

APPENDIX 1A

**PIEZOMETER LOCATIONS:
COMPARISON OF AIRQUEST, TOTAL STATION
AND GPS SURVEYS**

FINAL REPORT 1995

NOVEMBER, 1995

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Table 1A-1: Comparison of Original Airquest and GPS Surveys

PIEZOMETER	GPS SURVEY		TOTAL STATION SURVEY		DIFFERENCE	
	NORTHING [feet]	EASTING [feet]	NORTHING [feet]	EASTING [feet]	NORTHING [feet]	EASTING [feet]
M1	17083.95	12543.44	17060.00	12535.00	23.95	8.44
M2	16871.23	12516.32	16865.00	12500.00	6.23	16.32
M3	16920.08	11352.48	16895.00	11335.00	25.08	17.48
M4	16426.83	11162.77	16380.00	11130.00	46.83	32.77
M5E	16027.01	10990.39	16020.00	11020.00	7.01	-29.61
M5W	16027.74	10987.91	16020.00	11020.00	7.74	-32.09
M13	13607.66	13734.21	13595.00	13740.00	12.66	-5.79
M18	13897.74	12314.95	13900.00	12315.00	-2.26	-0.05
M20	14288.64	11363.16	14290.00	11360.00	-1.36	3.16
M21	14553.70	11432.49	14545.00	11430.00	8.70	2.49
M24W	15394.63	11070.56	15300.00	11080.00	94.63	-9.44
M24E	15394.37	11073.32	15300.00	11080.00	94.37	-6.68
M26B	15940.31	12115.30	15940.00	12120.00	0.31	-4.70
M27N	15748.82	11094.31	15750.00	11085.00	-1.18	9.31
M27S	15745.58	11095.85	15750.00	11085.00	-4.42	10.85
M34	17127.59	11019.86	17125.00	11005.00	2.59	14.86
M38	13386.02	12673.12	13380.00	12660.00	6.02	13.12
M39	16630.55	10856.40	16600.00	10850.00	30.55	6.40
M40A	15858.90	11720.11	15890.00	11730.00	-31.10	-9.89
M57	13449.06	13806.22	13430.00	13800.00	19.06	6.22

Table 1A-2: Comparison of Total Station and GPS Surveys

PIEZOMETER	GPS SURVEY		TOTAL STATION SURVEY		DIFFERENCE	
	NORTHING [feet]	EASTING [feet]	NORTHING [feet]	EASTING [feet]	NORTHING [feet]	EASTING [feet]
M38	13386.02	12673.12	13380.00	12659.99	6.02	13.12
M18	13897.74	12314.95	13901.13	12314.25	-3.39	0.71
M82	14375.15	11318.87	14403.93	11330.58	-28.78	-11.71
M21	14553.70	11432.49	14579.48	11448.65	-25.78	-16.16
M20	14288.64	11363.16	14316.13	11372.53	-27.49	-9.37
M24N	15405.15	11069.73	15440.32	11108.20	-35.17	-38.47
M24E	15394.37	11073.32	15429.51	11111.44	-35.14	-38.12
M24W	15394.63	11070.56	15429.99	11108.59	-35.36	-38.03
M75	15562.58	11610.47	15583.87	11652.49	-21.29	-42.02
M40A	15858.90	11720.11	15877.42	11769.44	-18.52	-49.33
M40B	15867.09	11712.34	15886.05	11762.10	-18.97	-49.76
M26B	15940.31	12115.30	15948.78	12167.13	-8.47	-51.83
M27	15757.89	11091.38	15792.48	11138.83	-34.59	-47.45
M76	15834.49	10917.86	15873.73	10967.07	-39.24	-49.21
M5C	16043.29	10985.23	16081.16	11040.14	-37.86	-54.91
M4	16426.83	11162.77	16459.91	11227.30	-33.08	-64.53
M64	16498.55	11399.27	16525.54	11465.79	-26.98	-66.51
M68	16998.00	12467.35	16997.50	12546.68	0.50	-79.33
M74	16853.55	11334.20	16881.97	11409.63	-28.41	-75.44
M66A	16643.94	11236.42	16674.94	11306.49	-31.01	-70.06
M66B	16643.29	11231.80	16674.62	11301.91	-31.33	-70.11
M85	16305.58	10930.29	16344.36	10991.47	-38.77	-61.18
M72B	16174.40	10903.79	16213.96	10961.63	-39.57	-57.84
M72C	16170.78	10903.06	16210.84	10960.60	-40.05	-57.54
M72A	16176.15	10899.09	16215.90	10956.84	-39.76	-57.75
M89	16058.37	10867.23	16098.83	10922.03	-40.46	-54.80
M90	15934.00	10838.28	15975.44	10889.92	-41.44	-51.64
M83B	15944.30	10794.25	15986.71	10845.99	-42.41	-51.74
M83A	15946.48	10788.13	15989.10	10839.75	-42.62	-51.62
M88	16082.06	10809.14	16124.15	10864.32	-42.09	-55.17
M87	16204.30	10808.26	16246.50	10866.70	-42.20	-58.44
M69	16226.12	10729.72	16270.06	10788.58	-43.95	-58.85
M39	16630.55	10856.40	16671.74	10925.89	-41.18	-69.49
M39A	16636.10	10845.73	16677.45	10915.44	-41.35	-69.71
M81	17126.44	10744.54	17170.31	10826.73	-43.88	-82.19
M73	17135.69	10743.85	17179.49	10826.19	-43.79	-82.34
M79	17142.35	10884.37	17182.77	10967.10	-40.42	-82.72
M80	17142.82	10997.25	17179.91	11079.87	-37.08	-82.62
M58	17257.19	11463.42	17282.31	11549.28	-25.12	-85.86
M59	17280.14	11696.31	17299.61	11782.11	-19.47	-85.80