	31	202
3-6"	203	179	150	198	147	105	228	141	274	257	164	120	67.6	151	58	14	170	33	204
6-12"	44.2	52	70.5	55.7	69.3	14.8	21.4	38.8	31.8	1260	215	82.9	142	22.4	324	14	151	187	338
12-18"	12.6	5.07	17.5	18	12.9	5.06	7.69	10.1	14.2	20.9	88	30.2	41.1	20.4	21	14	22	12	34

ESA-9 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	107	149	163	124	148	183	170	55.7	139	156	106	303	292	69	13	161	42	203
1-3"	173	136	215	122	173	267	190	68.3	150	160	117	277	279	65	13	179	39	219
3-6"	182	100	200	142	61.4	74.7	245	105	124	167	105	227	309	73	13	157	44	201
6-12"	46.4	38.5	30.7	40.4	25.1	31.7	73.5	112	38.3	98.2	73.4	53.7	152	38	13	63	23	86
12-18"	10.9	15.9	8.36	17.3	6.93	8.35	19.9	21.7	20.8	25.9	88.2	12.3	41.6	22	13	23	13	36

ESA-10 Sample Depth	1D	2D	3D	4D	5D-EZ	6D-EZ	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	85.9	82.4	51.6	68.5	580	357	287	268	112	197	75.4	164	11	197	111	307
1-3"	87.2	85.8	70.1	72.6	670	390	339	207	130	196	61.4	189	11	210	127	337
3-6"	79.2	88.6	54.2	77.6	886	394	368	218	2510	200	95.7	724	11	452	487	939
6-12"	64.4	31	46.8	14.5	42.7	92.2	162	190	8.14	218	59.1	73	11	84	49	133
12-18"	35	17.1	5.12	4.11	42.9	42.5	370	164	4.55	1340	49.9	397	11	189	267	455

ESA-11 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	112	171	151	137	202	229	363	435	135	360	340	122	248	504	128	14	251	74	324
1-3"	119	191	169	161	254	246	1380	395	355	363	292	180	215	367	314	14	335	181	516
3-6"	152	203	185	107	240	243	348	410	237	373	257	179	227	1120	249	14	306	144	450
6-12"	54.5	49.9	114	44.1	77.7	170	92.2	114	343	223	66.3	141	202	255	89	14	139	52	191
12-18"	19.7	5.51	22.4	20.1	19.7	34.4	56.8	30.8	71.5	28.5	23.1	142	57.2	61.3	35	14	42	20	62

ESA-12 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	236	187	559	242	239	194	192	221	268	267	472	596	147	12	306	94	400
1-3"	231	227	326	272	217	222	202	248	209	251	325	844	177	12	298	112	410
3-6"	210	193	319	215	167	209	106	116	144	294	348	836	196	12	263	124	388
6-12"	65.5	92.4	120	96.2	58.4	63	31.4	50.3	33	71.5	51.4	101	28	12	70	18	87
12-18"	24.2	12.1	97.6	11	28.8	18	11.1	9.8	11.5	37.8	15.4	193	54	12	39	34	74

EXPANDED SOUTHERN AREA DATA

ESA-13 Sample Depth	1D	2D	3D	4D	5D	6D-EZ	7D-EZ	8D-EZ	9D-EZ	10D-EZ	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	84.9	108	93.1	142	93.6	128	178	153	141	114	223	202	44	12	138	28	167
1-3"	117	125	110	143	191	102	170	146	162	99	230	213	44	12	151	28	178
3-6"	117	132	122	102	109	160	190	201	186	230	248	223	51	12	168	33	201
6-12"	60.4	62.4	66.1	121	71.8	58.3	68.2	119	205	123	49.1	180	51	12	99	33	131
12-18"	16.7	13	10.5	19.1	10.9	20.4	56.8	16.1	53.6	50.5	16.3	147	39	12	36	25	61

ESA-14 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	242	526	276	152	246	227	274	267	290	231	228	93	11	269	62	331
1-3"	271	388	537	284	279	224	307	375	290	307	147	100	11	310	67	377
3-6"	249	206	318	443	330	198	188	406	268	239	273	84	11	283	56	340
6-12"	90.8	26.8	89	129	212	253	54	177	73	100	284	84	11	135	57	192
12-18"	20.7	55.3	4.56	24.6	19.3	121	469	56.1	13.7	18.2	50.5	134	11	78	90	167

ESA-15 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	392	347	429	414	361	237	231	308	214	259	786	440	154	12	368	98	466
1-3"	560	303	1080	372	494	300	273	269	226	278	719	520	249	12	450	158	608
3-6"	466	295	265	339	293	250	251	390	220	266	553	623	131	12	351	83	434
6-12"	37.4	57.7	51.8	36.5	63.6	67.4	20.9	134	61	494	184	268	137	12	123	87	210
12-18"	10.2	8.68	22.4	13.2	22.2	11.6	5.5	11.2	4.72	10.3	37.3	28	10	12	15	6	22

ESA-16 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	227	253	153	154	294	171	223	135	162	175	434	199	179	80	13	212	49	261
1-3"	258	345	181	189	323	155	220	148	2860	232	190	220	175	735	13	423	444	867
3-6"	138	209	245	160	208	148	194	131	442	226	20.2	260	165	96	13	196	58	254
6-12"	31.7	208	82.8	85	230	67	66.8	42.5	140	121	13.9	108	84.6	64	13	99	39	137
12-18"	6.67	57	41.4	8.03	44.7	14.7	19.9	8.99	39.7	34.5	7.29	43.5	34.2	17	13	28	11	38

ESA-17 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	114	140	147	157	144	227	235	223	152	433	268	295	90	12	211	57	269
1-3"	120	199	159	176	161	242	241	213	215	296	242	250	49	12	210	31	241
3-6"	126	179	166	182	162	402	222	242	180	313	372	221	87	12	231	55	286
6-12"	24.8	125	55.8	43	65	121	61.1	37.5	79.4	148	180	99.1	48	12	87	31	117
12-18"	8.11	4.87	9.42	6.27	10.9	11.2	22.7	14.1	59.6	201	63.7	40.2	55	12	38	35	73

ESA-18 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	133	135	116	151	115	70.5	122	236	70.2	163	331	75	11	149	51	200
1-3"	143	143	119	165	119	73.6	155	273	77.2	160	440	104	11	170	70	240
3-6"	138	135	130	175	118	92.8	152	258	104	152	347	75	11	164	50	214
6-12"	46.5	48.5	72.5	141	82.7	75.8	101	242	37.5	125	251	74	11	111	50	161
12-18"	7.38	7.64	12.2	34	25.8	34.3	26.3	35.8	NS	19.8	82.5	22	10	29	16	44

EXPANDED SOUTHERN AREA DATA

ESA-19 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	29.4	43.2	27.4	16.7	13.5	22.2	17.3	17.9	22.7	26.1	32.3	27.9	26.5	8	13	25	5	30
1-3"	33	51.3	21.1	17.1	13.2	23.4	15.9	17.8	19.9	19.1	35.7	26.1	22.6	10	13	24	6	31
3-6"	31.6	61.5	22.2	21.2	11.9	23.1	13.5	15.8	20.2	16.3	31.1	26	22.1	13	13	24	8	32
6-12"	7.59	25	34.5	18.2	31.1	19.3	8.87	15.3	7.73	19.2	31.1	12.1	6.83	10	13	18	6	24
12-18"	21.2	3.64	80.4	40.7	49.6	27.4	29.1	20.3	19.7	NS	28	NS	13	21	11	30	14	44

ESA-20 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	134	74	114	151	79.9	159	116	123	140	126	189	193	263	306	540	118	15	181	65	246
1-3"	144	120	114	150	99.4	163	103	141	148	182	191	228	274	255	905	198	15	214	110	324
3-6"	134	101	139	136	69.4	151	133	132	140	114	199	245	230	242	409	84	15	172	46	218
6-12"	62.1	25.1	48.2	17.6	52.3	28.6	48.8	54	38.2	116	48.7	35.9	80.1	217	84.9	49	15	64	27	91
12-18"	14.3	7.26	4.77	5.61	10.4	11	5.64	19.1	15.7	58	9.09	11.3	15.8	19.2	8.16	13	15	14	7	22

ESA-21 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	267	128	216	172	240	334	161	244	133	837	785	672	431	250	13	355	151	506
1-3"	344	326	234	230	252	367	227	299	241	332	534	670	476	136	13	349	82	431
3-6"	383	373	224	248	239	368	233	279	309	220	479	518	411	100	13	330	61	390
6-12"	357	105	80	110	101	137	189	87.5	131	89.2	310	130	465	122	13	176	74	250
12-18"	43.1	6.52	28	19.3	24.7	18	267	23.4	31.5	18.2	326	83.2	137	103	13	79	62	141

ESA-22 Sample Depth	1D-EZ	2D-EZ	3D-EZ	4D-EZ	5D-EZ	6D-EZ	7D-EZ	8D-EZ	9D-EZ	10D-EZ	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	143	169	193	199	247	128	178	177	201	212	164	175	32	12	182	20	202
1-3"	144	179	192	201	235	225	189	172	187	208	171	175	25	12	190	16	206
3-6"	145	178	172	168	189	218	187	166	184	181	176	163	18	12	177	11	188
6-12"	52.5	46.2	17.9	31.7	35.2	42.7	96.1	131	62.9	60.9	124	81.9	36	12	65	23	88
12-18"	6.74	7.42	5.78	6.2	5.5	6.28	16.6	26.8	56.6	14	18.1	44.6	17	12	18	11	29

ESA-23 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	92.3	134	137	125	128	961	83	162	139	165	298	667	498	488	265	14	291	153	444
1-3"	78.8	131	132	114	90	169	83.7	215	149	174	330	702	481	535	196	14	242	113	355
3-6"	56	128	84.3	42	12.6	236	61.6	257	146	172	314	720	557	431	211	14	230	122	352
6-12"	13.4	14.1	16.9	15.5	15.8	93	79.9	126	31.2	85	51	323	585	131	159	14	113	92	205
12-18"	3.86	5.28	5.41	5.8	2.74	5.36	22.9	104	7.16	36	41.9	18.5	178	92.3	52	14	38	30	68

ESA-24 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	60.3	96.3	70.2	68.7	44.7	62.3	129	91.3	52.4	26.9	410	106	11	101	71	172
1-3"	61.8	93.3	68.1	82.6	72.1	70.3	98.2	86	81	32.5	302	71	11	95	48	143
3-6"	59.2	53.7	76.3	87.7	126	53.7	118	105	88.7	83.6	331	78	11	108	52	160
6-12"	12.6	5.5	51.9	17	40.2	9.79	9.1	3.66	67.5	72.8	168	49	11	42	33	75
12-18"	4.09	2.98	5.34	6.84	3.58	3.88	6.38	2.99	8.34	7.58	24.5	6	11	7	4	11

EXPANDED SOUTHERN AREA DATA

ESA-25 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	170	130	190	195	160	222	217	189	219	208	91.2	275	183	177	44	14	188	25	213
1-3"	178	129	191	199	164	249	248	196	230	204	114	325	221	187	53	14	203	30	233
3-6"	128	127	168	182	158	290	234	210	164	142	121	242	116	207	53	14	178	30	208
6-12"	26.3	63.5	88.1	75.9	58.1	274	177	144	67.5	68.9	94.7	85.9	124	164	64	14	108	37	145
12-18"	4.49	13.4	23.7	11	4.04	38.2	77.1	78.2	61.7	15.6	7.62	11.9	8.92	20.2	26	14	27	15	42

ESA-26 Sample Depth	1D	2D	3D	4D	5D	6D-EZ	7D-EZ	8D-EZ	9D-EZ	10D-EZ	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	163	133	138	181	141	133	147	103	186	77.4	150	150	91.3	32	13	138	19	157
1-3"	158	154	148	208	141	140	153	142	199	71	112	163	104	36	13	146	22	168
3-6"	163	72.8	139	209	143	147	151	140	111	64.4	133	176	109	39	13	135	24	159
6-12"	67.1	17.8	37	71.9	60.3	25.6	11.4	15.6	19.5	73.8	191	132	96.4	53	13	63	32	95
12-18"	9.27	15.8	13	11.7	9.8	11	10.7	4	8.84	28.4	10.6	42.2	14.3	10	13	15	6	21

ESA-27 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	115	121	96.1	111	133	79	62.9	8.48	59.4	266	192	178	162	247	72	14	131	42	173
1-3"	123	135	92.7	133	134	107	92.2	116	71.3	234	200	178	1810	548	455	14	284	263	547
3-6"	402	143	94.3	115	134	145	198	157	112	174	203	144	338	307	93	14	190	54	244
6-12"	92.7	62	66.5	37.1	82.7	30.1	52.7	116	124	341	99.7	92.3	105	NS	78	13	100	47	147
12-18"	30	15.1	17.5	21.1	78.1	28.7	44.7	28.4	73	279	50.8	108	76	NS	70	13	65	42	108

ESA-28 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	84.3	70.3	97.2	104	122	109	99.2	90.7	81.1	180	31	10	104	22	126
1-3"	90.1	76.8	120	471	138	111	105	107	105	195	117	10	152	83	235
3-6"	116	116	116	252	107	70.8	101	99.2	117	210	56	10	131	40	170
6-12"	19.6	76.5	56.1	101	16.9	12.3	15.3	32.2	63.5	71.3	31	10	46	22	69
12-18"	23.9	6.46	12	20.5	11.8	2	3.03	4.64	14	5.73	7	10	10	5	16

ESA-29 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	149	151	123	138	149	141	220	213	169	122	123	34	11	154	23	177
1-3"	154	156	135	273	155	156	193	222	189	125	83.8	51	11	167	34	201
3-6"	123	133	105	89.7	168	173	168	155	216	184	101	40	11	147	27	173
6-12"	28	44.8	49.8	22.4	76.6	60.9	132	46	51.4	226	107	59	11	77	40	117
12-18"	9.27	8.37	8.49	10.6	15.9	16.5	18.9	58.6	24.4	46.4	11.7	17	11	21	11	32

ESA-30 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	121	117	134	136	155	107	118	184	189	161	97.8	68.8	35	12	132	22	155
1-3"	130	119	162	146	155	123	133	207	149	155	77	65.6	38	12	135	24	159
3-6"	132	131	155	143	159	135	168	167	162	161	75.4	96.1	29	12	140	18	159
6-12"	44.3	59.9	50.6	81.5	62.5	134	115	148	251	168	64.1	106	61	12	107	39	146
12-18"	4.76	22.1	9.49	6.66	17.3	17.8	11.4	43.7	19.3	19.1	NS	103	28	11	25	19	44

EXPANDED SOUTHERN AREA DATA

ESA-31 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	40.3	52.5	36.8	48.7	45.6	32.1	44.6	37.1	411	46.1	72.7	37.3	106	12	75	67	143
1-3"	48.1	152	42.6	53	49.8	40.4	43.2	49.8	36	53.1	87.7	39.2	32	12	58	21	79
3-6"	51.5	46.6	50.2	55	46.8	37.5	32.1	50.2	48.4	49.2	91.9	187	42	12	62	27	89
6-12"	89.4	78.7	64.8	113	88.2	40.8	42.9	87	47.8	1470	116	47.2	404	12	190	257	447
12-18"	12.4	33.9	87.4	43.6	57.7	64.9	97.1	32.6	69.8	59.1	47.3	35.6	24	12	53	15	69

ESA-32 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	30.6	45.2	28	37.4	45.9	136	195	281	153	195	400	185	203	112	13	149	68	217
1-3"	23.4	76.1	23	39.2	35.1	156	163	280	148	284	399	145	201	116	13	152	70	222
3-6"	13.6	39	24.7	36.2	21.4	154	189	120	63.4	331	542	228	193	153	13	150	92	243
6-12"	2.17	6.88	10.1	13.8	8.22	112	104	45.5	17.2	196	269	91.5	135	84	13	78	51	129
12-18"	0.868	1.28	2.13	2.18	3.78	25.9	10.8	13.4	4.61	95.4	231	62.3	162	73	13	47	44	92

ESA-33 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	151	179	222	612	181	236	424	286	270	294	355	307	127	12	293	81	374
1-3"	330	293	375	418	174	299	295	340	390	343	443	311	70	12	334	45	379
3-6"	237	359	169	138	251	346	263	335	374	435	708	281	148	12	325	94	419
6-12"	93.2	122	38	41.4	109	108	284	109	382	163	141	142	98	12	144	62	207
12-18"	42.2	17.1	12.9	9.41	19.4	24.7	NS	7.86	127	15.5	38.4	63.5	35	11	34	24	58

ESA-34 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL	95% UCL
0-1"	133	158	121	100	145	112	175	109	107	141	263	46	11	142	31	173	111
1-3"	106	159	118	104	457	110	179	105	102	180	290	110	11	174	74	247	260
3-6"	98.2	166	121	104	148	105	198	111	109	185	327	68	11	152	46	198	155
6-12"	28.9	53.1	29.9	57.2	64.6	62.9	102	23.5	92.2	131	113	36	11	69	24	93	78
12-18"	5.98	8.52	5.49	9.6	8.7	9.13	8.24	6.31	63	9.7	20.9	17	11	14	11	25	10

ESA-35 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	82.1	86.9	106	82.2	84.4	71.5	108	98	118	81.8	108	146	21	12	98	13	111
1-3"	108	111	114	84.1	90.3	110	649	114	124	89.8	193	143	156	12	161	99	260
3-6"	94.4	105	122	96.6	86.7	114	108	124	27.7	192	207	188	51	12	122	32	155
6-12"	31.2	51.6	77.1	56.6	48.9	61.8	109	57.4	9.28	80.1	70	84.3	26	12	61	16	78
12-18"	6.9	4.79	8.77	10.1	7.21	13.3	11.7	7.62	4.91	5.35	6.38	9	3	12	8	2	10

ESA-36 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	268	259	213	182	168	154	198	187	226	204	275	546	104	12	240	66	306
1-3"	217	214	184	211	298	161	154	204	201	188	321	562	112	12	243	71	314
3-6"	208	268	118	45600	149	168	167	223	190	165	315	623	13096	12	4016	8321	12337
6-12"	32.5	40.7	107	160	83.8	74.7	70.6	195	50.7	60.6	778	1680	486	12	278	309	587
12-18"	7.97	21.4	78.4	24.5	115	12.1	3.54	17.7	5.57	3.82	124	47	44	12	38	28	66

EXPANDED SOUTHERN AREA DATA

ESA-37 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	229	219	178	157	140	149	177	219	188	171	185	148	229	32	13	184	19	203
1-3"	221	187	183	168	140	169	160	210	177	190	345	162	291	57	13	200	35	235
3-6"	596	175	143	174	149	164	221	183	188	140	187	175	146	120	13	203	73	276
6-12"	187	38.9	125	86	184	147	179	139	192	179	209	178	78.9	52	13	148	31	179
12-18"	38.4	5.25	40.9	12.4	31.3	63.9	104	80.9	134	127	166	148	9.82	56	13	74	34	108

ESA-38 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	59.1	61.1	83	63.7	42.6	40.4	69.2	85.8	50.6	101	75	19	11	67	13	79
1-3"	94.4	65.6	124	80.2	50.2	43.2	91.3	110	54.8	96.3	73.4	26	11	80	17	98
3-6"	84	102	84.6	81.7	48.5	45.4	84.9	175	51.2	79.4	72.1	35	11	83	24	106
6-12"	22.7	77.4	104	60.1	43.1	93.5	170	19.2	43.2	80.3	19.9	45	11	67	31	97
12-18"	92.2	87.3	78.2	14.6	NS	72.9	88.4	4.68	11.7	NS	8.97	39	9	51	30	81

ESA-39 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	92.8	148	135	129	86.9	61.3	116	168	150	178	217	2210	210	576	13	300	348	648
1-3"	156	154	160	141	100	127	131	124	186	181	193	324	167	55	13	165	33	198
3-6"	165	159	184	175	112	137	152	189	199	172	176	165	126	25	13	162	15	178
6-12"	129	130	185	140	47.3	58.1	116	76.6	177	112	186	244	49.5	60	13	127	36	163
12-18"	12.4	14.7	50.6	25.2	32.8	15.5	18.3	18.5	46.4	22.1	149	164	93.4	52	13	51	31	82

ESA-40 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	93.8	126	133	160	173	171	242	314	262	344	140	82	11	196	55	251
1-3"	97.9	124	143	195	173	187	189	273	268	277	191	60	11	193	40	233
3-6"	93.3	109	136	230	198	136	284	233	247	268	155	67	11	190	45	235
6-12"	25.1	26.3	98.2	72.8	16.6	121	97.7	80.9	140	69.6	20	43	11	70	29	99
12-18"	3.81	5.43	7.2	10.8	4.36	10.6	12.6	7.75	21.2	8.68	7.45	5	11	9	3	12

EXPANDED SOUTHERN AREA DATA

ESA-41 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	56.4	21.2	73.5	57.7	21.4	129	118	169	119	198	346	137	501	187	366	138	15	167	76	243
1-3"	133	107	69.4	121	87.6	157	129	199	121	297	295	183	444	182	382	111	15	194	62	255
3-6"	133	58.7	34.1	110	59.8	160	161	183	132	241	247	106	196	253	265	75	15	156	41	197
6-12"	16.5	12.6	8.73	20.5	24.8	85.3	105	97.1	161	145	291	4.68	92.9	278	19.7	94	15	91	52	143
12-18"	7.36	5.92	4.98	5.72	5.24	16.6	18.8	7.75	106	16.9	226	4.68	12.6	16.1	13.6	59	15	31	33	64

ESA-42 Sample Depth	1D	2D	3D	4D	5D	6D-EZ	7D-EZ	8D-EZ	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	96.4	133	84.3	104	88.7	118	109	79.1	84.7	155	137	25	11	108	17	125
1-3"	115	130	62.5	129	98	134	93	89	75.6	152	64.5	30	11	104	20	124
3-6"	124	152	106	119	125	141	104	78.5	111	163	193	32	11	129	21	150
6-12"	88.2	120	88.9	62	64.7	137	67.7	60.9	91.4	45.1	147	33	11	88	22	111
12-18"	15.7	24.7	11.3	8.83	12.5	24.6	8.25	18.1	14.1	5.3	84	22	11	21	15	35

ESA-43 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	230	200	275	204	180	291	231	155	233	214	318	361	60	12	241	38	279
1-3"	308	337	260	275	256	404	304	211	284	358	379	500	79	12	323	50	373
3-6"	311	196	199	229	105	88.6	65	215	275	89.6	343	465	120	12	215	76	291
6-12"	58.7	24.3	9.19	23.4	21.7	35.9	25.5	127	33.2	16.7	149	347	97	12	73	62	134
12-18"	10.2	12.5	3.23	12.4	3.18	4.54	6.63	110	5.68	6.62	26.7	60.1	32	12	22	20	42

ESA-44 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	364	326	385	499	336	181	250	261	202	395	401	268	93	12	322	59	381
1-3"	398	447	470	498	412	243	291	321	207	323	371	290	92	12	356	58	414
3-6"	397	330	416	505	429	231	290	330	110	210	300	203	113	12	313	72	384
6-12"	132	76.1	90.1	105	141	23.4	97.2	241	44.2	46	50.6	102	58	12	96	37	133
12-18"	22.8	8.87	8.48	30.9	15.1	5.08	32.5	22.6	18.2	9.34	6.13	24.1	10	12	17	6	23

ESA-45 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	301	247	195	234	195	254	196	193	192	208	263	176	38	12	221	24	245
1-3"	284	230	282	284	399	318	222	233	203	211	322	193	61	12	265	39	304
3-6"	305	234	224	304	194	286	232	226	201	213	307	191	45	12	243	28	272
6-12"	72.4	105	109	78.2	75.3	85.2	121	58.4	146	147	153	62.5	34	12	101	22	123
12-18"	9.61	18.4	13.8	9.62	7.46	20.6	40	15.1	39.3	21.4	62.9	11.5	17	12	22	11	33

ESA-46 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	136	117	114	222	243	384	368	560	268	257	359	314	222	125	13	274	76	350
1-3"	207	116	147	184	299	363	335	413	265	234	238	305	251	85	13	258	51	310
3-6"	78	118	85.7	44.7	260	225	282	276	238	224	337	337	309	101	13	216	61	278
6-12"	13.2	91.9	20.9	11.5	40.7	87.6	84	595	123	79.8	81.6	333	1080	309	13	203	187	390
12-18"	3.91	46.6	6.77	2.77	8.72	28.2	94.3	2.06	134	19.4	16.1	107	321	90	13	61	54	115

EXPANDED SOUTHERN AREA DATA

ESA-47 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	132	137	190	124	168	151	158	120	125	153	22	10	146	16	162
1-3"	153	140	124	138	186	142	148	127	149	161	18	10	147	13	160
3-6"	145	152	129	167	195	145	159	123	131	158	21	10	150	15	166
6-12"	43.8	114	57.6	38.1	85.9	77.6	98.8	48.7	110	114	30	10	79	22	100
12-18"	7.85	33.5	4.4	6.77	36.2	17	11	3.69	59.5	12.8	18	10	19	13	32

ESA-48 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	DZ-3D	DZ-4D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	138	151	201	256	329	558	330	640	160	183	377	1370	1230	1090	425	14	501	246	747
1-3"	123	146	215	250	309	401	744	392	192	188	384	1350	1230	2510	673	14	602	388	991
3-6"	155	151	93.1	280	198	366	636	348	182	222	455	1980	660	1550	562	14	520	324	844
6-12"	61.1	53.7	19.3	31.6	22.5	37.4	3750	336	132	84.4	112	255	72.5	838	984	14	415	568	983
12-18"	7.32	23.3	12	11.7	13.4	8.58	51.5	125	8.11	21.6	12.2	27.2	99.4	243	67	14	47	39	86

ESA-49 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	89.6	102	95.2	78.9	121	122	136	5.42	110	3.56	4.3	50	11	79	34	113
1-3"	81.7	86.7	101	149	125	129	136	148	115	122	197	32	11	126	22	148
3-6"	37.1	101	78.5	64.3	55	53.9	178	138	112	135	217	57	11	106	38	144
6-12"	16.3	17	9.78	16.6	15.4	12.1	114	70.6	92.8	131	187	61	11	62	41	103
12-18"	6.01	3.97	3.89	2.79	3.67	3.77	31	23.3	22.4	14	108	31	11	20	21	41

ESA-50 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	108	99.7	111	130	107	116	134	168	151	156	218	238	45	12	145	28	173
1-3"	114	95.9	115	140	1250	126	138	195	160	150	191	103	322	12	231	205	436
3-6"	117	98.9	110	146	130	126	117	183	157	160	205	85.4	35	12	136	22	159
6-12"	69.2	78.9	67	140	140	61.4	101	122	177	129	157	236	52	12	123	33	156
12-18"	10.3	12.1	18.6	17.2	30.7	9.5	18.2	21.3	17.7	22.1	42.5	16.5	9	12	20	6	26

ESA-51 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	63	63.1	69.5	74.2	73.7	72.8	13.2	21.1	108	52.8	66.5	26	11	62	17	79
1-3"	62.9	69.5	159	91.9	69.7	64.5	55.3	51.1	86.3	54.7	133	35	11	82	23	105
3-6"	105	122	41.4	120	119	74	77.8	64.2	78	92.1	135	29	11	94	20	113
6-12"	127	108	21.7	100	69.6	28.7	55.4	121	129	112	29.1	42	11	82	28	110
12-18"	56.8	26.5	32.1	38.6	14.7	10.9	19.2	32.7	102	22.9	60.5	26	11	38	18	56

EXPANDED SOUTHERN AREA DATA

ESA-52 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D-EZ	DS-1D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	210	192	230	260	167	18.2	158	176	67.2	86.3	91.9	57.6	103	74	13	140	45	185
1-3"	230	194	265	285	239	180	192	202	136	160	107	85.1	82.4	65	13	181	39	221
3-6"	239	226	267	292	246	206	176	210	92.7	178	143	94.1	35.5	76	13	185	46	231
6-12"	163	99.7	157	191	217	163	61.3	94.9	25.4	32.4	162	145	61	62	13	121	38	159
12-18"	21.2	14.8	16.2	17	77.5	12.2	16.2	8.48	3.27	4.68	81.1	129	3.14	39	13	31	24	55

ESA-53 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	84.5	111	89.4	56	511	68.9	102	143	123	224	283	959	263	12	230	167	397
1-3"	86.3	106	103	90.1	329	108	119	173	215	363	234	370	109	12	191	69	261
3-6"	28.3	114	94.3	73.1	198	179	255	197	258	262	427	260	109	12	195	69	264
6-12"	7.35	14.1	27.6	7.89	32.1	33	147	79.6	75.9	490	42.8	32.2	134	12	82	85	168
12-18"	4.59	5.75	8.95	9.15	3.62	8.8	102	14.8	19.2	30.7	19	16.6	27	12	20	17	37

ESA-54 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	91.5	146	142	133	137	134	149	227	188	144	129	236	42	12	155	27	181
1-3"	142	154	153	155	143	137	162	235	235	157	115	252	45	12	170	28	198
3-6"	161	156	146	139	145	137	178	223	65.1	161	109	254	49	12	156	31	187
6-12"	48.7	32.8	31.2	49.5	46.5	55.2	82.3	108	20.8	51.5	96.6	160	40	12	65	25	91
12-18"	12.7	12.1	13.2	7.13	12.5	8.81	16.2	8.27	15.1	6.17	75.4	115	34	12	25	22	47

ESA-55 Sample Depth	1D-EZ	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	105	98.4	90.6	111	98.9	98.9	98.1	141	141	130	591	146	11	155	98	253
1-3"	108	92	96.7	132	104	110	107	194	156	143	442	101	11	153	68	221
3-6"	112	91.6	97	118	105	122	104	160	134	138	552	132	11	158	89	246
6-12"	86.9	59.8	64.3	18.5	82.5	61	78.7	91.3	104	76.5	250	58	11	89	39	127
12-18"	8.96	14	20.2	60.6	44.8	21.6	25.4	29.3	48.9	13.2	76.7	22	11	33	15	48

ESA-56 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	DZ-2D	DZ-3D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	86.1	88.6	79.4	72.7	72.2	170	110	139	115	134	166	66	180	153	40	14	117	23	140
1-3"	83.9	85.7	75.6	69.8	76.2	132	118	139	109	156	168	80	171	148	37	14	115	21	137
3-6"	83.2	103	78.8	80.1	73.6	140	148	141	174	159	188	54	186	142	45	14	125	26	151
6-12"	44.2	46.3	49.3	66.8	46.5	87.7	93.8	121	107	195	48.5	18.2	248	44.1	65	14	87	37	124
12-18"	23.8	13.9	7.31	13.8	4.88	61.3	35.9	149	319	57.5	18.9	3.15	68.1	14	85	14	56	49	106

ESA-57 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	130	109	98.8	50.2	125	69.5	51.4	48	52.6	67.5	443	119	108	12	114	69	183
1-3"	136	105	84.1	46.2	130	65.4	60	49.6	49.5	65.1	407	122	99	12	110	63	173
3-6"	159	103	72	49.2	119	67.1	61.9	31.7	48.2	63.8	446	130	112	12	113	71	184
6-12"	39.2	81.9	26.6	15.2	55.3	33.8	69.1	889	54.8	93.5	91.5	135	241	12	132	153	285
12-18"	6.37	12.8	4.75	9.12	12.1	7.13	45.1	19.1	55.5	39.2	23.8	38.2	17	12	23	11	34

EXPANDED SOUTHERN AREA DATA

ESA-58 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	89.9	128	69.8	92.4	90.3	45.2	44.1	30.3	29.5	35.1	46.9	32	11	64	22	86
1-3"	98.6	143	86.2	82.1	89	42.7	44.5	47.1	53.7	44.1	49.2	32	11	71	21	92
3-6"	93.1	135	82.4	93	94.8	49.2	45.6	51.1	50	55.6	49.6	29	11	73	19	92
6-12"	49.9	41.9	87.3	30.9	59.3	52.7	61.1	64.2	60.3	61.5	49	14	11	56	10	66
12-18"	10.6	6.18	16.8	2.52	16	102	47.4	27.8	36.3	46.8	62.9	30	11	34	20	54

ESA-59 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	DZ-2D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	196	235	270	206	219	154	214	255	464	417	380	669	149	12	307	95	401
1-3"	141	183	159	199	185	142	207	175	345	261	1230	630	317	12	321	201	523
3-6"	235	184	121	63.4	111	146	274	168	219	110	360	1600	418	12	299	265	565
6-12"	51	78.2	36.3	12.5	27.3	34.1	139	83.1	57	17.8	311	926	258	12	148	164	312
12-18"	3.83	15.5	5.05	4.89	9.59	10.5	16.7	33.7	26.1	10.1	296	139	87	12	48	55	103

ESA-60 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DS-1D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	123	102	120	177	116	81.4	125	119	47.6	44.3	197	121	44	12	114	28	143
1-3"	151	110	98.2	257	152	781	129	142	92.6	113	160	81.4	192	12	189	122	311
3-6"	124	115	84.4	238	103	166	98.1	123	75.8	123	126	60.2	46	12	120	29	149
6-12"	47.9	31.1	19.1	19.3	18.4	79.5	32	51.4	35.7	104	122	2.46	37	12	47	23	70
12-18"	9.63	3.87	2.57	0.768	9.22	77.3	17.6	4.68	34.8	112	22.6	1.85	35	12	25	22	47

ESA-61 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	189	228	283	138	191	158	151	176	193	215	42	10	192	30	222
1-3"	189	232	286	153	168	148	145	167	175	233	46	10	190	33	223
3-6"	81.8	186	213	105	131	132	169	93	126	207	47	10	144	34	178
6-12"	16.4	77.8	40.8	30	32.8	69.7	26.1	41.5	83.1	69.3	24	10	49	17	66
12-18"	0.605	1.31	11.4	1.71	7.83	7.77	7.61	6.33	6.58	16.9	5	10	7	4	10

ESA-62 Sample Depth	1D	2D	3D	4D	5D	6D	7D	8D	9D	10D	DZ-1D	Std Dev	Sample Size	Mean	95% CI	95% UCL
0-1"	98.5	51.7	56.3	63.6	87.1	46.3	54.3	68.4	69	73	114	21	11	71	14	85
1-3"	103	19.6	52.4	32	95.6	53.2	49.6	54.8	60.7	89.6	181	44	11	72	30	102
3-6"	124	21.4	132	37.1	86.5	29.8	30.2	38.8	58	96.3	134	44	11	72	30	101
6-12"	51.1	27.7	105	99.2	48.7	9.55	9.77	37.5	13.8	27.2	10.8	34	11	40	23	63
12-18"	3.43	3.86	21.1	5.49	35.2	39.2	28.7	42.3	1.08	7.87	2.15	16	11	17	11	28