

APPENDIX "B" - 1990 WASDY FLOW DATA

WATER SYSTEM

EXAMPLE WADSY RUN

**1995 MAX DAY CONDITIONS
WITH FIRE FLOWS ADDED**

RECOMMENDED CIP IMPROVEMENTS

DATA OUTPUT

Convergence:

13 Iterations

0.00022 Max. HGL Correction

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WATER DISTRIBUTION ANALYSIS FOR

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF0503

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF0503

M E T C A L F & E D D Y

E N G I N E E R S

SYSTEM 1995+IMP CONDITIONS FF0503 90/05/30 14:12:18

PUMPS	PIPES	TOTAL NODES	BOUNDARY NODES	CV'S	prv/psv
11	238	147	131	2	0

PUMP CURVE	11	FT	MGD
		114.000	1.009
		462.000	0.706
		504.000	0.431
		510.000	0.000

PUMP CURVE	1	FT	MGD
		260.000	1.729
		495.000	1.009
		685.000	0.000
PUMP CURVE	2	FT	MGD
		268.000	1.557
		416.000	0.937
		536.000	0.000
PUMP CURVE	3	FT	MGD
		286.000	2.220
		594.000	1.427
		825.000	0.000
PUMP CURVE	4	FT	MGD
		204.000	1.196
		468.000	0.807
		696.000	0.000
PUMP CURVE	6	FT	MGD
		320.000	1.557
		640.000	1.009
		880.000	0.000
PUMP CURVE	7	FT	MGD
		220.000	1.557
		440.000	1.009
		605.000	0.000
PUMP CURVE	8	FT	MGD
		221.000	1.196
		507.000	0.807
		754.000	0.000
PUMP CURVE	9	FT	MGD
		360.000	2.508
		708.000	1.744
		876.000	0.000

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF@503

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS
218	211	209	1300	8	100	0.01	0.00	0.00	0.05
220	213	211	1300	8	100	0.26	1.67	1.28	1.17
222	209	215	400	10	100	0.23	0.13	0.34	0.65
224	215	115	2000	8	100	0.01	0.00	0.00	0.03
226	215	217	900	10	100	0.14	0.11	0.13	0.38
228	211	219	1300	8	100	0.13	0.42	0.32	0.55
230	213	221	1300	6	100	0.08	0.66	0.51	0.59
232	119	217	1200	8	100	0.10	0.24	0.20	0.43
234	217	219	1300	8	100	0.08	0.17	0.13	0.34
236	221	219	1300	8	100	0.24	1.43	1.10	1.08
238	223	217	650	12	100	0.10	0.02	0.03	0.19
240	223	129	1300	6	100	0.01	0.01	0.01	0.07
242	231	221	1300	6	100	0.07	0.51	0.39	0.51
244	227	223	650	12	100	0.30	0.14	0.22	0.58
246	233	227	2000	6	100	0.05	0.52	0.26	0.41
248	225	135	600	14	100	0.25	0.04	0.07	0.36
250	225	135	600	6	100	0.03	0.04	0.07	0.21
252	229	225	700	14	100	0.40	0.13	0.18	0.58
254	253	229	2700	12	110	0.44	1.03	0.38	0.86
256	231	233	700	6	100	0.14	1.09	1.56	1.08
258	225	235	650	8	100	0.12	0.18	0.28	0.52
260	237	227	650	8	100	0.23	0.64	0.99	1.02
262	239	233	650	6	100	0.01	0.00	0.00	0.04
264	235	237	700	6	100	0.09	0.51	0.73	0.72
266	237	239	2000	6	100	0.02	0.12	0.06	0.19
268	241	235	650	8	100	0.01	0.00	0.01	0.06
270	243	237	650	8	100	0.20	0.50	0.77	0.89
272	245	239	650	6	100	0.11	0.68	1.05	0.88
274	141	241	600	8	100	0.09	0.09	0.16	0.38
276	241	243	700	8	100	0.02	0.01	0.01	0.10
278	245	243	2000	8	100	0.04	0.06	0.03	0.16
280	255	245	700	8	110	0.34	1.18	1.68	1.49
282	601	247	1300	8	100	0.01	0.00	0.00	0.04
288	251	211	1700	8	100	0.06	0.15	0.09	0.27
290	253	255	1300	10	130	0.14	0.11	0.08	0.40
292	729	255	700	10	130	0.08	0.02	0.03	0.23
294	313	253	1300	12	110	0.58	0.83	0.64	1.14
296	247	255	300	8	110	0.11	0.07	0.23	0.51
300	301	213	1300	8	100	0.56	6.75	5.19	2.49
302	401	305	1300	8	100	0.17	0.75	0.57	0.76
304	301	307	1300	6	100	0.22	4.84	3.72	1.73
306	303	309	1300	8	100	0.14	0.51	0.40	0.62
308	311	305	1300	6	100	0.04	0.20	0.16	0.31
310	307	221	1300	8	100	0.33	2.57	1.97	1.48
312	309	307	1300	8	100	0.59	7.30	5.61	2.60
314	325	309	750	8	100	0.60	4.43	5.90	2.67
316	325	311	550	8	100	0.64	3.66	6.66	2.85
318	311	407	1300	8	100	0.10	0.28	0.21	0.44
320	307	313	1300	10	100	0.20	0.34	0.26	0.57
322	311	317	1300	6	100	0.20	4.05	3.11	1.58
324	313	231	1300	8	100	0.27	1.72	1.32	1.19
326	315	313	1300	10	100	0.46	1.57	1.21	1.30

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF0503

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS		
1	1	325			PUMP 1	1.25	-417.98			PS, PD	-260.00 157.98
2	2	327			PUMP 2	0.86	-426.39			PS, PD	-270.00 156.39
3	3	647			PUMP 3	1.82	-442.94			PS, PD	-262.00 179.94
4	4	727			PUMP 4	0.84	-447.92			PS, PD	-257.00 189.92
6	6	421			PUMP 6	1.04	-624.24			PS, PD	-508.00 116.24
7	7	733			PUMP 7	0.93	-452.64			PS, PD	-244.00 208.64
8	8	733			PUMP 8	0.90	-435.64			PS, PD	-227.00 208.64
9	9	423			PUMP 9	2.17	-513.61			PS, PD	-375.00 138.61
11	11	727			PUMP 11	0.73	-437.92			PS, PD	-247.00 189.92
100	101	105	1200	8	100	0.50	4.99	4.16	2.21		
102	101	103	900	8	100	0.48	3.49	3.88	2.13		
104	105	147	1300	8	110	0.17	0.64	0.49	0.77		
106	107	109	400	10	100	0.38	0.34	0.86	1.09		
108	109	201	1260	10	100	0.25	0.50	0.40	0.72		
110	107	111	1300	10	100	0.21	0.37	0.28	0.60		
112	109	113	1400	8	100	0.08	0.20	0.14	0.36		
114	111	113	700	8	100	0.11	0.18	0.25	0.49		
116	113	205	900	8	100	0.14	0.37	0.41	0.63		
118	111	117	1300	10	100	0.05	0.03	0.02	0.15		
120	119	115	1400	8	100	0.06	0.13	0.09	0.28		
122	117	123	1000	8	100	0.00	0.00	0.00	0.01		
124	117	119	1400	10	100	0.32	0.85	0.61	0.90		
126	123	121	1000	8	100	0.01	0.00	0.00	0.05		
128	125	121	500	8	100	0.01	0.00	0.00	0.05		
130	127	125	1000	8	100	0.04	0.03	0.03	0.16		
132	127	123	500	8	100	0.05	0.03	0.06	0.22		
134	133	117	1300	6	100	0.05	0.33	0.25	0.40		
136	119	129	650	6	100	0.06	0.23	0.36	0.49		
138	133	227	2600	6	100	0.07	1.25	0.48	0.58		
140	131	133	2400	14	100	0.04	0.01	0.00	0.06		
142	135	133	1300	14	100	0.15	0.04	0.03	0.21		
144	137	131	1400	12	100	0.13	0.07	0.05	0.26		
146	139	137	2650	12	100	0.33	0.72	0.27	0.65		
148	139	141	1300	8	100	0.18	0.80	0.61	0.78		
150	135	141	1300	12	100	0.10	0.04	0.03	0.21		
152	141	801	700	8	100	0.09	0.13	0.18	0.41		
154	139	133	1300	12	100	0.51	0.79	0.61	1.01		
156	145	101			PUMP 7	1.03	-433.15			PS, PD	-220.00 213.15
158	143	117	750	12	130	0.33	0.12	0.16	0.64		
160	133	143	750	12	130	0.43	0.21	0.27	0.85		
164	143	127	600	8	130	0.11	0.09	0.15	0.48		
166	147	107	1300	10	130	0.61	1.61	1.24	1.72		
168	103	147	800	8	110	0.43	2.14	2.68	1.91		
200	105	203	3150	8	100	0.23	3.13	0.99	1.02		
202	201	203	940	10	100	0.07	0.03	0.03	0.19		
204	203	249	1000	10	100	0.14	0.14	0.14	0.41		
206	249	251	900	10	100	0.10	0.07	0.07	0.29		
208	201	205	1400	8	100	0.04	0.06	0.05	0.19		
210	201	207	1500	8	100	0.09	0.29	0.19	0.42		
212	205	207	800	8	100	0.12	0.22	0.28	0.51		
214	207	209	200	8	100	0.16	0.10	0.51	0.71		
216	203	209	1300	8	100	0.11	0.36	0.27	0.51		

JOB NEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF#503

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS
606	323	609	1300	6	100	0.11	1.26	0.97	0.84
608	703	605	1300	8	100	0.08	0.17	0.13	0.34
610	605	607	1300	8	100	0.14	0.49	0.38	0.61
612	607	609	1320	8	100	0.22	1.21	0.92	0.98
614	609	501	1300	8	100	0.36	3.00	2.31	1.61
616	611	605	1300	6	100	0.26	6.59	5.07	2.05
618	615	607	1300	6	100	0.27	7.20	5.54	2.15
620	617	609	1300	6	100	0.25	6.14	4.72	1.97
622	711	611	1300	10	100	0.15	0.20	0.15	0.42
624	613	611	550	10	100	0.18	0.12	0.21	0.51
626	615	613	750	10	100	0.02	0.00	0.00	0.05
628	615	617	1320	10	100	0.56	2.27	1.72	1.58
630	617	505	1300	6	100	0.28	7.42	5.70	2.18
632	619	611	650	6	100	0.14	1.00	1.53	1.07
634	621	613	900	8	100	0.18	0.57	0.64	0.80
636	623	615	650	12	100	0.86	1.04	1.59	1.70
638	623	615	650	6	100	0.14	1.04	1.59	1.10
640	629	617	1300	6	100	0.10	1.19	0.92	0.81
642	625	619	650	6	100	0.25	2.97	4.56	1.94
644	627	623	650	12	100	1.11	1.64	2.53	2.18
646	721	625	1300	6	100	0.16	2.70	2.08	1.27
648	625	627	1300	6	100	0.10	1.16	0.90	0.80
650	627	629	1320	6	100	0.19	3.76	2.85	1.50
652	629	631	450	4	100	0.07	1.34	2.98	1.19
654	631	513	850	6	100	0.25	3.99	4.70	1.97
656	633	625	650	6	100	0.21	2.25	3.46	1.67
658	635	627	650	12	100	1.26	2.08	3.20	2.48
660	637	629	450	8	100	0.09	0.08	0.18	0.41
662	637	631	900	8	100	0.30	1.42	1.58	1.31
664	647	633	650	8	100	0.59	3.73	5.74	2.63
666	639	635	650	12	100	1.09	1.60	2.47	2.15
668	641	637	850	8	100	0.50	3.57	4.20	2.22
670	647	727	1300	12	100	0.07	0.02	0.02	0.14
672	647	639	1300	12	100	1.14	3.46	2.66	2.24
674	639	641	1320	12	100	1.19	3.79	2.87	2.33
676	641	515	1300	6	100	0.24	5.51	4.24	1.86
678	639	643	1300	12	100	0.85	2.02	1.55	1.67
680	641	645	1300	12	100	0.29	0.27	0.21	0.57
682	643	645	1320	12	100	0.85	2.05	1.55	1.67
684	645	517	1300	12	100	0.99	2.69	2.07	1.95
686	645	517	1300	6	100	0.16	2.69	2.07	1.26
688	15	1115	3000	12	100	0.42	1.28	0.43	0.83
690	633	635	1300	8	100	0.23	1.33	1.03	1.04
692	641	645	1300	6	100	0.05	0.27	0.21	0.37
694	619	621	300	6	100	0.11	0.31	1.02	0.86
696	623	621	1000	6	100	0.07	0.46	0.46	0.56
698	15	1115	3000	18	130	1.60	1.28	0.43	1.40
700	701	243	1300	8	100	0.23	1.29	0.99	1.02
702	703	701	2650	8	100	0.10	0.56	0.21	0.44
704	703	729	650	8	100	0.22	0.59	0.90	0.97
706	707	701	1300	6	100	0.31	9.36	7.20	2.48
708	711	703	1300	8	100	0.56	6.61	5.09	2.46

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF#503

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS
328	317	315	1320	10	100	0.62	2.78	2.10	1.76
330	317	315	1320	6	100	0.16	2.78	2.10	1.27
332	411	317	1300	12	100	0.97	2.56	1.97	1.91
334	327	313	650	10	100	0.35	0.47	0.72	0.99
336	327	319	650	10	100	0.51	0.94	1.45	1.44
338	319	247	1000	8	100	0.14	0.40	0.40	0.63
340	319	321	1300	8	100	0.14	0.49	0.38	0.61
342	315	321	1300	6	100	0.16	2.53	1.95	1.22
344	317	323	1300	6	100	0.23	5.30	4.07	1.82
346	323	321	1320	8	100	0.02	0.01	0.01	0.09
348	415	323	1300	8	100	0.15	0.56	0.43	0.65
350	319	603	650	8	100	0.12	0.19	0.30	0.53
352	23	303 CV	1200	8	110	0.94	13.46	11.21	4.15 Open
354	305	303	1300	10	130	0.09	0.04	0.03	0.25
356	303	301	1300	10	130	0.84	2.97	2.29	2.39
400	403	401	1300	14	100	1.08	1.48	1.14	1.56
402	419	403	2700	14	100	1.48	5.52	2.04	2.14
404	401	407	1300	14	100	0.78	0.82	0.63	1.13
406	403	409	1300	10	100	0.35	0.96	0.74	1.00
408	409	407	1300	6	100	0.11	1.34	1.03	0.87
410	407	411	1300	14	100	0.97	1.21	0.93	1.40
412	409	413	1300	6	100	0.12	1.59	1.22	0.95
414	413	411	1300	8	100	0.20	0.96	0.74	0.87
416	411	415	1300	12	100	1.70	7.30	5.61	3.35
418	413	417	1300	6	100	0.40	14.52	11.17	3.14
420	415	417	1300	8	100	0.54	6.26	4.82	2.39
422	421	405	8600	12	100	1.04	19.24	2.24	2.04
424	423	405	750	12	100	2.17	6.60	8.80	4.27
426	405	16	600	30	100	0.76	0.01	0.01	0.24
428	18	419 CV	2800	8	110	1.15	46.12	16.47	5.11 Open
430	405	419	1200	14	100	0.33	0.15	0.12	0.47
432	405	409	5200	16	130	2.12	6.63	1.27	2.35
434	409	413	1300	16	130	2.07	1.59	1.22	2.29
436	413	411	1300	16	130	1.58	0.96	0.74	1.75
500	415	501	1300	10	100	0.84	4.83	3.71	2.39
502	417	503	1300	6	100	0.84	58.07	44.67	6.64
504	501	503	1300	8	100	1.82	59.50	45.77	8.06
506	505	501	1300	12	100	0.78	1.72	1.33	1.54
508	507	503	1300	6	100	0.71	41.93	32.26	5.57
510	505	507	1300	6	100	0.46	19.29	14.84	3.66
512	513	505	1300	12	100	1.10	3.27	2.52	2.17
514	511	507	1300	6	100	0.33	9.96	7.66	2.56
516	509	511	1300	6	100	0.33	9.96	7.66	2.56
518	513	509	200	6	100	0.44	2.65	13.26	3.44
520	515	513	1300	12	100	1.14	3.47	2.67	2.24
522	515	513	1300	6	100	0.18	3.47	2.67	1.45
524	517	515	1300	12	100	0.96	2.55	1.96	1.90
526	517	515	1300	6	100	0.16	2.55	1.96	1.23
528	509	505	1100	6	100	0.08	0.62	0.56	0.63
600	603	601	300	6	100	0.09	0.21	0.70	0.70
602	605	603	650	8	100	0.11	0.16	0.24	0.47
604	321	607	1300	6	100	0.02	0.04	0.03	0.13

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF0503

NODE NO	COORDINATES			GRADIENT RESULTS			BOUNDARY SPEC		Q(MGD)	TYPE		
	X(FT)	Y(FT)	Z(FT)	HG(FT)	P(FT)	P(PSI)						
1	162	175	1595	1335.00	-260.00	-112.55	-1.25	BEL	Pump S			
2	136	152	1585	1315.00	-270.00	-116.88	-0.86	BEL	Pump S			
3	137	73	1576	1314.00	-262.00	-113.42	-1.82	BEL	Pump S			
4	120	73	1566	1309.00	-257.00	-111.26	-0.84	BEL	Pump S			
6	286	218	1660	1152.00	-508.00	-219.91	-1.04	BEL	Pump S			
7	78	73	1548	1304.00	-244.00	-105.63	-0.93	BEL	Pump S			
8	77	74	1548	1321.00	-227.00	-98.27	-0.90	BEL	Pump S			
9	251	198	1625	1250.00	-375.00	-162.34	-2.17	BEL	Pump S			
11	116	75	1566	1319.00	-247.00	-106.93	-0.73	BEL	Pump S			
15	184	12	1737	1757.00	20.00	8.66	-2.02	BEL				
16	256	196	1738	1757.00	19.00	8.23	0.76	BEL				
18	234	208	1640	1802.98	162.98	70.56	-1.15	BQ	CV Open		-1.15	0.0
23	157	210	1580	1762.52	182.52	79.01	-0.94	BQ	CV Open		-0.94	0.0
101	61	241	1533	1746.15	213.15	92.27	0.05	BQ	Pump D		0.05	0.0
103	54	235	1532	1742.66	210.66	91.19	0.05	BQ			0.05	0.0
105	67	226	1537	1741.16	204.16	88.38	0.10	BQ			0.10	0.0
107	53	211	1537	1738.91	201.91	87.41	0.01	BQ			0.01	0.0
109	58	211	1540	1738.57	198.57	85.96	0.05	BQ			0.05	0.0
111	53	195	1538	1738.54	200.54	86.81	0.05	BQ			0.05	0.0
113	61	195	1540	1738.36	198.36	85.87	0.05	BQ			0.05	0.0
115	65	188	1545	1737.54	192.54	83.35	0.07	BQ			0.07	0.0
117	53	177	1541	1738.51	197.51	85.50	0.11	BQ			0.11	0.0
119	69	177	1550	1737.66	187.66	81.24	0.10	BQ			0.10	0.0
121	29	175	1530	1738.51	208.51	90.26	0.02	BQ			0.02	0.0
123	42	175	1536	1738.51	202.51	87.67	0.04	BQ			0.04	0.0
125	29	169	1530	1738.51	208.51	90.26	0.02	BQ			0.02	0.0
127	42	169	1536	1738.54	202.54	87.68	0.02	BQ			0.02	0.0
129	69	169	1550	1737.43	187.43	81.14	0.07	BQ			0.07	0.0
131	23	161	1526	1738.85	212.85	92.14	0.10	BQ			0.10	0.0
133	53	161	1539	1738.84	199.84	86.51	0.14	BQ			0.14	0.0
135	69	160	1547	1738.88	191.88	83.06	0.02	BQ			0.02	0.0
137	19	145	1523	1738.92	215.92	93.47	0.20	BQ			0.20	0.0
139	53	145	1535	1739.63	204.63	88.59	0.13	BQ			0.13	0.0
141	69	145	1543	1738.84	195.84	84.78	0.10	BQ			0.10	0.0
143	50	169	1537	1738.63	201.63	87.29						0.0
145	61	241	1533	1313.00	-220.00	-95.24	-1.03	BEL	Pump S			
147	53	226	1534	1740.52	206.52	89.40						0.0
201	74	210	1545	1738.06	193.06	83.58	0.05	BQ			0.05	0.0
203	86	210	1549	1738.03	189.03	81.83	0.04	BQ			0.04	0.0
205	70	195	1543	1738.00	195.00	84.41	0.07	BQ			0.07	0.0
207	80	195	1548	1737.78	189.78	82.15	0.05	BQ			0.05	0.0
209	86	194	1553	1737.67	184.67	79.95	0.06	BQ			0.06	0.0
211	102	193	1550	1737.68	187.68	81.25	0.19	BQ			0.19	0.0
213	119	193	1567	1739.35	172.35	74.61	0.22	BQ			0.22	0.0
215	86	188	1554	1737.54	183.54	79.45	0.09	BQ			0.09	0.0
217	86	177	1558	1737.43	179.43	77.67	0.25	BQ			0.25	0.0
219	102	177	1563	1737.26	174.26	75.44	0.44	BQ			0.44	0.0
221	119	177	1572	1738.69	166.69	72.16	0.23	BQ			0.23	0.0
223	86	169	1558	1737.44	179.44	77.68	0.19	BQ			0.19	0.0
225	77	160	1553	1738.92	185.92	80.49	0.01	BQ			0.01	0.0
227	86	161	1558	1737.59	179.59	77.74	0.06	BQ			0.06	0.0
229	87	159	1558	1739.05	181.05	78.38	0.04	BQ			0.04	0.0

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF#503

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS
710	705	707	600	8	100	0.52	2.66	4.43	2.28
712	707	709	1325	8	100	0.12	0.39	0.29	0.53
714	709	711	1325	8	100	0.27	1.80	1.36	1.21
716	713	705	500	8	100	0.56	2.62	5.23	2.50
718	717	707	1300	8	100	0.06	0.10	0.07	0.25
720	717	709	2100	6	100	0.05	0.48	0.23	0.39
722	719	709	1000	6	100	0.18	2.51	2.51	1.40
724	719	711	2400	6	100	0.15	4.31	1.80	1.17
726	721	711	1300	8	100	0.55	6.47	4.97	2.43
728	713	715	1000	8	100	0.23	1.02	1.02	1.03
730	713	731	1000	8	100	0.09	0.19	0.19	0.42
732	733	705	2600	6	100	0.15	4.60	1.77	1.16
734	723	717	1400	6	100	0.21	4.61	3.29	1.62
736	725	719	1400	6	100	0.17	3.12	2.23	1.31
738	721	719	1400	8	100	0.29	2.15	1.54	1.29
740	727	721	1300	12	100	1.10	3.26	2.51	2.17
742	733	723	600	6	100	0.24	2.55	4.26	1.87
744	725	723	1200	6	100	0.07	0.53	0.45	0.55
746	727	725	1600	8	100	0.28	2.30	1.44	1.24
750	601	729	1000	6	100	0.02	0.05	0.05	0.17
752	733	731	1400	8	100	0.29	2.18	1.56	1.30
754	731	715	500	8	100	0.30	0.83	1.65	1.34
756	727	733	3400	12	130	0.22	0.28	0.08	0.44
758	735	713			PUMP 7	1.02	-434.65		
800	803	139	1800	12	100	1.15	4.91	2.73	2.27
802	805	807	1300	12	100	1.16	3.60	2.77	2.29
804	715	807	1400	8	100	0.45	4.82	3.44	1.99
806	733	805	1800	12	130	1.38	4.23	2.35	2.72
808	807	803	1800	12	130	1.39	4.28	2.38	2.74
1698	1115	639	3400	18	130	2.02	2.24	0.66	1.77

PS, PD -225.00 209.65

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FFQ503

NODE NO	COORDINATES			GRADIENT RESULTS			BOUNDARY SPEC		Q(MGD)	TYPE
	X(FT)	Y(FT)	Z(FT)	HG(FT)	P(FT)	P(PST)	Q(MGD)	TYPE		
609	169	127	1608	1738.71	130.71	56.58	0.21	BQ	0.21	0.0
611	136	111	1582	1747.00	165.00	71.43	0.21	BQ	0.21	0.0
613	140	111	1586	1747.11	161.11	69.75	0.02	BQ	0.02	0.0
615	153	111	1594	1747.12	153.12	66.28	0.15	BQ	0.15	0.0
617	169	111	1606	1744.84	138.84	60.11	0.13	BQ	0.13	0.0
619	136	102	1582	1747.99	165.99	71.86				0.0
621	140	102	1583	1747.69	164.69	71.29				0.0
623	153	102	1593	1748.15	155.15	67.17	0.03	BQ	0.03	0.0
625	136	95	1581	1750.96	169.96	73.58	0.02	BQ	0.02	0.0
627	153	95	1592	1749.80	157.80	68.31	0.06	BQ	0.06	0.0
629	169	95	1603	1746.03	143.03	61.92	0.11	BQ	0.11	0.0
631	176	95	1606	1744.69	138.69	60.04	0.11	BQ	0.11	0.0
633	136	86	1579	1753.21	174.21	75.42	0.15	BQ	0.15	0.0
635	153	86	1591	1751.88	160.88	69.64	0.07	BQ	0.07	0.0
637	169	86	1602	1746.12	144.12	62.39	0.11	BQ	0.11	0.0
639	153	78	1589	1753.48	164.48	71.20	0.03	BQ	0.03	0.0
641	169	78	1601	1749.69	148.69	64.37	0.11	BQ	0.11	0.0
643	153	61	1588	1751.46	163.46	70.76				0.0
645	169	61	1602	1749.41	147.41	63.82	0.03	BQ	0.03	0.0
647	136	78	1577	1756.94	179.94	77.90	0.01	BQ	0.01	0.0
701	86	127	1551	1740.02	189.02	81.83	0.18	BQ	0.18	0.0
703	119	127	1572	1740.58	168.58	72.98	0.16	BQ	0.16	0.0
705	78	111	1546	1752.04	206.04	89.19	0.20	BQ	0.20	0.0
707	86	111	1550	1749.38	199.38	86.31	0.14	BQ	0.14	0.0
709	103	111	1559	1748.99	189.99	82.25	0.07	BQ	0.07	0.0
711	119	111	1571	1747.19	176.19	76.27	0.26	BQ	0.26	0.0
713	74	106	1545	1754.65	209.65	90.76	0.13	BQ	0.13	0.0
715	71	97	1543	1753.64	210.64	91.18	0.09	BQ	0.09	0.0
717	86	95	1550	1749.48	199.48	86.35	0.10	BQ	0.10	0.0
719	103	96	1558	1751.51	193.51	83.77	0.13	BQ	0.13	0.0
721	119	94	1572	1753.66	181.66	78.64	0.10	BQ	0.10	0.0
723	85	77	1550	1754.09	204.09	88.35	0.10	BQ	0.10	0.0
725	100	77	1558	1754.62	196.62	85.12	0.04	BQ	0.04	0.0
727	119	77	1567	1756.92	189.92	82.22	0.03	BQ	0.03	0.0
729	119	135	1572	1739.99	167.99	72.72	0.16	BQ	0.16	0.0
731	78	95	1545	1754.46	209.46	90.68	0.09	BQ	0.09	0.0
733	78	77	1548	1756.64	208.64	90.32				0.0
735	74	106	1545	1320.00	-225.00	-97.40	-1.02	BEL		
801	69	133	1541	1738.71	197.71	85.59	0.09	BQ	0.09	0.0
803	53	121	1534	1744.54	210.54	91.14	0.24	BQ	0.24	0.0
805	53	79	1533	1752.41	219.41	94.98	0.22	BQ	0.22	0.0
807	53	97	1533	1748.82	215.82	93.43	0.22	BQ	0.22	0.0
1115	165	45	1663	1755.72	92.72	40.14				0.0

TOTAL SYSTEM Q = 16.68 Total BQ (pos) = 12.55 Total BQ (neg) = -2.09 0.00 0.00

JOB HEMET CALIF 1995 IMPROVED SYSTEM AT MAXDAY + FIRE FLOW 1995+IMP FF#503

NODE NO	COORDINATES			GRADIENT RESULTS			BOUNDARY SPEC		Q(NGD)	TYPE
	X(FT)	Y(FT)	Z(FT)	HG(FT)	P(FT)	P(PST)	Q(NGD)	TYPE		
231	119	161	1578	1739.20	161.20	69.78	0.07	BQ	0.07	0.0
233	111	162	1574	1738.11	164.11	71.04	0.09	BQ	0.09	0.0
235	77	152	1550	1738.74	188.74	81.71	0.04	BQ	0.04	0.0
237	87	152	1555	1738.23	183.23	79.32	0.04	BQ	0.04	0.0
239	111	152	1570	1738.11	168.11	72.78	0.13	BQ	0.13	0.0
241	77	144	1549	1738.74	189.74	82.14	0.05	BQ	0.05	0.0
243	87	144	1553	1738.73	185.73	80.40	0.09	BQ	0.09	0.0
245	111	144	1568	1738.79	170.79	73.94	0.19	BQ	0.19	0.0
247	123	144	1573	1740.04	167.04	72.31	0.04	BQ	0.04	0.0
249	99	210	1557	1737.89	180.89	78.31	0.04	BQ	0.04	0.0
251	108	210	1559	1737.82	178.82	77.41	0.04	BQ	0.04	0.0
253	120	160	1578	1740.08	162.08	70.17				0.0
255	120	144	1573	1739.97	166.97	72.28				0.0
301	136	193	1575	1746.09	171.09	74.07	0.06	BQ	0.06	0.0
303	152	193	1583	1749.06	166.06	71.89	0.04	BQ	0.04	0.0
305	169	193	1593	1749.11	156.11	67.58	0.12	BQ	0.12	0.0
307	136	177	1579	1741.25	162.25	70.24	0.27	BQ	0.27	0.0
309	152	177	1588	1748.55	160.55	69.50	0.16	BQ	0.16	0.0
311	169	177	1598	1749.31	151.31	65.50	0.30	BQ	0.30	0.0
313	136	160	1586	1740.92	154.92	67.06	0.16	BQ	0.16	0.0
315	153	160	1593	1742.49	149.49	64.71	0.17	BQ	0.17	0.0
317	169	160	1600	1745.26	145.26	62.88	0.15	BQ	0.15	0.0
319	136	145	1584	1740.45	156.45	67.73	0.11	BQ	0.11	0.0
321	153	145	1595	1739.95	144.95	62.75	0.30	BQ	0.30	0.0
323	169	145	1606	1739.97	133.97	57.99	0.25	BQ	0.25	0.0
325	162	177	1595	1752.98	157.98	68.39				0.0
327	136	152	1585	1741.39	156.39	67.70				0.0
401	186	193	1614	1749.86	135.86	58.81	0.13	BQ	0.13	0.0
403	204	193	1613	1751.34	138.34	59.89	0.05	BQ	0.05	0.0
405	253	193	1670	1757.01	87.01	37.67				0.0
407	186	177	1619	1749.04	130.04	56.29	0.03	BQ	0.03	0.0
409	204	177	1618	1750.38	132.38	57.31	0.17	BQ	0.17	0.0
411	186	160	1611	1747.83	136.83	59.23	0.07	BQ	0.07	0.0
413	204	160	1622	1748.79	126.79	54.89	0.02	BQ	0.02	0.0
415	186	145	1617	1740.53	123.53	53.48	0.17	BQ	0.17	0.0
417	204	145	1629	1734.27	105.27	45.57	0.10	BQ	0.10	0.0
419	234	193	1635	1756.86	121.86	52.75				0.0
421	288	220	1660	1776.24	116.24	50.32				0.0
423	250	198	1625	1763.61	138.61	60.00				0.0
501	186	127	1619	1735.70	116.70	50.52	0.17	BQ	0.17	0.0
503	204	127	1630	1676.20	46.20	20.00	3.37	BH		0.0
505	186	111	1618	1737.43	119.43	51.70	0.22	BQ	0.22	0.0
507	204	111	1628	1718.13	90.13	39.02	0.08	BQ	0.08	0.0
509	184	98	1614	1738.05	124.05	53.70	0.03	BQ	0.03	0.0
511	204	98	1616	1728.09	112.09	48.52				0.0
513	186	95	1613	1740.70	127.70	55.28	0.03	BQ	0.03	0.0
515	186	78	1615	1744.17	129.17	55.92	0.03	BQ	0.03	0.0
517	186	61	1607	1746.72	139.72	60.49	0.03	BQ	0.03	0.0
601	131	135	1580	1740.04	160.04	69.28	0.06	BQ	0.06	0.0
603	136	135	1584	1740.25	156.25	67.64	0.14	BQ	0.14	0.0
605	136	127	1583	1740.41	157.41	68.14	0.09	BQ	0.09	0.0
607	153	127	1595	1739.92	144.92	62.73	0.21	BQ	0.21	0.0

DATA INPUT FOR
1995 WADSY MODEL

MAX DAY
FIRE FLOW
SYSTEM IMPROVEMENTS

INCLUDE H90PIP

LINE 100 101 105 1200 8 100
LINE 102 101 103 900 8 100
LINE 104 103 105 1500 8 100
LINE 106 107 109 400 10 100
LINE 108 109 201 1260 10 100
LINE 110 107 111 1300 10 100
LINE 112 109 113 1400 8 100
LINE 114 111 113 700 8 100
LINE 116 113 205 900 8 100
LINE 118 111 117 1300 10 100
LINE 120 115 119 1400 8 100
LINE 122 117 123 1000 8 100
LINE 124 117 119 1400 10 100
LINE 126 121 123 1000 8 100
LINE 128 121 125 500 8 100
LINE 130 125 127 1000 8 100
LINE 132 123 127 500 8 100
LINE 134 117 133 1300 6 100
LINE 136 119 129 650 6 100
LINE 138 133 227 2600 6 100
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LINE 142 133 135 1300 14 100
LINE 144 131 137 1400 12 100
LINE 146 137 139 2650 12 100
LINE 148 139 141 1300 8 100
LINE 150 135 141 1300 12 100
LINE 152 141 801 700 8 100
LINE 154 133 139 1300 12 100
LINE 200 105 203 3150 8 100
LINE 202 201 203 940 10 100
LINE 204 203 249 1000 10 100
LINE 206 249 251 900 10 100
LINE 208 201 205 1400 8 100
LINE 210 201 207 1500 8 100
LINE 212 205 207 800 8 100
LINE 214 207 209 200 8 100
LINE 216 203 209 1300 8 100
LINE 218 209 211 1300 8 100
LINE 220 211 213 1300 8 100
LINE 222 209 215 400 10 100
LINE 224 115 215 2000 8 100
LINE 226 215 217 900 10 100
LINE 228 211 219 1300 8 100
LINE 230 213 221 1300 6 100
LINE 232 119 217 1200 8 100
LINE 234 217 219 1300 8 100
LINE 236 219 221 1300 8 100
LINE 238 217 223 650 12 100
LINE 240 129 223 1300 6 100
LINE 242 221 231 1300 6 100
LINE 244 223 227 650 12 100
LINE 246 227 233 2000 6 100
LINE 248 135 225 600 14 100

LINE 250 135 225 600 6 100
LINE 252 225 229 700 14 100
LINE 254 229 313 4000 12 100
LINE 256 233 231 700 6 100
LINE 258 225 235 650 8 100
LINE 260 227 237 650 8 100
LINE 262 233 239 650 6 100
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LINE 266 237 239 2000 6 100
LINE 268 235 241 650 8 100
LINE 270 237 243 650 8 100
LINE 272 239 245 650 6 100
LINE 274 141 241 600 8 100
LINE 276 241 243 700 8 100
LINE 278 243 245 2000 8 100
LINE 280 245 247 1000 8 100
LINE 282 247 601 1300 8 100
LINE 288 251 211 1700 8 100
LINE 300 213 301 1300 8 100
LINE 302 305 401 1300 8 100
LINE 304 301 307 1300 6 100
LINE 306 303 309 1300 8 100
LINE 308 305 311 1300 6 100
LINE 310 221 307 1300 8 100
LINE 312 307 309 1300 8 100
LINE 314 309 325 750 8 100
LINE 316 325 311 550 8 100
LINE 318 311 407 1300 8 100
LINE 320 307 313 1300 10 100
LINE 322 311 317 1300 6 100
LINE 324 231 313 1300 8 100
LINE 326 313 315 1300 10 100
LINE 328 315 317 1320 10 100
LINE 330 315 317 1320 6 100
LINE 332 317 411 1300 12 100
LINE 334 313 327 650 10 100
LINE 336 327 319 650 10 100
LINE 338 247 319 1000 8 100
LINE 340 319 321 1300 8 100
LINE 342 315 321 1300 6 100
LINE 344 317 323 1300 6 100
LINE 346 321 323 1320 8 100
LINE 348 323 415 1300 8 100
LINE 350 319 603 650 8 100
LINE 400 401 403 1300 14 100
LINE 402 403 419 2700 14 100
LINE 404 401 407 1300 14 100
LINE 406 403 409 1300 10 100
LINE 408 407 409 1300 6 100
LINE 410 407 411 1300 14 100
LINE 412 409 413 1300 6 100
LINE 414 411 413 1300 8 100
LINE 416 411 415 1300 12 100
LINE 418 413 417 1300 6 100

LINE 420 415 417 1300 8 100
LINE 422 421 405 8600 12 100
LINE 424 423 405 750 12 100
LINE 426 16 405 600 30 100
LINE 430 419 405 1200 14 100
LINE 500 415 501 1300 10 100
LINE 502 417 503 1300 6 100
LINE 504 501 503 1300 8 100
LINE 506 501 505 1300 12 100
LINE 508 503 507 1300 6 100
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LINE 600 601 603 300 6 100
LINE 602 603 605 650 8 100
LINE 604 321 607 1300 6 100
LINE 606 323 609 1300 6 100
LINE 608 703 605 1300 8 100
LINE 610 605 607 1300 8 100
LINE 612 607 609 1320 8 100
LINE 614 609 501 1300 8 100
LINE 616 605 611 1300 6 100
LINE 618 607 615 1300 6 100
LINE 620 609 617 1300 6 100
LINE 622 711 611 1300 10 100
LINE 624 611 613 550 10 100
LINE 626 613 615 750 10 100
LINE 628 615 617 1320 10 100
LINE 630 617 505 1300 6 100
LINE 632 611 619 650 6 100
LINE 634 613 621 900 8 100
LINE 636 615 623 650 12 100
LINE 638 615 623 650 6 100
LINE 640 617 629 1300 6 100
LINE 642 619 625 650 6 100
LINE 644 623 627 650 12 100
LINE 646 721 625 1300 6 100
LINE 648 625 627 1300 6 100
LINE 650 627 629 1320 6 100
LINE 652 629 631 450 4 100
LINE 654 631 513 850 6 100
LINE 656 625 633 650 6 100
LINE 658 627 635 650 12 100
LINE 660 629 637 450 8 100
LINE 662 631 637 900 8 100
LINE 664 633 647 650 8 100
LINE 666 635 639 650 12 100

LINE 668 637 641 850 8 100
 LINE 670 727 647 1300 12 100
 LINE 672 647 639 1300 12 100
 LINE 674 639 641 1320 12 100
 LINE 676 641 515 1300 6 100
 LINE 678 639 643 1300 12 100
 LINE 680 641 645 1300 12 100
 LINE 682 643 645 1320 12 100
 LINE 684 645 517 1300 12 100
 LINE 686 645 517 1300 6 100
 LINE 688 15 643 6100 12 100
 LINE 690 633 635 1300 8 100
 LINE 692 641 645 1300 6 100
 LINE 694 619 621 300 6 100
 LINE 696 621 623 1000 6 100
 LINE 700 243 701 1300 8 100
 LINE 702 701 703 2650 8 100
 LINE 704 729 703 650 8 100
 LINE 706 701 707 1300 6 100
 LINE 708 703 711 1300 8 100
 LINE 710 705 707 600 8 100
 LINE 712 707 709 1325 8 100
 LINE 714 709 711 1325 8 100
 LINE 716 705 713 500 8 100
 LINE 718 707 717 1300 8 100
 LINE 720 709 717 2100 6 100
 LINE 722 709 719 1000 6 100
 LINE 724 719 711 2400 6 100
 LINE 726 711 721 1300 8 100
 LINE 728 713 715 1000 8 100
 LINE 730 713 731 1000 8 100
 LINE 732 705 733 2600 6 100
 LINE 734 717 723 1400 6 100
 LINE 736 719 725 1400 6 100
 LINE 738 719 721 1400 8 100
 LINE 740 721 727 1300 12 100
 LINE 742 733 723 600 6 100
 LINE 744 723 725 1200 6 100
 LINE 746 725 727 1600 8 100
 LINE 750 729 601 1000 6 100
 LINE 752 733 731 1400 8 100
 LINE 754 715 731 500 8 100
 LINE 800 139 803 1800 12 100
 LINE 802 805 807 1300 12 100
 LINE 804 807 715 1400 8 100
 LINE 808 803 807 1800 12 130

End of File: H90PIP

INCLUDE H90XYZ

NXYZ	1	162	175	1595
NXYZ	2	136	152	1585
NXYZ	3	137	73	1576
NXYZ	4	120	73	1566
NXYZ	6	286	218	1660
NXYZ	7	78	73	1548
NXYZ	8	77	74	1548

NXYZ	9	251	198	1625
NXYZ	11	116	75	1566
NXYZ	15	184	12	1737
NXYZ	16	256	196	1738
NXYZ	18	234	208	1640
NXYZ	23	157	210	1580
NXYZ	101	61	241	1533
NXYZ	103	54	235	1532
NXYZ	105	67	226	1537
NXYZ	107	53	211	1537
NXYZ	109	58	211	1540
NXYZ	111	53	195	1538
NXYZ	113	61	195	1540
NXYZ	115	65	188	1545
NXYZ	117	53	177	1541
NXYZ	119	69	177	1550
NXYZ	121	29	175	1530
NXYZ	123	42	175	1536
NXYZ	125	29	169	1530
NXYZ	127	42	169	1536
NXYZ	129	69	169	1550
NXYZ	131	23	161	1526
NXYZ	133	53	161	1539
NXYZ	135	69	160	1547
NXYZ	137	19	145	1523
NXYZ	139	53	145	1535
NXYZ	141	69	145	1543
NXYZ	143	50	169	1537
NXYZ	145	61	241	1533
NXYZ	147	53	226	1534
NXYZ	201	74	210	1545
NXYZ	203	86	210	1549
NXYZ	205	70	195	1543
NXYZ	207	80	195	1548
NXYZ	209	86	194	1553
NXYZ	211	102	193	1550
NXYZ	213	119	193	1567
NXYZ	215	86	188	1554
NXYZ	217	86	177	1558
NXYZ	219	102	177	1563
NXYZ	221	119	177	1572
NXYZ	223	86	169	1558
NXYZ	225	77	160	1553
NXYZ	227	86	161	1558
NXYZ	229	87	159	1558
NXYZ	231	119	161	1578
NXYZ	233	111	162	1574
NXYZ	235	77	152	1550
NXYZ	237	87	152	1555
NXYZ	239	111	152	1570
NXYZ	241	77	144	1549
NXYZ	243	87	144	1553
NXYZ	245	111	144	1568
NXYZ	247	123	144	1573

NXYZ	249	99	210	1557
NXYZ	251	108	210	1559
NXYZ	253	120	160	1578
NXYZ	255	120	144	1573
NXYZ	301	136	193	1575
NXYZ	303	152	193	1583
NXYZ	305	169	193	1593
NXYZ	307	136	177	1579
NXYZ	309	152	177	1588
NXYZ	311	169	177	1598
NXYZ	313	136	160	1586
NXYZ	315	153	160	1593
NXYZ	317	169	160	1600
NXYZ	319	136	145	1584
NXYZ	321	153	145	1595
NXYZ	323	169	145	1606
NXYZ	325	162	177	1595
NXYZ	327	136	152	1585
NXYZ	401	186	193	1614
NXYZ	403	204	193	1613
NXYZ	405	253	193	1670
NXYZ	407	186	177	1619
NXYZ	409	204	177	1618
NXYZ	411	186	160	1611
NXYZ	413	204	160	1622
NXYZ	415	186	145	1617
NXYZ	417	204	145	1629
NXYZ	419	234	193	1635
NXYZ	421	288	220	1660
NXYZ	423	250	198	1625
NXYZ	501	186	127	1619
NXYZ	503	204	127	1630
NXYZ	505	186	111	1618
NXYZ	507	204	111	1628
NXYZ	509	184	98	1614
NXYZ	511	204	98	1616
NXYZ	513	186	95	1613
NXYZ	515	186	78	1615
NXYZ	517	186	61	1607
NXYZ	601	131	135	1580
NXYZ	603	136	135	1584
NXYZ	605	136	127	1583
NXYZ	607	153	127	1595
NXYZ	609	169	127	1608
NXYZ	611	136	111	1582
NXYZ	613	140	111	1586
NXYZ	615	153	111	1594
NXYZ	617	169	111	1606
NXYZ	619	136	102	1582
NXYZ	621	140	102	1583
NXYZ	623	153	102	1593
NXYZ	625	136	95	1581
NXYZ	627	153	95	1592
NXYZ	629	169	95	1603

```

-----
NXYZ 631 176 95 1606
NXYZ 633 136 86 1579
NXYZ 635 153 86 1591
NXYZ 637 169 86 1602
NXYZ 639 153 78 1589
NXYZ 641 169 78 1601
NXYZ 643 153 61 1588
NXYZ 645 169 61 1602
NXYZ 647 136 78 1577
NXYZ 701 86 127 1551
NXYZ 703 119 127 1572
NXYZ 705 78 111 1546
NXYZ 707 86 111 1550
NXYZ 709 103 111 1559
NXYZ 711 119 111 1571
NXYZ 713 74 106 1545
NXYZ 715 71 97 1543
NXYZ 717 86 95 1550
NXYZ 719 103 96 1558
NXYZ 721 119 94 1572
NXYZ 723 85 77 1550
NXYZ 725 100 77 1558
NXYZ 727 119 77 1567
NXYZ 729 119 135 1572
NXYZ 731 78 95 1545
NXYZ 733 78 77 1548
NXYZ 735 74 106 1545
NXYZ 801 69 133 1541
NXYZ 803 53 121 1534
NXYZ 805 53 79 1533
NXYZ 807 53 97 1533

```

End of File: H90XYZ

```

INCLUDE H90PMP
LINE 1 1 325 PUMP 1
LINE 2 2 327 PUMP 2
LINE 3 3 647 PUMP 3
LINE 4 4 727 PUMP 4
LINE 6 6 421 PUMP 6
LINE 7 7 733 PUMP 7
LINE 8 8 733 PUMP 8
LINE 9 9 423 PUMP 9
LINE 11 11 727 PUMP 11

```

```

* THE FOLLOWING ARE PUMP CURVES FOR ALL WELLS PUMPING INTO THE SYSTEM .ignored
* WELL # 1 .ignored
PUMP CURVE 1 FT GPM .ignored

```

```

260 1200
495 700
685 0

```

```

* WELL # 2 .ignored
PUMP CURVE 2 FT GPM

```

```

268 1080
416 650
536 0

```

```

-----
* WELL # 3 .ignored
PUMP CURVE 3 FT GPM
      286 1540
      594 990
      825 0
* WELL # 4 .ignored
PUMP CURVE 4 FT GPM
      204 830
      468 560
      696 0
* WELL # 5 NOT USED .ignored
* WELL # 6 .ignored
PUMP CURVE 6 FT GPM
      320 1080
      640 700
      880 0
* WELL # 7 .ignored
PUMP CURVE 7 FT GPM
      220 1080
      440 700
      605 0
* WELL # 8 .ignored
PUMP CURVE 8 FT GPM
      221 830
      507 560
      754 0
* WELL # 9 .ignored
PUMP CURVE 9 FT GPM
      360 1740
      708 1210
      876 0
* WELL # 10 NOT USED .ignored
* WELL # 11 .ignored
PUMP CURVE 11 FT GPM
      114 700
      462 490
      504 299
      510 0
* WELL # 23 NOT USED .ignored

```

End of File: H90PMP

```

INCLUDE H90HGL
! BEL'S FOR SUCTION SIDE OF PUMPS, HGL OF DRAWDOWN .ignored
BEL FT 1 1335
BEL FT 2 1315
BEL FT 3 1314
BEL FT 4 1309
BEL FT 6 1152
BEL FT 7 1304
BEL FT 8 1321
BEL FT 9 1250
BEL FT 11 1319

```

End of File: H90HGL

```

BEL 15 1757 16 1757
INCLUDE H95BQ
* THE FOLLOWING DEMANDS AT NODES WERE CALCULATED BY APPROXIMATE AREA T .ignored
* NODE FROM THE ZONING ID NUMBERS .ignored
* 1995 DEMANDS * .ignored

```

BQ GPM 101 13.22
BQ GPM 103 13.22
BQ GPM 105 26.45
BQ GPM 107 3.30
BQ GPM 109 13.58
BQ GPM 111 13.58
BQ GPM 113 13.58
BQ GPM 115 19.41
BQ GPM 117 30.54
BQ GPM 119 26.58
BQ GPM 121 6.38
BQ GPM 123 11.37
BQ GPM 125 6.38
BQ GPM 127 6.38
BQ GPM 129 19.79
BQ GPM 131 26.65
BQ GPM 133 39.28
BQ GPM 135 5.62
BQ GPM 137 54.60
BQ GPM 139 36.34
BQ GPM 141 29.03
BQ GPM 201 13.58
BQ GPM 203 10.67
BQ GPM 205 19.41
BQ GPM 207 13.58
BQ GPM 209 15.52
BQ GPM 211 52.63
BQ GPM 213 61.80
BQ GPM 215 24.46
BQ GPM 217 70.33
BQ GPM 219 123.34
BQ GPM 221 63.99
BQ GPM 223 52.44
BQ GPM 225 2.81
BQ GPM 227 16.50
BQ GPM 229 10.91
BQ GPM 231 18.31
BQ GPM 233 25.12
BQ GPM 235 10.76
BQ GPM 237 10.91
BQ GPM 239 35.98
BQ GPM 241 13.43
BQ GPM 243 24.25
BQ GPM 245 52.64
BQ GPM 247 9.87
BQ GPM 249 11.34
BQ GPM 251 11.34
BQ GPM 301 17.00
BQ GPM 303 11.42
BQ GPM 305 34.21
BQ GPM 307 75.72
BQ GPM 309 43.32
BQ GPM 311 84.15
BQ GPM 313 44.13

BQ GPM 315 46.55
BQ GPM 317 42.78
BQ GPM 319 30.16
BQ GPM 321 81.99
BQ GPM 323 70.08
BQ GPM 401 34.78
BQ GPM 403 12.99
BQ GPM 407 7.67
BQ GPM 409 46.55
BQ GPM 411 19.39
BQ GPM 413 5.77
BQ GPM 415 47.92
BQ GPM 417 26.48
BQ GPM 501 46.23
BQ GPM 503 26.87
BQ GPM 505 59.82
BQ GPM 507 23.08
BQ GPM 509 9.07
BQ GPM 513 9.07
BQ GPM 515 9.07
BQ GPM 517 9.07
BQ GPM 601 16.58
BQ GPM 603 38.24
BQ GPM 605 26.23
BQ GPM 607 57.02
BQ GPM 609 59.57
BQ GPM 611 57.32
BQ GPM 613 5.08
BQ GPM 615 42.91
BQ GPM 617 36.74
BQ GPM 623 9.07
BQ GPM 625 6.81
BQ GPM 627 17.34
BQ GPM 629 31.35
BQ GPM 631 31.35
BQ GPM 633 40.86
BQ GPM 635 19.05
BQ GPM 637 31.35
BQ GPM 639 8.26
BQ GPM 641 31.35
BQ GPM 645 9.07
BQ GPM 647 3.64
BQ GPM 701 51.34
BQ GPM 703 44.19
BQ GPM 705 54.44
BQ GPM 707 38.43
BQ GPM 709 20.61
BQ GPM 711 73.43
BQ GPM 713 36.15
BQ GPM 715 23.70
BQ GPM 717 27.94
BQ GPM 719 36.44
BQ GPM 721 27.96
BQ GPM 723 27.94

BQ GPM 803 66.27
BQ GPM 805 61.35
BQ GPM 807 61.35
BQM 1.1108491 ALL

End of File: H95BQ

BQM 2.25 ALL
INCLUDE H95EPK

INCLUDE H90EPK

* THE FOLLOWING ARE EMWD CONNECTIONS USED DURING PEAK HOURLY
* AND MAX DAYFLOW

.ignored
.ignored
.ignored

* EMWD WELL #23 -- ABOUT 650 GPM

LINE 352 23 303 CV 1200 8 110

NXYZ 23 157 210 1580

---NEW COORD FOR NODE 23

BH PSI 23 65

* CHANGE TO INFLOW OF 650 GPM

BQ 23 -650

.ignored

---NEW BNDRY COND FOR NODE 23

* EMWD FRUITVALE CONNECTION

LINE 428 18 419 CV 2800 8 110

NXYZ 18 234 208 1640

.ignored

---NEW COORD FOR NODE 18

BH PSI 18 65

* CHANGE TO INFLOW OF 800 GPM

BQ 18 -800

.ignored

---NEW BNDRY COND FOR NODE 18

* THE EMWD 30" CONNECTION AT PARK HILL IS USED TO MAINTAIN WATER

* LEVELS IN THE PARK HILL TANKS

.ignored

.ignored

End of File: H90EPK

End of File: H95EPK

INCLUDE H95IMP

* 1995 IMPROVEMENTS

LINE 158 117 143 750 12 130

LINE 160 133 143 750 12 130

LINE 164 127 143 600 8 130

LINE 166 107 147 1300 10 130

* REDEFINE LINE 104 TO 104 & 168

LINE 104 147 105 1300 8 110

.ignored

.ignored

---NEW LINE SPEC

LINE 168 147 103 800 8 110

NXYZ 147 53 226 1534

---NEW COORD FOR NODE 147

LINE 254 229 253 2700 12 110

---NEW LINE SPEC

LINE 280 245 255 700 8 110

---NEW LINE SPEC

LINE 290 253 255 1300 10 130

LINE 292 255 729 700 10 130

LINE 294 253 313 1300 12 110

LINE 296 255 247 300 8 110

LINE 356 301 303 1300 10 130

```

-----
LINE 354 303 305 1300 10 130
*          16 INCH NEW MAIN TO PARK HILL TANKS IN NE
LINE 432 405 409 5200 16 130
LINE 434 409 413 1300 16 130
LINE 436 411 413 1300 16 130
* REDEFINE LINE 688 TO 3000 FT IN PARALLEL WITH NEW 18 INCH
LINE 688 15 1115 3000 12 100
* NEW 18 INCH TO ECHO HILL IN SE
LINE 698 15 1115 3000 18 130
LINE 1698 1115 639 3400 18 130
NXYZ 1115 165 45 1663
LINE 756 727 733 3400 12 130
LINE 806 733 805 1800 12 130
NXYZ 143 50 169 1537
NXYZ 145 61 241 1533
NXYZ 255 120 144 1573
NXYZ 253 120 160 1578
NXYZ 735 74 106 1545
*          TWO NEW WELLS -- USE PUMP CURVE 7 FOR NOW
LINE 156 145 101 PUMP 7
BEL 145 1313 735 1320
LINE 758 735 713 PUMP 7
*          INCLUDE H95IMP.ALT -- INCLUDE ALTERNATIVE IMPROVEMENTS
End of File: H95IMP

SID 1995+IMP
BH PSI 503 20
BID FF0503
GO NOND MGD

```

.ignored
.ignored
.ignored

.ignored
.ignored

---NEW LINE SPEC
.ignored

.ignored

.ignored

---NEW COORD FOR NODE 143

---NEW COORD FOR NODE 145

---NEW COORD FOR NODE 255

---NEW COORD FOR NODE 253

---NEW COORD FOR NODE 735

.ignored

.ignored

---NEW BNDRY COND FOR NODE 503

Solving for 133 unknowns, 1/2 bandwidth = 16, matrix storage = 2141

If PMP appears after Max. Corr., then at least one pump is operating out of range

Iter	Node	Max. Corr.	Limit Corr.	Time
1	18	0.655814E+03	PMP 100.00000	14:12:09
2	405	-0.462044E+03	PMP 100.00000	14:12:10
3	18	0.332118E+03	PMP 100.00000	14:12:10
4	405	-0.269275E+03	60.00000	14:12:11
5	421	-0.263899E+02	36.00000	14:12:12
6	18	0.211721E+02	26.38992	14:12:13
7	18	0.198428E+01	15.83395	14:12:13
8	419	-0.134471E+01	1.98428	14:12:14
9	419	-0.191684E+00	1.07577	14:12:15
10	405	0.132539E+00	0.19168	14:12:16
11	419	-0.633168E-02	0.10603	14:12:17
12	18	-0.267815E-02	0.00633	14:12:17
13	323	0.217955E-03	0.00268	14:12:18

EXAMPLE WADSY RUN

2010 PEAK HOUR CONDITIONS

RECOMMENDED CIP IMPROVEMENTS

DATA OUTPUT

Convergence:

13 Iterations

0.00000 Max. HGL Correction

WADSY -- Water Distribution System Analysis Program -- ALL RIGHTS RESERVED.

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WATER DISTRIBUTION ANALYSIS FOR

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

M E T C A L F & E D D Y

E N G I N E E R S

SYSTEM 2010.IMP CONDITIONS MULT=4.0 90/05/30 14:26:57

PUMPS	PIPES	TOTAL NODES	BOUNDARY NODES	CV'S	prv/psv
11	238	147	131	2	0

PUMP CURVE	1	FT	MGD
		260.000	1.729
		495.000	1.009
		685.000	0.000
PUMP CURVE	2	FT	MGD
		268.000	1.557
		416.000	0.937
		536.000	0.000
PUMP CURVE	3	FT	MGD
		286.000	2.220
		594.000	1.427
		825.000	0.000
PUMP CURVE	4	FT	MGD
		204.000	1.196
		468.000	0.807
		696.000	0.000
PUMP CURVE	6	FT	MGD
		320.000	1.557
		640.000	1.009
		880.000	0.000
PUMP CURVE	7	FT	MGD
		220.000	1.557
		440.000	1.009
		605.000	0.000
PUMP CURVE	8	FT	MGD
		221.000	1.196
		507.000	0.807
		754.000	0.000
PUMP CURVE	9	FT	MGD
		360.000	2.508
		708.000	1.744
		876.000	0.000

PUMP CURVE	11	FT	MGD
		114.000	1.009
		462.000	0.706
		504.000	0.431
		510.000	0.000

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR

2010.IMP MULT=4.0

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS		
1	1	325				1.41	-365.12			PS, PD	-260.00 105.12
2	2	327				1.23	-345.41			PS, PD	-270.00 75.41
3	3	647				1.93	-400.12			PS, PD	-262.00 137.12
4	4	727				0.92	-389.59			PS, PD	-257.00 131.59
6	6	421				1.04	-624.06			PS, PD	-508.00 116.06
7	7	733				1.16	-378.16			PS, PD	-244.00 134.16
8	8	733				1.01	-361.16			PS, PD	-227.00 134.16
9	9	423				2.17	-513.42			PS, PD	-375.00 138.42
11	11	727				0.78	-379.59			PS, PD	-247.00 131.59
100	101	105	1200	8	100	0.61	7.20	6.00	2.69		
102	101	103	900	8	100	0.59	5.05	5.61	2.59		
104	105	147	1300	8	110	0.16	0.58	0.45	0.73		
106	107	109	400	10	100	0.50	0.57	1.43	1.43		
108	109	201	1260	10	100	0.32	0.79	0.63	0.92		
110	107	111	1300	10	100	0.13	0.15	0.12	0.37		
112	109	113	1400	8	100	0.08	0.20	0.15	0.36		
114	111	113	700	8	100	0.22	0.62	0.89	0.96		
116	113	205	900	8	100	0.20	0.68	0.76	0.88		
118	117	111	1300	10	100	0.18	0.29	0.22	0.52		
120	119	115	1400	8	100	0.10	0.32	0.23	0.46		
122	123	117	1000	8	100	0.02	0.01	0.01	0.10		
124	117	119	1400	10	100	0.47	1.74	1.24	1.32		
126	123	121	1000	8	100	0.01	0.00	0.00	0.06		
128	125	121	500	8	100	0.03	0.01	0.03	0.14		
130	127	125	1000	8	100	0.08	0.13	0.13	0.34		
132	127	123	500	8	100	0.12	0.14	0.28	0.51		
134	133	117	1300	6	100	0.12	1.45	1.12	0.91		
136	119	129	650	6	100	0.08	0.34	0.52	0.60		
138	133	227	2600	6	100	0.10	2.31	0.89	0.80		
140	133	131	2400	14	100	0.34	0.32	0.13	0.49		
142	135	133	1300	14	100	1.18	1.75	1.34	1.71		
144	131	137	1400	12	100	0.11	0.05	0.04	0.22		
146	139	137	2650	12	100	0.52	1.68	0.63	1.03		
148	141	139	1300	8	100	0.09	0.24	0.18	0.41		
150	135	141	1300	12	100	0.25	0.21	0.16	0.49		
152	141	801	700	8	100	0.19	0.49	0.70	0.84		
154	139	133	1300	12	100	0.67	1.30	1.00	1.32		
156	145	101				1.29	-328.64			PS, PD	-220.00 108.64
158	143	117	750	12	130	0.73	0.54	0.72	1.44		
160	133	143	750	12	130	0.97	0.91	1.21	1.91		
164	143	127	600	8	130	0.24	0.39	0.65	1.05		
166	147	107	1300	10	130	0.66	1.88	1.44	1.87		
168	103	147	800	8	110	0.49	2.74	3.42	2.18		
200	105	203	3150	8	100	0.26	3.86	1.22	1.14		
202	201	203	940	10	100	0.07	0.04	0.04	0.21		
204	203	249	1000	10	100	0.15	0.15	0.15	0.42		
206	249	251	900	10	100	0.03	0.01	0.01	0.09		
208	201	205	1400	8	100	0.05	0.10	0.07	0.24		
210	201	207	1500	8	100	0.10	0.30	0.20	0.43		
212	205	207	800	8	100	0.11	0.21	0.26	0.50		
214	207	209	200	8	100	0.11	0.05	0.26	0.49		
216	203	209	1300	8	100	0.11	0.32	0.25	0.48		

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS
218	211	209	1300	8	100	0.12	0.40	0.31	0.54
220	213	211	1300	8	100	0.74	11.28	8.67	3.28
222	209	215	400	10	100	0.23	0.14	0.34	0.66
224	215	115	2000	8	100	0.04	0.07	0.03	0.17
226	215	217	900	10	100	0.02	0.00	0.00	0.05
228	211	219	1300	8	100	0.14	0.54	0.42	0.64
230	213	221	1300	6	100	0.07	0.66	0.50	0.59
232	119	217	1200	8	100	0.10	0.25	0.21	0.44
234	217	219	1300	8	100	0.01	0.00	0.00	0.02
236	221	219	1300	8	100	0.74	11.17	8.59	3.27
238	223	217	650	12	100	0.39	0.23	0.36	0.76
240	223	129	1300	6	100	0.05	0.32	0.25	0.40
242	231	221	1300	6	100	0.22	4.80	3.69	1.73
244	227	223	650	12	100	0.80	0.90	1.39	1.57
246	233	227	2000	6	100	0.20	6.33	3.16	1.59
248	225	135	600	14	100	1.34	1.02	1.70	1.94
250	225	135	600	6	100	0.14	1.02	1.70	1.14
252	229	225	700	14	100	1.71	1.87	2.67	2.47
254	253	229	2700	12	110	1.79	13.87	5.14	3.51
256	231	233	700	6	100	0.42	8.50	12.15	3.29
258	225	235	650	8	100	0.20	0.48	0.74	0.87
260	237	227	650	8	100	0.61	3.88	5.98	2.68
262	233	239	650	6	100	0.05	0.13	0.20	0.36
264	235	237	700	6	100	0.11	0.71	1.01	0.86
266	239	237	2000	6	100	0.12	2.31	1.15	0.92
268	235	241	650	8	100	0.00	0.00	0.00	0.02
270	243	237	650	8	100	0.45	2.28	3.51	2.01
272	245	239	650	6	100	0.32	4.83	7.43	2.52
274	241	141	600	8	100	0.26	0.74	1.24	1.15
276	243	241	700	8	100	0.36	1.57	2.24	1.58
278	245	243	2000	8	100	0.37	4.86	2.43	1.65
280	255	245	700	8	110	1.06	9.89	14.14	4.70
282	601	247	1300	8	100	0.18	0.83	0.64	0.80
288	211	251	1700	8	100	0.08	0.24	0.14	0.35
290	255	253	1300	10	130	0.13	0.10	0.08	0.38
292	729	255	700	10	130	0.50	0.62	0.88	1.43
294	313	253	1300	12	110	1.65	5.78	4.44	3.25
296	247	255	300	8	110	0.69	1.92	6.38	3.06
300	301	213	1300	8	100	1.27	30.77	23.67	5.65
302	401	305	1300	8	100	1.18	26.54	20.41	5.21
304	301	307	1300	6	100	0.40	14.78	11.37	3.17
306	303	309	1300	8	100	0.25	1.46	1.12	1.09
308	311	305	1300	6	100	0.30	8.68	6.67	2.38
310	307	221	1300	8	100	0.91	16.65	12.81	4.05
312	309	307	1300	8	100	1.16	25.67	19.74	5.12
314	325	309	750	8	100	1.23	16.52	22.02	5.43
316	325	311	550	8	100	0.18	0.35	0.64	0.80
318	407	311	1300	8	100	0.88	15.36	11.81	3.88
320	307	313	1300	10	100	0.09	0.08	0.06	0.27
322	311	317	1300	6	100	0.18	3.34	2.57	1.42
324	313	231	1300	8	100	0.76	11.77	9.05	3.36
326	315	313	1300	10	100	1.73	18.27	14.05	4.90

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS		
328	317	315	1320	10	100	1.82	20.31	15.39	5.15		
330	317	315	1320	6	100	0.47	20.31	15.39	3.73		
332	411	317	1300	12	100	2.75	17.77	13.67	5.42		
334	327	313	650	10	100	0.87	2.55	3.93	2.46		
336	327	319	650	10	100	0.36	0.51	0.78	1.03		
338	319	247	1000	8	100	0.60	5.81	5.81	2.64		
340	321	319	1300	8	100	0.68	9.58	7.37	3.01		
342	315	321	1300	6	100	0.26	6.64	5.11	2.06		
344	317	323	1300	6	100	0.37	12.46	9.59	2.89		
346	323	321	1320	8	100	0.84	14.49	10.98	3.73		
348	415	323	1300	8	100	0.99	19.30	14.85	4.39		
350	319	603	650	8	100	0.22	0.60	0.92	0.98		
352	23	303	CV	1200	8	110	0.94	13.46	11.21	4.15	Open
354	305	303		1300	10	130	1.24	6.03	4.64	3.50	
356	303	301		1300	10	130	1.82	12.35	9.50	5.16	
400	403	401		1300	14	100	2.85	8.93	6.87	4.12	
402	419	403		2700	14	100	3.36	25.14	9.31	4.85	
404	401	407		1300	14	100	1.43	2.50	1.92	2.07	
406	403	409		1300	10	100	0.43	1.36	1.05	1.21	
408	409	407		1300	6	100	0.33	10.07	7.75	2.58	
410	407	411		1300	14	100	0.84	0.92	0.71	1.21	
412	409	413		1300	6	100	0.25	6.32	4.86	2.00	
414	413	411		1300	8	100	0.46	4.67	3.59	2.04	
416	411	415		1300	12	100	2.12	10.94	8.41	4.17	
418	413	417		1300	6	100	0.41	15.59	12.00	3.26	
420	417	415		1300	8	100	0.02	0.01	0.01	0.08	
422	421	405		8600	12	100	1.04	19.25	2.24	2.04	
424	423	405		750	12	100	2.17	6.60	8.81	4.27	
426	16	405		600	30	100	3.92	0.18	0.30	1.23	
428	18	419	CV	2800	8	110	1.15	46.12	16.47	5.11	Open
430	405	419		1200	14	100	2.20	5.12	4.27	3.19	
432	405	409		5200	16	130	4.92	31.62	6.08	5.45	
434	409	413		1300	16	130	4.36	6.32	4.86	4.83	
436	413	411		1300	16	130	3.71	4.67	3.59	4.10	
500	415	501		1300	10	100	0.82	4.57	3.52	2.32	
502	417	503		1300	6	100	0.21	4.58	3.52	1.68	
504	503	501		1300	8	100	0.01	0.01	0.00	0.06	
506	505	501		1300	12	100	0.35	0.39	0.30	0.69	
508	503	507		1300	6	100	0.01	0.02	0.02	0.10	
510	505	507		1300	6	100	0.06	0.41	0.32	0.46	
512	513	505		1300	12	100	1.00	2.72	2.09	1.97	
514	511	507		1300	6	100	0.09	0.94	0.72	0.72	
516	509	511		1300	6	100	0.09	0.94	0.72	0.72	
518	513	509		200	6	100	0.29	1.25	6.26	2.30	
520	515	513		1300	12	100	1.23	4.02	3.09	2.43	
522	515	513		1300	6	100	0.20	4.02	3.09	1.57	
524	517	515		1300	12	100	1.07	3.09	2.38	2.11	
526	517	515		1300	6	100	0.17	3.09	2.38	1.36	
528	509	505		1100	6	100	0.13	1.47	1.33	1.00	
600	603	601		300	6	100	0.46	4.38	14.60	3.63	
602	605	603		650	8	100	0.51	2.80	4.31	2.25	
604	607	321		1300	6	100	0.15	2.37	1.82	1.18	

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS
606	323	609	1300	6	100	0.03	0.12	0.09	0.23
608	605	703	1300	8	100	0.47	4.84	3.72	2.08
610	607	605	1300	8	100	0.68	9.74	7.49	3.03
612	609	607	1320	8	100	0.76	12.01	9.10	3.37
614	501	609	1300	8	100	0.86	14.85	11.42	3.81
616	611	605	1300	6	100	0.48	20.21	15.55	3.75
618	615	607	1300	6	100	0.47	19.95	15.34	3.73
620	617	609	1300	6	100	0.29	7.94	6.11	2.27
622	611	711	1300	10	100	0.88	5.24	4.03	2.50
624	613	611	550	10	100	1.37	5.04	9.16	3.89
626	615	613	750	10	100	1.08	4.43	5.91	3.07
628	617	615	1320	10	100	0.01	0.00	0.00	0.04
630	505	617	1300	6	100	0.28	7.30	5.62	2.17
632	619	611	650	6	100	0.38	6.74	10.37	3.02
634	621	613	900	8	100	0.32	1.66	1.85	1.42
636	623	615	650	12	100	1.60	3.24	4.98	3.14
638	623	615	650	6	100	0.26	3.24	4.98	2.03
640	629	617	1300	6	100	0.31	8.93	6.87	2.41
642	625	619	650	6	100	0.42	7.96	12.25	3.30
644	627	623	650	12	100	2.21	5.93	9.12	4.36
646	625	721	1300	6	100	0.21	4.25	3.27	1.62
648	627	625	1300	6	100	0.20	3.94	3.03	1.55
650	627	629	1320	6	100	0.04	0.24	0.18	0.34
652	631	629	450	4	100	0.05	0.75	1.66	0.87
654	513	631	850	6	100	0.07	0.35	0.41	0.53
656	633	625	650	6	100	0.50	11.13	17.12	3.95
658	635	627	650	12	100	2.61	8.07	12.41	5.14
660	637	629	450	8	100	0.44	1.52	3.37	1.97
662	637	631	900	8	100	0.21	0.77	0.86	0.94
664	647	633	650	8	100	0.76	5.97	9.18	3.39
666	639	635	650	12	100	2.99	10.35	15.92	5.88
668	641	637	850	8	100	0.89	10.29	12.11	3.93
670	647	727	1300	12	100	2.56	15.53	11.95	5.04
672	639	647	1300	12	100	1.43	5.25	4.04	2.81
674	639	641	1320	12	100	1.63	6.85	5.19	3.21
676	641	515	1300	6	100	0.26	6.70	5.15	2.07
678	639	643	1300	12	100	1.14	3.48	2.68	2.25
680	641	645	1300	12	100	0.22	0.16	0.12	0.43
682	643	645	1320	12	100	1.14	3.53	2.68	2.25
684	645	517	1300	12	100	1.13	3.44	2.65	2.23
686	645	517	1300	6	100	0.18	3.44	2.65	1.44
688	15	1115	3000	12	100	1.52	13.68	4.56	3.00
690	635	633	1300	8	100	0.19	0.87	0.67	0.82
692	641	645	1300	6	100	0.03	0.16	0.12	0.28
694	619	621	300	6	100	0.04	0.04	0.13	0.28
696	623	621	1000	6	100	0.29	6.01	6.01	2.25
698	15	1115	3000	18	130	5.75	13.68	4.56	5.03
700	701	243	1300	8	100	0.63	8.41	6.47	2.80
702	703	701	2650	8	100	0.51	11.43	4.31	2.25
704	703	729	650	8	100	0.65	4.47	6.88	2.90
706	707	701	1300	6	100	0.48	20.79	15.99	3.81
708	711	703	1300	8	100	1.01	19.81	15.24	4.45

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

PIPE	FROM	TO	L(FT)	D(IN)	C	Q(MGD)	H1-H2(FT)	HL/1000L	V,FPS
710	707	705	600	8	100	0.02	0.01	0.01	0.10
712	709	707	1325	8	100	0.53	6.12	4.62	2.34
714	711	709	1325	8	100	0.44	4.33	3.27	1.94
716	713	705	500	8	100	0.48	1.93	3.86	2.12
718	717	707	1300	8	100	0.27	1.68	1.29	1.17
720	709	717	2100	6	100	0.16	4.44	2.11	1.28
722	719	709	1000	6	100	0.40	11.06	11.06	3.12
724	719	711	2400	6	100	0.19	6.73	2.80	1.49
726	721	711	1300	8	100	0.89	15.70	12.08	3.93
728	713	715	1000	8	100	0.39	2.65	2.65	1.73
730	731	713	1000	8	100	0.00	0.00	0.00	0.01
732	733	705	2600	6	100	0.28	15.54	5.98	2.24
734	723	717	1400	6	100	0.33	11.22	8.02	2.63
736	725	719	1400	6	100	0.21	4.82	3.45	1.66
738	721	719	1400	8	100	0.63	8.97	6.41	2.79
740	727	721	1300	12	100	1.51	5.82	4.47	2.97
742	733	723	600	6	100	0.24	2.62	4.37	1.89
744	725	723	1200	6	100	0.32	9.10	7.58	2.55
746	727	725	1600	8	100	0.62	9.96	6.23	2.75
750	601	729	1000	6	100	0.16	2.13	2.13	1.28
752	733	731	1400	8	100	0.79	13.61	9.72	3.49
754	731	715	500	8	100	0.57	2.65	5.31	2.52
756	727	733	3400	12	130	2.04	16.44	4.83	4.02
758	735	713			PUMP 7	1.24	-348.55		
800	803	139	1800	12	100	1.54	8.40	4.67	3.03
802	805	807	1300	12	100	2.21	11.78	9.07	4.34
804	715	807	1400	8	100	0.74	12.15	8.68	3.28
806	733	805	1800	12	130	2.90	16.63	9.24	5.70
808	807	803	1800	12	130	2.26	10.47	5.81	4.44
1698	1115	639	3400	18	130	7.27	23.95	7.04	6.36

PS, PD -225.00 123.55

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR

2010.IMP MULT=4.0

NODE NO	COORDINATES			GRADIENT RESULTS			BOUNDARY SPEC		Q(MGD)	TYPE		
	X(FT)	Y(FT)	Z(FT)	HG(FT)	P(FT)	P(PST)						
1	162	175	1595	1335.00	-260.00	-112.55	-1.41	BEL	Pump S			
2	136	152	1585	1315.00	-270.00	-116.88	-1.23	BEL	Pump S			
3	137	73	1576	1314.00	-262.00	-113.42	-1.93	BEL	Pump S			
4	120	73	1566	1309.00	-257.00	-111.26	-0.92	BEL	Pump S			
6	286	218	1660	1152.00	-508.00	-219.91	-1.04	BEL	Pump S			
7	78	73	1548	1304.00	-244.00	-105.63	-1.16	BEL	Pump S			
8	77	74	1548	1321.00	-227.00	-98.27	-1.01	BEL	Pump S			
9	251	198	1625	1250.00	-375.00	-162.34	-2.17	BEL	Pump S			
11	116	75	1566	1319.00	-247.00	-106.93	-0.78	BEL	Pump S			
15	184	12	1737	1757.00	20.00	8.66	-7.27	BEL				
16	256	196	1738	1757.00	19.00	8.23	-3.92	BEL				
18	234	208	1640	1797.82	157.82	68.32	-1.15	BQ	CV Open		-1.15	0.0
23	157	210	1580	1698.52	118.52	51.31	-0.94	BQ	CV Open		-0.94	0.0
101	61	241	1533	1641.64	108.64	47.03	0.09	BQ	Pump D		0.09	0.0
103	54	235	1532	1636.59	104.59	45.28	0.09	BQ			0.09	0.0
105	67	226	1537	1634.44	97.44	42.18	0.19	BQ			0.19	0.0
107	53	211	1537	1631.98	94.98	41.12	0.02	BQ			0.02	0.0
109	58	211	1540	1631.41	91.41	39.57	0.10	BQ			0.10	0.0
111	53	195	1538	1631.83	93.83	40.62	0.10	BQ			0.10	0.0
113	61	195	1540	1631.21	91.21	39.48	0.10	BQ			0.10	0.0
115	65	188	1545	1630.06	85.06	36.82	0.14	BQ			0.14	0.0
117	53	177	1541	1632.12	91.12	39.44	0.22	BQ			0.22	0.0
119	69	177	1550	1630.38	80.38	34.79	0.19	BQ			0.19	0.0
121	29	175	1530	1632.13	102.13	44.21	0.04	BQ			0.04	0.0
123	42	175	1536	1632.13	96.13	41.61	0.08	BQ			0.08	0.0
125	29	169	1530	1632.14	102.14	44.22	0.04	BQ			0.04	0.0
127	42	169	1536	1632.27	96.27	41.68	0.04	BQ			0.04	0.0
129	69	169	1550	1630.04	80.04	34.65	0.13	BQ			0.13	0.0
131	23	161	1526	1633.24	107.24	46.43	0.23	BQ			0.23	0.0
133	53	161	1539	1633.57	94.57	40.94	0.33	BQ			0.33	0.0
135	69	160	1547	1635.32	88.32	38.23	0.06	BQ			0.06	0.0
137	19	145	1523	1633.20	110.20	47.70	0.63	BQ			0.63	0.0
139	53	145	1535	1634.87	99.87	43.23	0.44	BQ			0.44	0.0
141	69	145	1543	1635.11	92.11	39.87	0.23	BQ			0.23	0.0
143	50	169	1537	1632.66	95.66	41.41						0.0
145	61	241	1533	1313.00	-220.00	-95.24	-1.29	BEL	Pump S			
147	53	226	1534	1633.86	99.86	43.23						0.0
201	74	210	1545	1630.62	85.62	37.07	0.10	BQ			0.10	0.0
203	86	210	1549	1630.58	81.58	35.32	0.08	BQ			0.08	0.0
205	70	195	1543	1630.53	87.53	37.89	0.14	BQ			0.14	0.0
207	80	195	1548	1630.32	82.32	35.64	0.10	BQ			0.10	0.0
209	86	194	1553	1630.27	77.27	33.45	0.11	BQ			0.11	0.0
211	102	193	1550	1630.67	80.67	34.92	0.39	BQ			0.39	0.0
213	119	193	1567	1641.95	74.95	32.44	0.46	BQ			0.46	0.0
215	86	188	1554	1630.13	76.13	32.96	0.18	BQ			0.18	0.0
217	86	177	1558	1630.13	72.13	31.22	0.50	BQ			0.50	0.0
219	102	177	1563	1630.13	67.13	29.06	0.89	BQ			0.89	0.0
221	119	177	1572	1641.29	69.29	30.00	0.47	BQ			0.47	0.0
223	86	169	1558	1630.36	72.36	31.33	0.36	BQ			0.36	0.0
225	77	160	1553	1636.34	83.34	36.08	0.03	BQ			0.03	0.0
227	86	161	1558	1631.26	73.26	31.71	0.11	BQ			0.11	0.0
229	87	159	1558	1638.21	80.21	34.72	0.07	BQ			0.07	0.0

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

NODE NO	COORDINATES			GRADIENT RESULTS			BOUNDARY SPEC		Q(MGD)	TYPE		
	X(FT)	Y(FT)	Z(FT)	HG(FT)	P(FT)	P(PST)						
231	119	161	1578	1646.09	68.09	29.48	0.12	BQ	0.12	0.0		
233	111	162	1574	1637.59	63.59	27.53	0.17	BQ	0.17	0.0		
235	77	152	1550	1635.85	85.85	37.17	0.08	BQ	0.08	0.0		
237	87	152	1555	1635.15	80.15	34.69	0.07	BQ	0.07	0.0		
239	111	152	1570	1637.45	67.45	29.20	0.25	BQ	0.25	0.0		
241	77	144	1549	1635.85	86.85	37.60	0.10	BQ	0.10	0.0		
243	87	144	1553	1637.42	84.42	36.55	0.19	BQ	0.19	0.0		
245	111	144	1568	1642.28	74.28	32.16	0.37	BQ	0.37	0.0		
247	123	144	1573	1654.09	81.09	35.10	0.09	BQ	0.09	0.0		
249	99	210	1557	1630.44	73.44	31.79	0.11	BQ	0.11	0.0		
251	108	210	1559	1630.43	71.43	30.92	0.11	BQ	0.11	0.0		
253	120	160	1578	1652.08	74.08	32.07				0.0		
255	120	144	1573	1652.18	79.18	34.28				0.0		
301	136	193	1575	1672.72	97.72	42.30	0.14	BQ	0.14	0.0		
303	152	193	1583	1685.06	102.06	44.18	0.11	BQ	CV Open	0.11	0.0	
305	169	193	1593	1691.09	98.09	42.46	0.24	BQ		0.24	0.0	
307	136	177	1579	1657.94	78.94	34.17	0.55	BQ		0.55	0.0	
309	152	177	1588	1683.60	95.60	41.39	0.32	BQ		0.32	0.0	
311	169	177	1598	1699.77	101.77	44.06	0.57	BQ		0.57	0.0	
313	136	160	1586	1657.86	71.86	31.11	0.28	BQ		0.28	0.0	
315	153	160	1593	1676.12	83.12	35.98	0.30	BQ		0.30	0.0	
317	169	160	1600	1696.43	96.43	41.75	0.28	BQ		0.28	0.0	
319	136	145	1584	1659.90	75.90	32.86	0.22	BQ		0.22	0.0	
321	153	145	1595	1669.48	74.48	32.24	0.57	BQ		0.57	0.0	
323	169	145	1606	1683.97	77.97	33.75	0.49	BQ		0.49	0.0	
325	162	177	1595	1700.12	105.12	45.51			Pump D		0.0	
327	136	152	1585	1660.41	75.41	32.64			Pump D		0.0	
401	186	193	1614	1717.63	103.63	44.86	0.24	BQ		0.24	0.0	
403	204	193	1613	1726.56	113.56	49.16	0.08	BQ		0.08	0.0	
405	253	193	1670	1756.82	86.82	37.58					0.0	
407	186	177	1619	1715.13	96.13	41.61	0.05	BQ		0.05	0.0	
409	204	177	1618	1725.20	107.20	46.41	0.40	BQ		0.40	0.0	
411	186	160	1611	1714.21	103.21	44.68	0.13	BQ		0.13	0.0	
413	204	160	1622	1718.88	96.88	41.94	0.04	BQ		0.04	0.0	
415	186	145	1617	1703.27	86.27	37.35	0.33	BQ		0.33	0.0	
417	204	145	1629	1703.28	74.28	32.16	0.18	BQ		0.18	0.0	
419	234	193	1635	1751.69	116.69	50.52			CV Open		0.0	
421	288	220	1660	1776.06	116.06	50.24			Pump D		0.0	
423	250	198	1625	1763.42	138.42	59.92			Pump D		0.0	
501	186	127	1619	1698.70	79.70	34.50	0.32	BQ		0.32	0.0	
503	204	127	1630	1698.71	68.71	29.74	0.19	BQ		0.19	0.0	
505	186	111	1618	1699.09	81.09	35.11	0.44	BQ		0.44	0.0	
507	204	111	1628	1698.68	70.68	30.60	0.16	BQ		0.16	0.0	
509	184	98	1614	1700.56	86.56	37.47	0.07	BQ		0.07	0.0	
511	204	98	1616	1699.62	83.62	36.20					0.0	
513	186	95	1613	1701.81	88.81	38.45	0.07	BQ		0.07	0.0	
515	186	78	1615	1705.83	90.83	39.32	0.07	BQ		0.07	0.0	
517	186	61	1607	1708.92	101.92	44.12	0.07	BQ		0.07	0.0	
601	131	135	1580	1654.93	74.93	32.44	0.12	BQ		0.12	0.0	
603	136	135	1584	1659.31	75.31	32.60	0.27	BQ		0.27	0.0	
605	136	127	1583	1662.11	79.11	34.25	0.18	BQ		0.18	0.0	
607	153	127	1595	1671.84	76.85	33.27	0.40	BQ		0.40	0.0	

JOB HEMET CALIF 2010 IMPROVED SYSTEM AT PEAK HOUR 2010.IMP MULT=4.0

NODE NO	COORDINATES			GRADIENT RESULTS			BOUNDARY SPEC		Q(MGD)	TYPE		
	X(FT)	Y(FT)	Z(FT)	HG(FT)	P(FT)	P(PST)						
609	169	127	1608	1683.85	75.85	32.84	0.42	BQ			0.42	0.0
611	136	111	1582	1682.32	100.32	43.43	0.40	BQ			0.40	0.0
613	140	111	1586	1687.36	101.36	43.88	0.03	BQ			0.03	0.0
615	153	111	1594	1691.79	97.79	42.33	0.31	BQ			0.31	0.0
617	169	111	1606	1691.79	85.79	37.14	0.28	BQ			0.28	0.0
619	136	102	1582	1689.06	107.06	46.35						0.0
621	140	102	1583	1689.02	106.02	45.90						0.0
623	153	102	1593	1695.03	102.03	44.17	0.07	BQ			0.07	0.0
625	136	95	1581	1697.02	116.02	50.23	0.07	BQ			0.07	0.0
627	153	95	1592	1700.96	108.96	47.17	0.16	BQ			0.16	0.0
629	169	95	1603	1700.72	97.72	42.30	0.23	BQ			0.23	0.0
631	176	95	1606	1701.46	95.46	41.33	0.23	BQ			0.23	0.0
633	136	86	1579	1708.15	129.15	55.91	0.45	BQ			0.45	0.0
635	153	86	1591	1709.02	118.02	51.09	0.19	BQ			0.19	0.0
637	169	86	1602	1702.24	100.24	43.39	0.23	BQ			0.23	0.0
639	153	78	1589	1719.37	130.38	56.44	0.08	BQ			0.08	0.0
641	169	78	1601	1712.53	111.53	48.28	0.23	BQ			0.23	0.0
643	153	61	1588	1715.90	127.90	55.37						0.0
645	169	61	1602	1712.36	110.37	47.78	0.07	BQ			0.07	0.0
647	136	78	1577	1714.12	137.12	59.36	0.03	BQ	Pump D		0.03	0.0
701	86	127	1551	1645.84	94.84	41.05	0.36	BQ			0.36	0.0
703	119	127	1572	1657.27	85.27	36.91	0.31	BQ			0.31	0.0
705	78	111	1546	1666.62	120.62	52.22	0.79	BQ			0.79	0.0
707	86	111	1550	1666.63	116.63	50.49	0.29	BQ			0.29	0.0
709	103	111	1559	1672.75	113.75	49.24	0.14	BQ			0.14	0.0
711	119	111	1571	1677.08	106.08	45.92	0.51	BQ			0.51	0.0
713	74	106	1545	1668.55	123.55	53.48	0.37	BQ	Pump D		0.37	0.0
715	71	97	1543	1665.89	122.89	53.20	0.22	BQ			0.22	0.0
717	86	95	1550	1668.31	118.31	51.22	0.23	BQ			0.23	0.0
719	103	96	1558	1683.80	125.80	54.46	0.26	BQ			0.26	0.0
721	119	94	1572	1692.77	120.77	52.28	0.20	BQ			0.20	0.0
723	85	77	1550	1679.53	129.53	56.07	0.23	BQ			0.23	0.0
725	100	77	1558	1688.63	130.63	56.55	0.09	BQ			0.09	0.0
727	119	77	1567	1698.59	131.59	56.97	0.09	BQ	Pump D		0.09	0.0
729	119	135	1572	1652.80	80.80	34.98	0.31	BQ			0.31	0.0
731	78	95	1545	1668.55	123.55	53.48	0.22	BQ			0.22	0.0
733	78	77	1548	1682.16	134.16	58.08			Pump D			0.0
735	74	106	1545	1320.00	-225.00	-97.40	-1.24	BEL	Pump S			
801	69	133	1541	1634.62	93.62	40.53	0.19	BQ			0.19	0.0
803	53	121	1534	1643.27	109.27	47.30	0.71	BQ			0.71	0.0
805	53	79	1533	1665.52	132.52	57.37	0.69	BQ			0.69	0.0
807	53	97	1533	1653.74	120.74	52.27	0.69	BQ			0.69	0.0
1115	165	45	1663	1743.32	80.32	34.77						0.0

TOTAL SYSTEM Q = 27.44 Total BQ (pos) = 27.44 Total BQ (neg) = -2.09 0.00 0.00

DATA INPUT FOR

2010 WADSY MODEL

PEAK HOUR

SYSTEM IMPROVEMENTS MADE

INCLUDE H90PIP

LINE 100 101 105 1200 8 100
LINE 102 101 103 900 8 100
LINE 104 103 105 1500 8 100
LINE 106 107 109 400 10 100
LINE 108 109 201 1260 10 100
LINE 110 107 111 1300 10 100
LINE 112 109 113 1400 8 100
LINE 114 111 113 700 8 100
LINE 116 113 205 900 8 100
LINE 118 111 117 1300 10 100
LINE 120 115 119 1400 8 100
LINE 122 117 123 1000 8 100
LINE 124 117 119 1400 10 100
LINE 126 121 123 1000 8 100
LINE 128 121 125 500 8 100
LINE 130 125 127 1000 8 100
LINE 132 123 127 500 8 100
LINE 134 117 133 1300 6 100
LINE 136 119 129 650 6 100
LINE 138 133 227 2600 6 100
LINE 140 131 133 2400 14 100
LINE 142 133 135 1300 14 100
LINE 144 131 137 1400 12 100
LINE 146 137 139 2650 12 100
LINE 148 139 141 1300 8 100
LINE 150 135 141 1300 12 100
LINE 152 141 801 700 8 100
LINE 154 133 139 1300 12 100
LINE 200 105 203 3150 8 100
LINE 202 201 203 940 10 100
LINE 204 203 249 1000 10 100
LINE 206 249 251 900 10 100
LINE 208 201 205 1400 8 100
LINE 210 201 207 1500 8 100
LINE 212 205 207 800 8 100
LINE 214 207 209 200 8 100
LINE 216 203 209 1300 8 100
LINE 218 209 211 1300 8 100
LINE 220 211 213 1300 8 100
LINE 222 209 215 400 10 100
LINE 224 115 215 2000 8 100
LINE 226 215 217 900 10 100
LINE 228 211 219 1300 8 100
LINE 230 213 221 1300 6 100
LINE 232 119 217 1200 8 100
LINE 234 217 219 1300 8 100
LINE 236 219 221 1300 8 100
LINE 238 217 223 650 12 100
LINE 240 129 223 1300 6 100
LINE 242 221 231 1300 6 100
LINE 244 223 227 650 12 100
LINE 246 227 233 2000 6 100
LINE 248 135 225 600 14 100

LINE 250 135 225 600 6 100
 LINE 252 225 229 700 14 100
 LINE 254 229 313 4000 12 100
 LINE 256 233 231 700 6 100
 LINE 258 225 235 650 8 100
 LINE 260 227 237 650 8 100
 LINE 262 233 239 650 6 100
 LINE 264 235 237 700 6 100
 LINE 266 237 239 2000 6 100
 LINE 268 235 241 650 8 100
 LINE 270 237 243 650 8 100
 LINE 272 239 245 650 6 100
 LINE 274 141 241 600 8 100
 LINE 276 241 243 700 8 100
 LINE 278 243 245 2000 8 100
 LINE 280 245 247 1000 8 100
 LINE 282 247 601 1300 8 100
 LINE 288 251 211 1700 8 100
 LINE 300 213 301 1300 8 100
 LINE 302 305 401 1300 8 100
 LINE 304 301 307 1300 6 100
 LINE 306 303 309 1300 8 100
 LINE 308 305 311 1300 6 100
 LINE 310 221 307 1300 8 100
 LINE 312 307 309 1300 8 100
 LINE 314 309 325 750 8 100
 LINE 316 325 311 550 8 100
 LINE 318 311 407 1300 8 100
 LINE 320 307 313 1300 10 100
 LINE 322 311 317 1300 6 100
 LINE 324 231 313 1300 8 100
 LINE 326 313 315 1300 10 100
 LINE 328 315 317 1320 10 100
 LINE 330 315 317 1320 6 100
 LINE 332 317 411 1300 12 100
 LINE 334 313 327 650 10 100
 LINE 336 327 319 650 10 100
 LINE 338 247 319 1000 8 100
 LINE 340 319 321 1300 8 100
 LINE 342 315 321 1300 6 100
 LINE 344 317 323 1300 6 100
 LINE 346 321 323 1320 8 100
 LINE 348 323 415 1300 8 100
 LINE 350 319 603 650 8 100
 LINE 400 401 403 1300 14 100
 LINE 402 403 419 2700 14 100
 LINE 404 401 407 1300 14 100
 LINE 406 403 409 1300 10 100
 LINE 408 407 409 1300 6 100
 LINE 410 407 411 1300 14 100
 LINE 412 409 413 1300 6 100
 LINE 414 411 413 1300 8 100
 LINE 416 411 415 1300 12 100
 LINE 418 413 417 1300 6 100

LINE 420 415 417 1300 8 100
LINE 422 421 405 8600 12 100
LINE 424 423 405 750 12 100
LINE 426 16 405 600 30 100
LINE 430 419 405 1200 14 100
LINE 500 415 501 1300 10 100
LINE 502 417 503 1300 6 100
LINE 504 501 503 1300 8 100
LINE 506 501 505 1300 12 100
LINE 508 503 507 1300 6 100
LINE 510 505 507 1300 6 100
LINE 512 505 513 1300 12 100
LINE 514 507 511 1300 6 100
LINE 516 509 511 1300 6 100
LINE 518 509 513 200 6 100
LINE 520 513 515 1300 12 100
LINE 522 513 515 1300 6 100
LINE 524 515 517 1300 12 100
LINE 526 515 517 1300 6 100
LINE 528 505 509 1100 6 100
LINE 600 601 603 300 6 100
LINE 602 603 605 650 8 100
LINE 604 321 607 1300 6 100
LINE 606 323 609 1300 6 100
LINE 608 703 605 1300 8 100
LINE 610 605 607 1300 8 100
LINE 612 607 609 1320 8 100
LINE 614 609 501 1300 8 100
LINE 616 605 611 1300 6 100
LINE 618 607 615 1300 6 100
LINE 620 609 617 1300 6 100
LINE 622 711 611 1300 10 100
LINE 624 611 613 550 10 100
LINE 626 613 615 750 10 100
LINE 628 615 617 1320 10 100
LINE 630 617 505 1300 6 100
LINE 632 611 619 650 6 100
LINE 634 613 621 900 8 100
LINE 636 615 623 650 12 100
LINE 638 615 623 650 6 100
LINE 640 617 629 1300 6 100
LINE 642 619 625 650 6 100
LINE 644 623 627 650 12 100
LINE 646 721 625 1300 6 100
LINE 648 625 627 1300 6 100
LINE 650 627 629 1320 6 100
LINE 652 629 631 450 4 100
LINE 654 631 513 850 6 100
LINE 656 625 633 650 6 100
LINE 658 627 635 650 12 100
LINE 660 629 637 450 8 100
LINE 662 631 637 900 8 100
LINE 664 633 647 650 8 100
LINE 666 635 639 650 12 100

LINE 668 637 641 850 8 100
 LINE 670 727 647 1300 12 100
 LINE 672 647 639 1300 12 100
 LINE 674 639 641 1320 12 100
 LINE 676 641 515 1300 6 100
 LINE 678 639 643 1300 12 100
 LINE 680 641 645 1300 12 100
 LINE 682 643 645 1320 12 100
 LINE 684 645 517 1300 12 100
 LINE 686 645 517 1300 6 100
 LINE 688 15 643 6100 12 100
 LINE 690 633 635 1300 8 100
 LINE 692 641 645 1300 6 100
 LINE 694 619 621 300 6 100
 LINE 696 621 623 1000 6 100
 LINE 700 243 701 1300 8 100
 LINE 702 701 703 2650 8 100
 LINE 704 729 703 650 8 100
 LINE 706 701 707 1300 6 100
 LINE 708 703 711 1300 8 100
 LINE 710 705 707 600 8 100
 LINE 712 707 709 1325 8 100
 LINE 714 709 711 1325 8 100
 LINE 716 705 713 500 8 100
 LINE 718 707 717 1300 8 100
 LINE 720 709 717 2100 6 100
 LINE 722 709 719 1000 6 100
 LINE 724 719 711 2400 6 100
 LINE 726 711 721 1300 8 100
 LINE 728 713 715 1000 8 100
 LINE 730 713 731 1000 8 100
 LINE 732 705 733 2600 6 100
 LINE 734 717 723 1400 6 100
 LINE 736 719 725 1400 6 100
 LINE 738 719 721 1400 8 100
 LINE 740 721 727 1300 12 100
 LINE 742 733 723 600 6 100
 LINE 744 723 725 1200 6 100
 LINE 746 725 727 1600 8 100
 LINE 750 729 601 1000 6 100
 LINE 752 733 731 1400 8 100
 LINE 754 715 731 500 8 100
 LINE 800 139 803 1800 12 100
 LINE 802 805 807 1300 12 100
 LINE 804 807 715 1400 8 100
 LINE 808 803 807 1800 12 130

End of File: H90PIP

INCLUDE H90XYZ

NXYZ	1	162	175	1595
NXYZ	2	136	152	1585
NXYZ	3	137	73	1576
NXYZ	4	120	73	1566
NXYZ	6	286	218	1660
NXYZ	7	78	73	1548
NXYZ	8	77	74	1548

NXYZ	9	251	198	1625
NXYZ	11	116	75	1566
NXYZ	15	184	12	1737
NXYZ	16	256	196	1738
NXYZ	18	234	208	1640
NXYZ	23	157	210	1580
NXYZ	101	61	241	1533
NXYZ	103	54	235	1532
NXYZ	105	67	226	1537
NXYZ	107	53	211	1537
NXYZ	109	58	211	1540
NXYZ	111	53	195	1538
NXYZ	113	61	195	1540
NXYZ	115	65	188	1545
NXYZ	117	53	177	1541
NXYZ	119	69	177	1550
NXYZ	121	29	175	1530
NXYZ	123	42	175	1536
NXYZ	125	29	169	1530
NXYZ	127	42	169	1536
NXYZ	129	69	169	1550
NXYZ	131	23	161	1526
NXYZ	133	53	161	1539
NXYZ	135	69	160	1547
NXYZ	137	19	145	1523
NXYZ	139	53	145	1535
NXYZ	141	69	145	1543
NXYZ	143	50	169	1537
NXYZ	145	61	241	1533
NXYZ	147	53	226	1534
NXYZ	201	74	210	1545
NXYZ	203	86	210	1549
NXYZ	205	70	195	1543
NXYZ	207	80	195	1548
NXYZ	209	86	194	1553
NXYZ	211	102	193	1550
NXYZ	213	119	193	1567
NXYZ	215	86	188	1554
NXYZ	217	86	177	1558
NXYZ	219	102	177	1563
NXYZ	221	119	177	1572
NXYZ	223	86	169	1558
NXYZ	225	77	160	1553
NXYZ	227	86	161	1558
NXYZ	229	87	159	1558
NXYZ	231	119	161	1578
NXYZ	233	111	162	1574
NXYZ	235	77	152	1550
NXYZ	237	87	152	1555
NXYZ	239	111	152	1570
NXYZ	241	77	144	1549
NXYZ	243	87	144	1553
NXYZ	245	111	144	1568
NXYZ	247	123	144	1573

NXYZ	249	99	210	1557
NXYZ	251	108	210	1559
NXYZ	253	120	160	1578
NXYZ	255	120	144	1573
NXYZ	301	136	193	1575
NXYZ	303	152	193	1583
NXYZ	305	169	193	1593
NXYZ	307	136	177	1579
NXYZ	309	152	177	1588
NXYZ	311	169	177	1598
NXYZ	313	136	160	1586
NXYZ	315	153	160	1593
NXYZ	317	169	160	1600
NXYZ	319	136	145	1584
NXYZ	321	153	145	1595
NXYZ	323	169	145	1606
NXYZ	325	162	177	1595
NXYZ	327	136	152	1585
NXYZ	401	186	193	1614
NXYZ	403	204	193	1613
NXYZ	405	253	193	1670
NXYZ	407	186	177	1619
NXYZ	409	204	177	1618
NXYZ	411	186	160	1611
NXYZ	413	204	160	1622
NXYZ	415	186	145	1617
NXYZ	417	204	145	1629
NXYZ	419	234	193	1635
NXYZ	421	288	220	1660
NXYZ	423	250	198	1625
NXYZ	501	186	127	1619
NXYZ	503	204	127	1630
NXYZ	505	186	111	1618
NXYZ	507	204	111	1628
NXYZ	509	184	98	1614
NXYZ	511	204	98	1616
NXYZ	513	186	95	1613
NXYZ	515	186	78	1615
NXYZ	517	186	61	1607
NXYZ	601	131	135	1580
NXYZ	603	136	135	1584
NXYZ	605	136	127	1583
NXYZ	607	153	127	1595
NXYZ	609	169	127	1608
NXYZ	611	136	111	1582
NXYZ	613	140	111	1586
NXYZ	615	153	111	1594
NXYZ	617	169	111	1606
NXYZ	619	136	102	1582
NXYZ	621	140	102	1583
NXYZ	623	153	102	1593
NXYZ	625	136	95	1581
NXYZ	627	153	95	1592
NXYZ	629	169	95	1603

NXYZ	631	176	95	1606
NXYZ	633	136	86	1579
NXYZ	635	153	86	1591
NXYZ	637	169	86	1602
NXYZ	639	153	78	1589
NXYZ	641	169	78	1601
NXYZ	643	153	61	1588
NXYZ	645	169	61	1602
NXYZ	647	136	78	1577
NXYZ	701	86	127	1551
NXYZ	703	119	127	1572
NXYZ	705	78	111	1546
NXYZ	707	86	111	1550
NXYZ	709	103	111	1559
NXYZ	711	119	111	1571
NXYZ	713	74	106	1545
NXYZ	715	71	97	1543
NXYZ	717	86	95	1550
NXYZ	719	103	96	1558
NXYZ	721	119	94	1572
NXYZ	723	85	77	1550
NXYZ	725	100	77	1558
NXYZ	727	119	77	1567
NXYZ	729	119	135	1572
NXYZ	731	78	95	1545
NXYZ	733	78	77	1548
NXYZ	735	74	106	1545
NXYZ	801	69	133	1541
NXYZ	803	53	121	1534
NXYZ	805	53	79	1533
NXYZ	807	53	97	1533

End of File: H90XYZ

INCLUDE H90PMP

LINE 1 1 325 PUMP 1
 LINE 2 2 327 PUMP 2
 LINE 3 3 647 PUMP 3
 LINE 4 4 727 PUMP 4
 LINE 6 6 421 PUMP 6
 LINE 7 7 733 PUMP 7
 LINE 8 8 733 PUMP 8
 LINE 9 9 423 PUMP 9
 LINE 11 11 727 PUMP 11

* THE FOLLOWING ARE PUMP CURVES FOR ALL WELLS PUMPING INTO THE SYSTEM .ignored
 * WELL # 1 .ignored
 PUMP CURVE 1 FT GPM .ignored

260 1200
 495 700
 685 0

* WELL # 2 .ignored
 PUMP CURVE 2 FT GPM

268 1080
 416 650
 536 0

```

* WELL # 3 .ignored
PUMP CURVE 3 FT GPM
    286 1540
    594 990
    825 0
* WELL # 4 .ignored
PUMP CURVE 4 FT GPM
    204 830
    468 560
    696 0
* WELL # 5 NOT USED .ignored
* WELL # 6 .ignored
PUMP CURVE 6 FT GPM
    320 1080
    640 700
    880 0
* WELL # 7 .ignored
PUMP CURVE 7 FT GPM
    220 1080
    440 700
    605 0
* WELL # 8 .ignored
PUMP CURVE 8 FT GPM
    221 830
    507 560
    754 0
* WELL # 9 .ignored
PUMP CURVE 9 FT GPM
    360 1740
    708 1210
    876 0
* WELL # 10 NOT USED .ignored
* WELL # 11 .ignored
PUMP CURVE 11 FT GPM
    114 700
    462 490
    504 299
    510 0
* WELL # 23 NOT USED .ignored
    
```

End of File: H90PMP

```

INCLUDE H90HGL
! BEL'S FOR SUCTION SIDE OF PUMPS, HGL OF DRAWDOWN .ignored
BEL FT 1 1335
BEL FT 2 1315
BEL FT 3 1314
BEL FT 4 1309
BEL FT 6 1152
BEL FT 7 1304
BEL FT 8 1321
BEL FT 9 1250
BEL FT 11 1319
    
```

End of File: H90HGL

```

BEL 15 1757 16 1757
INCLUDE H108Q
* THE FOLLOWING DEMANDS AT NODES WERE CALCULATED BY APPROXIMATE AREA T .ignored
* NODE FROM THE ZONING ID NUMBERS .ignored
* 2010 DEMANDS * .ignored
    
```

BQ GPM 101 14.62
BQ GPM 103 14.62
BQ GPM 105 29.24
BQ GPM 107 3.78
BQ GPM 109 15.58
BQ GPM 111 15.58
BQ GPM 113 15.58
BQ GPM 115 22.26
BQ GPM 117 34.57
BQ GPM 119 29.74
BQ GPM 121 7.05
BQ GPM 123 12.57
BQ GPM 125 7.05
BQ GPM 127 7.05
BQ GPM 129 20.10
BQ GPM 131 36.33
BQ GPM 133 51.49
BQ GPM 135 8.99
BQ GPM 137 100.16
BQ GPM 139 69.03
BQ GPM 141 35.61
BQ GPM 201 15.58
BQ GPM 203 11.93
BQ GPM 205 22.26
BQ GPM 207 15.58
BQ GPM 209 17.29
BQ GPM 211 62.23
BQ GPM 213 72.38
BQ GPM 215 27.84
BQ GPM 217 78.55
BQ GPM 219 140.05
BQ GPM 221 74.44
BQ GPM 223 57.18
BQ GPM 225 4.50
BQ GPM 227 17.34
BQ GPM 229 11.76
BQ GPM 231 19.26
BQ GPM 233 26.77
BQ GPM 235 13.28
BQ GPM 237 11.76
BQ GPM 239 39.27
BQ GPM 241 16.05
BQ GPM 243 30.59
BQ GPM 245 58.21
BQ GPM 247 13.84
BQ GPM 249 17.88
BQ GPM 251 17.88
BQ GPM 301 22.54
BQ GPM 303 16.87
BQ GPM 305 38.33
BQ GPM 307 86.76
BQ GPM 309 49.87
BQ GPM 311 90.71
BQ GPM 313 44.80

BQ GPM 315 47.29
BQ GPM 317 43.50
BQ GPM 319 35.39
BQ GPM 321 90.64
BQ GPM 323 76.79
BQ GPM 401 37.64
BQ GPM 403 12.99
BQ GPM 407 7.67
BQ GPM 409 63.74
BQ GPM 411 20.83
BQ GPM 413 5.77
BQ GPM 415 51.68
BQ GPM 417 28.66
BQ GPM 501 51.11
BQ GPM 503 29.71
BQ GPM 505 69.53
BQ GPM 507 25.52
BQ GPM 509 11.72
BQ GPM 513 11.72
BQ GPM 515 11.72
BQ GPM 517 11.72
BQ GPM 601 18.33
BQ GPM 603 42.28
BQ GPM 605 28.99
BQ GPM 607 63.04
BQ GPM 609 65.86
BQ GPM 611 62.83
BQ GPM 613 5.08
BQ GPM 615 49.14
BQ GPM 617 44.01
BQ GPM 623 11.72
BQ GPM 625 11.80
BQ GPM 627 25.23
BQ GPM 629 36.35
BQ GPM 631 36.35
BQ GPM 633 70.79
BQ GPM 635 30.04
BQ GPM 637 36.35
BQ GPM 639 12.51
BQ GPM 641 36.35
BQ GPM 645 11.72
BQ GPM 647 4.28
BQ GPM 701 56.76
BQ GPM 703 49.29
BQ GPM 705 123.95
BQ GPM 707 45.22
BQ GPM 709 22.78
BQ GPM 711 81.18
BQ GPM 713 58.20
BQ GPM 715 34.42
BQ GPM 717 36.37
BQ GPM 719 40.28
BQ GPM 721 30.91
BQ GPM 723 36.37

BQ GPM 725 13.43
 BQ GPM 727 14.62
 BQ GPM 729 49.28
 BQ GPM 731 34.41
 BQ GPM 801 29.98
 BQ GPM 803 112.82
 BQ GPM 805 109.12
 BQ GPM 807 109.12
 BQM 1.0989309 ALL

End of File: H10BQ

BQM 4 ALL

INCLUDE H95EPK

INCLUDE H90EPK

* THE FOLLOWING ARE EMWD CONNECTIONS USED DURING PEAK HOURLY

.ignored

* AND MAX DAYFLOW

.ignored

* EMWD WELL #23 -- ABOUT 650 GPM

.ignored

LINE 352 23 303 CV 1200 8 110

NXYZ 23 157 210 1580

---NEW COORD FOR NODE 23

BH PSI 23 65

* CHANGE TO INFLOW OF 650 GPM

.ignored

BQ 23 -650

---NEW BNDRY COND FOR NODE 23

* EMWD FRUITVALE CONNECTION

.ignored

LINE 428 18 419 CV 2800 8 110

NXYZ 18 234 208 1640

---NEW COORD FOR NODE 18

BH PSI 18 65

* CHANGE TO INFLOW OF 800 GPM

.ignored

BQ 18 -800

---NEW BNDRY COND FOR NODE 18

* THE EMWD 30" CONNECTION AT PARK HILL IS USED TO MAINTAIN WATER

.ignored

* LEVELS IN THE PARK HILL TANKS

.ignored

End of File: H90EPK

End of File: H95EPK

INCLUDE H95IMP

* 1995 IMPROVEMENTS

.ignored

LINE 158 117 143 750 12 130

LINE 160 133 143 750 12 130

LINE 164 127 143 600 8 130

LINE 166 107 147 1300 10 130

* REDEFINE LINE 104 TO 104 & 168

.ignored

LINE 104 147 105 1300 8 110

---NEW LINE SPEC

LINE 168 147 103 800 8 110

NXYZ 147 53 226 1534

---NEW COORD FOR NODE 147

.ignored

LINE 254 229 253 2700 12 110

---NEW LINE SPEC

LINE 280 245 255 700 8 110

---NEW LINE SPEC

LINE 290 253 255 1300 10 130

LINE 292 255 729 700 10 130

LINE 294 253 313 1300 12 110

LINE 296 255 247 300 8 110

LINE 356 301 303 1300 10 130

 LINE 354 303 305 1300 10 130

* 16 INCH NEW MAIN TO PARK HILL TANKS IN NE

.ignored
 .ignored
 .ignored

LINE 432 405 409 5200 16 130
 LINE 434 409 413 1300 16 130
 LINE 436 411 413 1300 16 130

* REDEFINE LINE 688 TO 3000 FT IN PARALLEL WITH NEW 18 INCH
 LINE 688 15 1115 3000 12 100

.ignored
 .ignored

* NEW 18 INCH TO ECHO HILL IN SE
 LINE 698 15 1115 3000 18 130
 LINE 1698 1115 639 3400 18 130
 NXYZ 1115 165 45 1663

---NEW LINE SPEC
 .ignored

LINE 756 727 733 3400 12 130
 LINE 806 733 805 1800 12 130

.ignored

NXYZ 143 50 169 1537

.ignored

NXYZ 145 61 241 1533

---NEW COORD FOR NODE 143

NXYZ 255 120 144 1573

---NEW COORD FOR NODE 145

NXYZ 253 120 160 1578

---NEW COORD FOR NODE 255

NXYZ 735 74 106 1545

---NEW COORD FOR NODE 253

* TWO NEW WELLS -- USE PUMP CURVE 7 FOR NOW

---NEW COORD FOR NODE 735
 .ignored

LINE 156 145 101 PUMP 7

BEL 145 1313 735 1320

LINE 758 735 713 PUMP 7

* INCLUDE H95IMP.ALT -- INCLUDE ALTERNATIVE IMPROVEMENTS

.ignored

End of File: H95IMP

SID 2010.IMP
 BID MULT=4.0
 GO MOND MGD

Solving for 134 unknowns, 1/2 bandwidth = 17, matrix storage = 2276

If PMP appears after Max. Corr., then at least one pump is operating out of range

Iter	Node	Max. Corr.	Limit Corr.	Time
1	421	0.663378E+03	PMP 100.00000	14:26:47
2	405	-0.457952E+03	PMP 100.00000	14:26:48
3	421	0.336675E+03	PMP 100.00000	14:26:49
4	405	-0.273833E+03	60.00000	14:26:50
5	421	-0.206727E+02	36.00000	14:26:50
6	405	0.160075E+02	20.67269	14:26:51
7	631	-0.315364E+01	12.40362	14:26:52
8	321	-0.235237E+01	2.52291	14:26:53
9	307	0.391804E+00	2.35237	14:26:54
10	231	0.193299E+00	0.31344	14:26:54
11	513	0.739704E-02	0.19330	14:26:55
12	631	-0.183963E-02	0.00740	14:26:56
13	401	0.324303E-05	0.00184	14:26:57