PORTUGUESE BEND LANDSLIDE MONITORING - MOVEMENT as of February 3, 2025
Prepared by McGee Surveying Consulting - Document Date: February 8, 2025
Monitoring Point Movements
Full MONITORING #64 (M64)

Michael R. McGee, PLS3945

REGISTERED LAND SURVEYOR MICHAEL RANDOLPH MCGEE LS3945 STATE OF CALIFORNIA

Note:
An average month is 30.42 days
* = Indicates no horizontal movement detected in the Period at the 95% level of confidence
$ = Overall Movement is Relative to the Date of Origin which varies, see Page 1 for Date
1 = Probable Error of the Indicated Movement not the Rate/Month
2 = The normalized rate is based on a 6.1x multiplyer which reflects noise & movement; The noise (95% Error) is estimated at 0.10' therefore results in this column may be miss-leading

	February 3, 2025 Positions			$ Overall Movements (US Feet)					Periodic Movements M60 to M64 (US Feet)									Periodic Movements M63 to M64 (US Ft)					
	NAD83 CA SPC Zone 5		NAVD88	Original Position to February 3, 2025					January 7, 2025 to February 3, 2025 (27 days / 0.888 Mo.)								Rate/Mo	Jan. 29 to Feb. 3, 2025 (5 days / 0.164 Mo.)					
Point	North (ft)	East (ft)	Elev(ft)	North	East	Height	Azim.°	2D Dist.	North	East	Height	Azim.	2D Dist	95%Err(1)	Rate/Mo	Note	% Chg	North	East	Height	Azim.	2D Dist.	Rate/Mo.(2)
AB01	1729427.53	6445709.62	178.68	-0.06	0.01	0.06	175	0.06	-0.01	0.01	0.04	131	0.01	0.04		*		-0.03	0.00	0.04	184	0.03	
AB02																							
AB04	1728359.04	6447090.17	62.68	-32.95	-33.17	-4.89	225	46.76	-0.88	-0.93	-0.12	227	1.28	0.04	1.44		-7	-0.17	-0.16	-0.03	222	0.23	1.42
AB05	1728049.05	6447614.68	77.50	-26.67	-30.49	-3.40	229	40.51	-0.78	-0.79	0.03	225	1.11	0.04	1.25		-10						
AB13	1729887.13	6448224.78	356.83	-41.77	-11.26	-8.20	195	43.26	-1.48	-0.30	-0.33	191	1.51	0.04	1.70		-5						
AB16	1730329.98	6447526.57	374.73	-28.90	-5.56	-1.89	191	29.43	-1.14	-0.18	-0.02	189	1.16	0.04	1.30		5						
AB17	1731420.97	6446727.81	442.74	-0.15	0.03	-0.06	168	0.16	0.01	0.03	-0.05	66	0.03	0.04	0.03	*							
AB21	1729310.96	6449663.02	394.13	-44.11	-12.00	-0.81	195	45.72	-1.33	-0.24	-0.03	190	1.35	0.04	1.52		-9						
AB24	1729785.59	6447747.90	334.26	-44.76	-12.06	-1.66	195	46.36	-1.58	-0.28	-0.19	190	1.60	0.04	1.81		-6						
AB50	1728068.82	6448227.44	184.30	-16.18	-20.74	2.32	232	26.30	-0.37	-0.48	0.03	233	0.61	0.04	0.69		-1	-0.10	-0.10	-0.01	226	0.14	0.85
AB51	1729583.24	6447294.14	303.88	-33.77	-12.40	-1.54	200	35.98	-1.23	-0.38	0.00	197	1.29	0.04	1.45		-3						
AB53	1730386.93	6449704.70	348.37	-44.17	-7.67	-4.76	190	44.83	-1.32	-0.20	-0.12	189	1.33	0.04	1.50		-7						
AB57	1731894.27	6449751.99	554.79	-32.63	-7.38	-10.14	193	33.46	-0.99	-0.70	-0.31	215	1.21	0.04	1.37		-5						
AB58	1731075.00	6449072.52	398.02	-43.02	-2.41	-7.65	183	43.09	-1.40	-0.13	-0.33	185	1.40	0.04	1.58		-11						
AB59	1730802.00	6450207.51	421.60	-48.86	-5.05	-12.77	186	49.12	-1.47	-0.17	-0.38	187	1.48	0.04	1.67		-3						
AB60	1729052.00	6447970.00	176.30	-37.70	-17.57	-3.15	205	41.59	-1.27	-0.60	-0.03	205	1.40	0.04	1.58		-6						
AB62	1728880.45	6446908.40	139.85	-29.90	-17.06	-3.16	210	34.42	-0.89	-0.63	-0.07	215	1.09	0.04	1.23		-4	-0.18	-0.13	-0.03	216	0.22	1.33
AB63	1729024.52	6447286.97	170.44	-34.77	-20.07	-10.40	210	40.15	-1.10	-0.70	-0.34	212	1.31	0.04	1.47		-3	-0.17	-0.11	-0.01	214	0.20	1.24
AB64	1731829.24	6447374.42	531.61	-1.45	1.34	-0.64	137	1.97	-0.02	0.02	-0.03	137	0.02	0.04	0.03	*							
AB65	1731671.84	6448268.44	448.39	-33.84	4.37	-10.14	173	34.12	-1.22	0.05	-0.42	178	1.22	0.04	1.38		-7						
AB66	1730008.43	6448480.96	368.62	-38.85	-9.57	-5.66	194	40.02	-1.36	-0.27	-0.14	191	1.39	0.04	1.56		-3						
AB67	1731152.96	6447739.91	399.20	-27.45	-1.84	-6.12	184	27.51	-1.04	-0.09	-0.20	185	1.04	0.04	1.17		-2						
AB68	1730221.03	6448047.32	386.48	-37.82	-8.04	-6.96	192	38.67	-1.36	-0.26	-0.25	191	1.38	0.04	1.56		-4						
AB70	1729247.70	6448337.65	250.44	-43.78	-15.22	-3.70	199	46.35	-1.55	-0.40	-0.13	195	1.60	0.04	1.80		2						
AB73	1728421.01	6448380.86	303.74	-35.03	-13.17	-2.97	201	37.42	-0.95	-0.30	-0.15	198	1.00	0.04	1.13		-8						
AB74	1729594.06	6446845.36	269.40	-11.53	-7.79	-2.50	214	13.91	-0.60	-0.45	-0.13	217	0.75	0.04	0.85		-8						
AB75	1729592.75	6449329.24	347.80	-27.41	-7.12	-1.22	195	28.32	-1.33	-0.24	-0.06	190	1.36	0.04	1.53		-9						
AB76	1730022.75	6446807.03	385.76	-0.37	0.39	-0.52	134	0.54	-0.03	0.05	-0.02	121	0.06	0.04	0.07								
AB77	1733161.93	6446514.83	895.34	0.01	-0.03	0.02	286	0.03	0.02	0.02	-0.06	42	0.02	0.04	0.03	*							
AB78	1732238.94	6448523.51	568.82	-2.22	0.64	-0.93	164	2.31	0.08	-0.15	-0.12	297	0.17	0.04		Disturbed							
AB79	1734784.23	6448718.99	1169.64	0.03	-0.01	-0.13	340	0.03	0.01	-0.02	-0.11	302	0.02	0.04	0.03	*							
AB80	1734692.18	6447838.30	1165.44	0.03	0.00	-0.11	358	0.03	0.03	-0.01	-0.12	333	0.03	0.04	0.04	*							
AB81	1731136.13	6448788.08	395.44	-4.26	-0.36	-0.87	185	4.28	-1.32	-0.12	-0.29	185	1.32	0.04	1.49		-8	-0.22	-0.02	-0.08	184	0.22	1.35
CR50	1733013.08	6451036.42	872.26	-0.54	-0.96	-0.40	241	1.10	0.00	0.00	-0.06	37	0.01	0.04	0.01	*							
CR51	1733061.35	6452360.84	975.89	-0.68	-1.02	-0.36	236	1.23	0.02	-0.02	-0.12	315	0.02	0.04	0.03	*							
CR53	1732779.46	6450222.82	780.27	-0.81	-1.37	-0.46	239	1.59	0.02	-0.01	-0.08	333	0.02	0.04	0.02	*							
CR54	1731207.76	6450984.80	518.49	-37.48	-7.03	-9.05	191	38.13	-1.22	-0.42	-0.16	199	1.28	0.04	1.45		-6						
CR55																							
CR55A	1735437.69	6450188.39	1157.23	0.02	-0.02	-0.04	319	0.03	0.02	-0.01	-0.14	343	0.02	0.04	0.03	*							
CR56	1733194.39	6449201.91	782.63	-0.01	0.01	0.05	140	0.02	0.01	-0.02	-0.03	292	0.02	0.04	0.02	*							
CR57	1731568.84	6451323.47	619.42	-0.03	-0.06	0.48	243	0.07	0.02	-0.01	-0.02	332	0.02	0.04	0.03	*							
CR58	1732680.44	6452989.34	916.89	-0.17	-0.21	-0.11	230	0.27	0.01	-0.02	-0.06	288	0.03	0.04	0.03	*							
CR59	1731860.95	6453394.73	878.05	-0.02	-0.01	-0.04	215	0.02	0.01	-0.01	-0.04	308	0.02	0.04	0.02	*							
CR60	1732970.80	6452807.49	921.81	-0.04	-0.10	-0.05	251	0.11	0.02	-0.04	-0.05	297	0.05	0.04	0.05	*							
CW01	1734174.36	6450266.36	1175.34	0.05	0.03	0.00	34	0.06	0.02	0.00	-0.11	344	0.02	0.04	0.02	*							
CW05	1732067.28	6450634.49	701.86	-1.08	-1.02	-0.07	223	1.48	0.02	-0.02	-0.07	323	0.03	0.04	0.03	*							
CW06	1730906.26	6452118.20	529.79	0.02	0.03	0.02	54	0.03	0.02	0.00	-0.04	348	0.02	0.04	0.02	*							
CW07																							
CW08	1729146.33	6453119.79	607.48	0.04	0.00	0.02	7	0.04	0.02	0.00	-0.03	2	0.02	0.04	0.03	*							
FT06																							
FT08	1729388.70	6453350.49	658.32	0.02	-0.02	-0.12	312	0.03	0.03	0.01	-0.09	23	0.03	0.04	0.04	*							
FT09	1729052.88	6454289.24	590.82	-0.02	-0.06	-0.01	249	0.06	0.01	0.01	-0.02	42	0.01	0.04	0.01	*							
FT10	1730454.57	6452471.93	482.24	0.00	0.01	-0.11	90	0.01	0.03	0.00	-0.04	9	0.03	0.04	0.04	*							
KC05	1727077.20	6453174.11	226.79	-4.80	-4.99	-1.07	226	6.92	-0.01	-0.03	-0.01	260	0.03	0.04	0.03	*							
KC06	1727782.51	6453384.98	295.74	-2.40	-11.68	-4.61	258	11.93	0.01	0.05	0.01	81	0.05	0.04	0.05								
KC07	1727759.40	6453683.89	313.46	0.02	0.04	-0.05	60	0.05	0.00	0.01	0.02	98	0.01	0.04	0.01	*							
KC13	1726576.30	6453068.87	192.05	-4.85	-0.76	0.85	189	4.91	-0.03	0.01	0.04	164	0.03	0.04	0.03	*		-0.04	0.00	-0.01	181	0.04	0.25
KC14	1726742.30	6453805.54	260.00	-0.14	-0.51	0.06	255	0.53	-0.01	0.01	0.02	126	0.01	0.04	0.02	*							
KC15	1727584.38	6453111.53	284.09	-6.07	-9.57	-3.01	238	11.33	-0.04	0.02	-0.02	156	0.04	0.04	0.05	*		-0.03	0.01	0.00	153	0.03	0.19
KC16	1727602.26	6454098.25	327.19	0.01	0.01	0.29	45	0.02	0.02	0.00	-0.04	354	0.02	0.04	0.02	*							
KC17	1727295.88	6453019.54	212.73	-6.88	-6.89	-2.52	225	9.74	0.02	-0.03	-0.10	301	0.04	0.04	0.04	*		-0.01	-0.01	0.01	219	0.01	0.09
KC18	1727979.51	6452613.70	289.19	-20.99	-8.47	-1.99	202	22.63	-0.04	0.01	0.06	162	0.04	0.04	0.05	*							
KC19	1727780.03	6453488.61	302.78	-0.37	-8.61	-3.55	268	8.62	-0.02	0.00	-0.02	167	0.02	0.04	0.02	*							
KC20	1727695.35	6453561.65	303.76	0.18	-7.89	-3.54	271	7.89	-0.03	0.00	-0.04	174	0.03	0.04	0.03	*							
KC21	1728095.87	6453495.12	383.57	0.05	0.04	-0.04	35	0.06	0.03	0.01	-0.04	20	0.03	0.04	0.03	*							
KC22	1728008.16	6453287.44	329.17	-2.00	-10.45	-5.18	259	10.64	0.00	0.00	-0.01	214	0.00	0.04	0.00	*							
KC23	1727348.76	6453321.59	267.58	-2.67	-5.42	-1.73	244	6.04	-0.03	0.00	0.01	187	0.03	0.04	0.04	*							
KC24	Destroyed															Destroyed							
KC25	1726304.90	6452805.42	19.85	-0.39	-0.19	0.05	206	0.43	0.01	0.02	0.08	67	0.03	0.04	0.03	*							
KC26	1726723.10	6452425.83	31.08	-6.43	-1.29	6.33	191	6.56	0.00	0.03	-0.07	84	0.03	0.04	0.04	*							
KC28	1726768.65	6451998.90	26.23	-9.15	-1.01	6.29	186	9.21	-0.02	0.02	-0.02	131	0.03	0.04	0.04	*							
KC29	1726923.99	6451934.55	19.99	-10.44	-3.09	2.09	196	10.89	-0.02	0.00	-0.01	180	0.02	0.04	0.02	*							
KC30	1727529.57	6452142.02	97.68	-14.47	-4.49	-2.57	197	15.16	-0.01	0.01	-0.06	129	0.01	0.04	0.01	*							
KC31	1727911.14	6452353.24	206.91	-13.79	-4.96	-0.59	200	14.66	-0.02	0.01	0.02	143	0.02	0.04	0.02	*		-0.01	-0.01	0.00	229	0.01	0.06
KC33	1727817.32	6453174.71	310.35	-1.19	-3.43	-1.55	251	3.63	-0.03	0.00	0.04	187	0.03	0.04	0.03	*							
KC34	1726698.42	6454866.44	325.39	0.01	0.00	0.02	9	0.01	0.03	-0.02	0.03	328	0.03	0.04	0.03	*							
KC35	1726861.67	6454504.97	313.28	0.01	0.01	-0.02	45	0.01	0.00	0.00	0.00	180	0.00	0.04	0.00	*							
KC36	1726390.06	6454165.10	254.99	-0.01	-0.05	-0.02	256	0.05	-0.02	-0.04	-0.03	242	0.04	0.04	0.05	*							
KC37	1726109.84	6454779.85	280.31	0.02	0.00	-0.02	15	0.02	0.00	0.01	-0.04	90	0.01	0.04	0.01	*							
KC38	Destroyed															Destroyed							
PB04	1727622.89	6448833.07	164.31	-53.04	-18.67	-6.21	199	56.23	-0.99	-0.30	0.04	197	1.03	0.04	1.16		-3	-0.22	-0.05	0.02	193	0.22	1.35
PB06	1727897.49	6449747.93	173.93	-70.95	-13.91	-9.13	191	72.31	-0.75	-0.05	0.02	184	0.75	0.04	0.85		4	-0.16	-0.01	0.06	184	0.16	0.97
PB07	1728091.75	6450198.26	195.96	-84.18	-21.50	-4.25	194	86.88	-0.83	-0.09	0.08	186	0.83	0.04	0.94		6	-0.16	-0.01	0.05	183	0.16	1.00
PB08	1728159.21	6450450.55	195.97	-78.29	-19.25	2.29	194	80.63	-0.69	-0.03	0.18	182	0.69	0.04	0.78		2	-0.16	0.00	0.06	179	0.16	0.99
PB09	1728205.89	6450840.69	188.46	-82.69	-10.33	-4.06	187	83.33	-0.56	0.10	0.14	170	0.57	0.04	0.64		1	-0.10	0.00	0.01	178	0.10	0.61
PB12	1728204.08	6451566.60	178.33	-126.40	-37.96	-14.96	197	131.98	-0.44	-0.03	-0.09	184	0.44	0.04	0.49		0	-0.12	0.01	0.04	175	0.12	0.72
PB13	1728005.25	6452133.07	205.75	-80.72	-31.27	-4.79	201	86.57	-0.14	-0.07	0.00	206	0.15	0.04	0.17		23	-0.05	-0.01	0.04	188	0.05	0.33
PB18	1730385.77	6450714.75	356.72	-61.11	3.75	-10.86	176	61.23	-1.16	-0.09	-0.16	184	1.16	0.04	1.31		-7						
PB20	1728691.98	6451110.91	225.41	-120.79	-24.77	-18.14	192	123.30	-0.63	-0.02	-0.05	182	0.63	0.04	0.71		-4						
PB21	1729196.91	6451171.12	266.19	-101.31	-0.93	-13.83	181	101.31	-0.72	0.07	-0.11	174	0.72	0.04	0.81		-5						
PB26	1729505.12	6452245.70	280.06	-57.53	-3.86	-5.28	184	57.66	-0.23	0.05	0.01	167	0.24	0.04	0.27		2	-0.05	0.01	-0.02	173	0.05	0.31
PB27	1729192.01	6451833.97	261.67	-147.33	-2.09	-22.75	181	147.34	-0.68	0.05	-0.10	176	0.68	0.04	0.76		-2						
PB29	1728803.28	6452077.39	160.13	-85.67	-43.10	-25.80	207	95.90	-0.15	-0.11	-0.04	217	0.18	0.04	0.21		17						
PB54	1729646.63	6450439.06	355.80	-48.27	-9.62	-2.82	191	49.22	-1.17	-0.08	-0.12	184	1.17	0.04	1.32		-8						
PB55	1728728.99	6450790.18	231.99	-83.30	-13.86	-14.34	189	84.44	-0.79	-0.04	-0.19	183	0.79	0.04	0.89		-7						
PB59	1727710.18	6448644.07	151.92	-56.19	-17.60	-11.47	197	58.88	-0.98	-0.32	0.01	198	1.03	0.04	1.16		-3						
PB67	1727550.83	6450841.92	64.46	-87.90	-16.26	-11.55	190	89.39	-0.49	-0.04	-0.08	185	0.49	0.04	0.55		8	-0.13	0.03	-0.11	166	0.14	0.83
PB68	1727625.70	6448969.09	171.93	-39.75	-13.90	-1.17	199	42.11	-1.04	-0.25	0.00	194	1.07	0.04	1.20		0						
PB69	1727741.57	6448763.17	162.24	-41.48	-15.42	-2.44	200	44.25	-0.95	-0.30	0.02	197	0.99	0.04	1.12		-4						
PB70	1727813.86	6448603.67	149.70	-41.05	-15.92	-6.54	201	44.03	-0.99	-0.29	0.02	197	1.03	0.04	1.16		-6	-0.19	-0.06	0.06	197	0.20	1.24
PB71RP	1728427.96	6449740.94	284.00	-5.71	-0.67	-0.85	187	5.74	-1.25	-0.14	-0.15	186	1.26	0.04	1.42		-7						
PB72	1727618.23	6449327.51	199.17	-32.09	-13.92	3.28	203	34.98	-0.95	-0.29	-0.02	197	1.00	0.04	1.13		-2						
PB74																							
PB75	1729047.62	6450345.01	268.52	-36.24	-6.90	-3.38	191	36.89	-1.04	-0.02	-0.16	181	1.04	0.04	1.17		-4						
PB76	1729969.48	6451645.72	291.22	-3.62	-0.15	-0.57	182	3.62	-0.46	0.04	-0.05	175	0.46	0.04	0.52		-7	-0.09	0.00	0.00	182	0.09	0.56
PB77	1727520.23	6451675.98	99.08	-0.40	-0.05	0.04	187	0.40	-0.40	-0.05	0.04	187	0.40	0.04	0.45								
UB02	1727472.13	6450140.28	65.47	-108.99	6.49	-1.68	177	109.18	-0.29	0.09	0.00	163	0.30	0.04	0.34		10						
PVE3RP	1729195.88	6438764.70	346.91	0.00	0.02	0.03		0.02	-0.01	0.03	0.04		0.03	0.04		*							
RP01	1725591.74	6455633.55	292.75	0.00	0.01	0.04		0.01	0.00	0.01	0.03		0.01	0.04		*							
RP02	1730832.98	6445586.64	480.61	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	Fixed		Fixed							
RP03	1730848.51	6445628.20	479.95	0.00	0.00	0.00		0.00	0.01	0.00	-0.01		0.01	0.04		*							
RP05	1730809.67	6445501.99	474.22	0.01	0.00	0.01		0.01	0.01	0.00	0.01		0.01	0.04		*							
														Av.	0.60	Av.	-2					Av.	0.78