

**Orange County Public Works
Land Surveying Geomatics Department
Glassell Field Office**



Esperanza Channel (E06) Monitoring Project

Horizontal Datum: NAD 83 CCS Zone VI, 2017.50 Epoch OCS Adjustment

Vertical Datum: NAVD 88, OCS 1995 Adjustment

U.S. Survey Foot

Basis of Stationing

The Basis for Stationing is STA 52+93.87 Per Record Plan E06-701-3

Dated August 1978 Revision Dated May 1983 Held at the
Intersection of Esperanza Channel (E06) and Dominguez Ranch Rd Centerline.

THIS DATA IS TO SUPPLEMENT OCS PROJECT #2122PW-OP0002

Note : Standard Deviations (σ^2) at two sigma 95%

BASELINE DATA					DATE OF SURVEY: 5/23/2022		
POINT #	STATION	Northing (ft)	Easting (ft)	Elev (ft)	Major σ^2	Minor σ^2	Elev σ^2
400	64+21.43	2269334.915	6102241.784	492.73	0.021	0.016	0.012
401	64+19.32	2269332.845	6102242.098	492.61	0.023	0.016	0.012
402	63+01.48	2269219.837	6102272.209	486.86	0.018	0.016	0.011
403	62+99.44	2269217.901	6102272.787	486.78	0.021	0.016	0.011
404	62+55.91	2269176.422	6102285.298	485.11	0.014	0.016	0.011
405	62+53.93	2269174.487	6102285.749	485.00	0.018	0.016	0.011
406	62+30.53	2269152.843	6102294.351	484.09	0.018	0.017	0.011
407	62+28.43	2269150.946	6102295.23	484.00	0.017	0.017	0.011
408	61+90.68	2269116.488	6102310.185	482.60	0.018	0.016	0.011
409	61+88.69	2269114.638	6102310.911	482.55	0.016	0.016	0.011
410	61+51.16	2269081.009	6102327.165	481.21	0.015	0.016	0.011
411	61+49.05	2269079.112	6102328.06	481.14	0.017	0.016	0.011
412	61+11.20	2269045.881	6102345.816	479.76	0.013	0.016	0.011
413	59+91.76	2268945.731	6102409.726	475.34	0.013	0.016	0.011
414	59+89.78	2268944.099	6102410.829	475.30	0.013	0.016	0.011
415	59+52.10	2268914.251	6102433.519	474.03	0.016	0.016	0.011
416	59+50.11	2268912.732	6102434.793	473.99	0.016	0.016	0.011
417	59+12.25	2268883.682	6102458.789	472.62	0.016	0.017	0.011
418	58+72.23	2268853.897	6102485.217	471.21	0.015	0.016	0.011
419	58+32.56	2268825.444	6102512.581	469.65	0.015	0.016	0.011
420	56+73.61	2268723.017	6102632.917	463.72	0.015	0.018	0.011
421	56+72.10	2268722.01	6102634.047	463.67	0.016	0.018	0.011
422	56+33.68	2268700.308	6102665.536	462.17	0.016	0.018	0.011
423	56+31.66	2268699.268	6102667.259	462.14	0.016	0.018	0.011
424	55+93.87	2268679.393	6102699.183	460.59	0.024	0.018	0.011
425	54+34.63	2268606.976	6102840.27	454.50	0.022	0.018	0.011
426	54+32.67	2268606.099	6102842.019	454.45	0.026	0.018	0.011
427	53+92.72	2268589.636	6102878.417	452.86	0.025	0.017	0.011
428	62+30.71	2269149.454	6102285.597	484.14	0.024	0.017	0.011
429	62+56.03	2269173.066	6102276.124	485.15	0.016	0.015	0.010
430	62+53.40	2269170.617	6102277.126	485.05	0.057	0.017	0.012
431	53+94.69	2268590.327	6102876.561	452.95	0.020	0.016	0.011

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QUARTERLY DATA					DATE OF SURVEY: 4/25/2023		
POINT #	STATION	Northing (ft)	Easting (ft)	Elev (ft)	Delta N	Delta E	Delta H
400	64+21.42	2269334.909	6102241.788	492.71	0.01	0.00	0.02
401	64+19.31	2269332.842	6102242.100	492.59	0.00	0.00	0.02
402	63+01.46	2269219.828	6102272.205	486.85	0.01	0.00	0.01
403	62+99.42	2269217.888	6102272.777	486.78	0.01	0.01	0.00
404	62+55.89	2269176.409	6102285.304	485.11	0.01	-0.01	0.00
405	62+53.90	2269174.462	6102285.732	484.99	0.02	0.02	0.01
406	62+30.52	2269152.833	6102294.327	484.08	0.01	0.02	0.01
407	62+28.42	2269150.947	6102295.217	483.99	0.00	0.01	0.01
408	61+90.70	2269116.492	6102310.178	482.59	0.00	0.01	0.01
409	61+88.70	2269114.640	6102310.886	482.54	0.00	0.03	0.01
410	61+51.17	2269080.997	6102327.125	481.20	0.01	0.04	0.01
411	61+49.06	2269079.107	6102328.027	481.13	0.00	0.03	0.01
412	61+11.18	2269045.869	6102345.771	479.75	0.01	0.05	0.01
413	59+91.75	2268945.713	6102409.723	475.34	0.02	0.00	0.00
414	59+89.77	2268944.080	6102410.818	475.28	0.02	0.01	0.02
415	59+52.09	2268914.250	6102433.515	474.02	0.00	0.00	0.01
416	59+50.11	2268912.735	6102434.783	473.98	0.00	0.01	0.01
417	59+12.25	2268883.674	6102458.761	472.62	0.01	0.03	0.00
418	58+72.23	2268853.893	6102485.211	471.21	0.00	0.01	0.00
419	58+32.55	2268825.437	6102512.582	469.66	0.01	0.00	-0.01
420	56+73.61	2268723.008	6102632.892	463.72	0.01	0.03	0.00
421	56+72.09	2268721.978	6102634.021	463.67	0.03	0.03	0.00
422	56+33.68	2268700.293	6102665.507	462.16	0.01	0.03	0.01
423	56+31.67	2268699.264	6102667.240	462.13	0.00	0.02	0.01
424	55+93.87	2268679.400	6102699.171	460.59	-0.01	0.01	0.00
425	54+34.62	2268606.959	6102840.239	454.52	0.02	0.03	-0.02
426	54+32.67	2268606.074	6102841.989	454.47	0.02	0.03	-0.02
427	53+92.69	2268589.618	6102878.403	452.87	0.02	0.01	-0.01
428	62+30.70	2269149.447	6102285.604	484.13	0.01	-0.01	0.01
429	62+56.01	2269173.064	6102276.127	485.14	0.00	0.00	0.01
430	62+53.36	2269170.603	6102277.151	485.05	0.01	-0.02	0.00
431	53+94.70	2268590.325	6102876.541	452.97	0.00	0.02	-0.02

QUARTERLY DATA					DATE OF SURVEY: 8/08/2023		
POINT #	STATION	Northing (ft)	Easting (ft)	Elev (ft)	Delta N	Delta E	Delta H
400	64+21.40	2269334.903	6102241.794	492.72	0.01	-0.01	0.02
401	64+19.30	2269332.839	6102242.113	492.60	0.01	-0.02	0.01
402	63+01.45	2269219.824	6102272.213	486.86	0.01	0.00	0.00
403	62+99.42	2269217.886	6102272.782	486.79	0.01	0.00	-0.01
404	62+55.88	2269176.414	6102285.313	485.12	0.01	-0.02	0.00
405	62+53.90	2269174.462	6102285.731	485.00	0.02	0.02	0.00
406	62+30.52	2269152.836	6102294.325	484.10	0.01	0.03	-0.01
407	62+28.42	2269150.945	6102295.224	484.00	0.00	0.01	0.00
408	61+90.68	2269116.499	6102310.179	482.60	-0.01	0.01	0.00
409	61+88.69	2269114.646	6102310.896	482.55	-0.01	0.02	0.00
410	61+51.16	2269081.003	6102327.128	481.21	0.01	0.04	0.00
411	61+49.05	2269079.111	6102328.031	481.14	0.00	0.03	0.00
412	61+11.19	2269045.869	6102345.778	479.76	0.01	0.04	0.00
413	59+91.73	2268945.712	6102409.727	475.33	0.02	0.00	0.01
414	59+89.76	2268944.082	6102410.82	475.28	0.02	0.01	0.02
415	59+52.09	2268914.246	6102433.518	474.02	0.00	0.00	0.01
416	59+50.11	2268912.738	6102434.787	473.98	-0.01	0.01	0.01
417	59+12.24	2268883.673	6102458.781	472.61	0.01	0.01	0.01
418	58+72.23	2268853.91	6102485.217	471.21	-0.01	0.00	0.00
419	58+32.55	2268825.435	6102512.571	469.65	0.01	0.01	0.00
420	56+73.62	2268723.034	6102632.912	463.73	-0.02	0.01	-0.01
421	56+72.08	2268721.988	6102634.04	463.68	0.02	0.01	-0.01
422	56+33.68	2268700.291	6102665.512	462.16	0.02	0.02	0.01
423	56+31.67	2268699.274	6102667.244	462.13	-0.01	0.02	0.01
424	55+93.88	2268679.392	6102699.162	460.59	0.00	0.02	0.00
425	54+34.64	2268606.962	6102840.238	454.52	0.01	0.03	-0.02
426	54+32.67	2268606.084	6102841.999	454.48	0.01	0.02	-0.03
427	53+92.71	2268589.611	6102878.401	452.87	0.02	0.02	-0.01
428	62+30.67	2269149.427	6102285.612	484.14	0.03	-0.01	0.00
429	62+55.99	2269173.033	6102276.123	485.16	0.03	0.00	-0.01
430	62+53.35	2269170.587	6102277.155	485.05	0.03	-0.03	0.00
431	53+94.69	2268590.314	6102876.547	452.97	0.01	0.01	-0.02

QUARTERLY DATA					DATE OF SURVEY: 11/08/2023		
POINT #	STATION	Northing (ft)	Easting (ft)	Elev (ft)	Delta N	Delta E	Delta H
400	64+21.42	2269334.912	6102241.79	492.709	0.00	-0.01	0.02
401	64+19.31	2269332.834	6102242.094	492.593	0.01	0.00	0.02
402	63+01.46	2269219.824	6102272.21	486.846	0.01	0.00	0.01
403	62+99.43	2269217.885	6102272.778	486.775	0.02	0.01	0.00
404	62+55.89	2269176.409	6102285.307	485.099	0.01	-0.01	0.01
405	62+53.93	2269174.484	6102285.73	485.002	0.00	0.02	0.00
406	62+30.53	2269152.846	6102294.339	484.094	0.00	0.01	0.00
407	62+28.45	2269150.968	6102295.235	484.001	-0.02	0.00	0.00
408	61+90.69	2269116.494	6102310.18	482.588	-0.01	0.01	0.01
409	61+88.70	2269114.639	6102310.891	482.54	0.00	0.02	0.01
410	61+51.17	2269080.998	6102327.12	481.198	0.01	0.05	0.01
411	61+49.05	2269079.102	6102328.037	481.125	0.01	0.02	0.01
412	61+11.21	2269045.891	6102345.793	479.765	-0.01	0.02	0.00
413	59+91.75	2268945.724	6102409.725	475.322	0.01	0.00	0.02
414	59+89.77	2268944.085	6102410.815	475.268	0.01	0.01	0.03
415	59+52.10	2268914.239	6102433.512	474.006	0.01	0.01	0.02
416	59+50.13	2268912.74	6102434.78	473.964	-0.01	0.01	0.03
417	59+12.26	2268883.673	6102458.762	472.6	0.01	0.03	0.02
418	58+72.24	2268853.9	6102485.211	471.204	0.00	0.01	0.01
419	58+32.55	2268825.442	6102512.599	469.652	0.00	-0.02	0.00
420	56+73.62	2268723.023	6102632.911	463.705	-0.01	0.01	0.02
421	56+72.09	2268721.978	6102634.034	463.657	0.03	0.01	0.01
422	56+33.69	2268700.273	6102665.503	462.14	0.03	0.03	0.03
423	56+31.68	2268699.279	6102667.241	462.12	-0.01	0.02	0.02
424	55+93.89	2268679.396	6102699.164	460.567	0.00	0.02	0.02
425	54+34.62	2268606.954	6102840.26	454.501	0.02	0.01	0.00
426	54+32.67	2268606.068	6102842.002	454.45	0.03	0.02	0.00
427	53+92.70	2268589.628	6102878.433	452.866	0.01	-0.02	-0.01
428	62+30.70	2269149.445	6102285.6	484.136	0.01	0.00	0.00
429	62+56.00	2269173.036	6102276.131	485.151	0.03	-0.01	0.00
430	62+53.35	2269170.585	6102277.173	485.048	0.03	-0.05	0.00
431	53+94.70	2268590.34	6102876.56	452.958	-0.01	0.00	-0.01

QUARTERLY DATA					DATE OF SURVEY: 01/30/2024		
POINT #	STATION	Northing (ft)	Easting (ft)	Elev (ft)	Delta N	Delta E	Delta H
400	64+21.41	2269334.903	6102241.772	492.683	0.01	0.01	0.05
401	64+19.30	2269332.833	6102242.087	492.566	0.01	0.01	0.04
402	63+01.45	2269219.823	6102272.207	486.824	0.01	0.00	0.04
403	62+99.42	2269217.883	6102272.774	486.751	0.02	0.01	0.03
404	62+55.89	2269176.418	6102285.299	485.084	0.00	0.00	0.03
405	62+53.90	2269174.463	6102285.726	484.979	0.02	0.02	0.02
406	62+30.53	2269152.841	6102294.316	484.068	0.00	0.03	0.02
407	62+28.42	2269150.943	6102295.218	483.973	0.00	0.01	0.03
408	61+90.69	2269116.501	6102310.162	482.569	-0.01	0.02	0.03
409	61+88.69	2269114.638	6102310.878	482.519	0.00	0.03	0.03
410	61+51.15	2269080.995	6102327.130	481.177	0.01	0.04	0.03
411	61+49.05	2269079.105	6102328.032	481.102	0.01	0.03	0.04
412	61+11.19	2269045.879	6102345.799	479.725	0.00	0.02	0.03
413	59+91.74	2268945.728	6102409.725	475.302	0.00	0.00	0.04
414	59+89.77	2268944.093	6102410.814	475.251	0.01	0.02	0.05
415	59+52.10	2268914.256	6102433.508	473.988	-0.01	0.01	0.04
416	59+50.12	2268912.736	6102434.778	473.947	0.00	0.01	0.04
417	59+12.24	2268883.661	6102458.769	472.587	0.02	0.02	0.03
418	58+72.23	2268853.895	6102485.208	471.186	0.00	0.01	0.02
419	58+32.55	2268825.428	6102512.572	469.628	0.02	0.01	0.02
420	56+73.61	2268723.018	6102632.909	463.699	0.00	0.01	0.02
421	56+72.09	2268721.975	6102634.020	463.651	0.04	0.03	0.02
422	56+33.68	2268700.273	6102665.504	462.134	0.03	0.03	0.04
423	56+31.66	2268699.266	6102667.248	462.108	0.00	0.01	0.03
424	55+93.87	2268679.400	6102699.175	460.559	-0.01	0.01	0.03
425	54+34.62	2268606.962	6102840.256	454.487	0.01	0.01	0.01
426	54+32.66	2268606.074	6102842.001	454.438	0.02	0.02	0.01
427	53+92.69	2268589.640	6102878.439	452.86	0.00	-0.02	0.00
428	62+30.69	2269149.456	6102285.608	484.111	0.00	-0.01	0.03
429	62+56.01	2269173.059	6102276.129	485.124	0.01	-0.01	0.03
430	62+53.36	2269170.600	6102277.152	485.021	0.02	-0.03	0.03
431	53+94.69	2268590.345	6102876.563	452.948	-0.02	0.00	0.00