



BURNSIDE

City of Owen Sound
East Owen Sound Master Servicing Study
Volume I
Water and Wastewater Servicing

Appendices D and E

Prepared by

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December 2007

File No: MCG 10665

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Appendix D1
Existing WaterCAD Output



BURNSIDE

2005 – Average Day Demand (ADD)

2005 - Average Day Demand (ADD)

Scenario Summary

<General>

Scenario Id	86
Scenario Label	9 - 2005 - ADD
Scenario Notes	Created: 10/31/06 07:59:57 AM
Calculation Options ID	66
Calculation Options Label	9 - 2005 - ADD
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives

Active Topology	23: Base-Active Topology
Physical	27: Base-Physical-EP-2-CS
Demand	1907: 2005 Modified
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags

Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

2005 - Average Day Demand (ADD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	1.3567	74.2	299.2
J-3	East Hill Pressure Zone	245.7	0.9144	76.1	299.3
J-4	East Hill Pressure Zone	243.8	1.1211	79.5	299.8
J-5	East Hill Pressure Zone	242.2	1.2533	81.6	299.7
J-6	East Hill Pressure Zone	238.3	1.1062	86.8	299.4
J-7	East Hill Reduced Pressure Zone	225.4	0.9293	45.8	257.7
J-8	East Hill Pressure Zone	243.6	0.0000	79.2	299.4
J-9	East Hill Pressure Zone	238.3	0.0885	86.8	299.4
J-10	East Hill Pressure Zone	227.6	0.3389	101.8	299.3
J-11	East Hill Pressure Zone	229.9	0.3687	98.4	299.2
J-12	East Hill Pressure Zone	234.1	0.6192	92.3	299.1
J-13	East Hill Pressure Zone	235.8	0.4721	89.9	299.1
J-14	East Hill Pressure Zone	243.2	0.0000	79.4	299.1
J-15	East Hill Pressure Zone	229.0	0.0000	99.5	299.1
J-16	East Hill Pressure Zone	240.0	2.4192	83.8	299.1
J-17	East Hill Pressure Zone	243.0	0.0000	79.6	299.1
J-18	East Hill Pressure Zone	229.0	0.0000	100.4	299.7
J-19	East Hill Pressure Zone	234.8	0.2067	90.6	298.6
J-20	East Hill Reduced Pressure Zone	226.2	0.6928	45.0	257.9
J-21	East Hill Pressure Zone	247.0	0.5606	73.2	298.5
J-22	East Hill Pressure Zone	234.6	4.0264	89.1	297.3
J-23	East Hill Reduced Pressure Zone	227.7	0.7822	43.1	258.1
J-24	East Hill Pressure Zone	246.0	1.5784	72.9	297.3
J-25	East Hill Pressure Zone	258.2	0.9880	55.5	297.3
J-26	East Hill Pressure Zone	264.3	0.3986	46.8	297.3
J-27	East Hill Pressure Zone	255.1	0.0000	59.9	297.3
J-28	East Hill Pressure Zone	273.5	0.8379	33.7	297.2
J-29	East Hill Pressure Zone	234.6	0.4870	89.0	297.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	0.6490	47.4	257.5
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	43.7	257.5
J-32	East Hill Reduced Pressure Zone	216.7	1.7404	57.8	257.4
J-33	East Hill Reduced Pressure Zone	218.1	2.3009	55.7	257.4
J-34	East Hill Reduced Pressure Zone	216.3	0.5019	58.4	257.4
J-35	East Hill Reduced Pressure Zone	216.7	1.3716	58.0	257.6
J-36	East Hill Reduced Pressure Zone	217.6	0.6490	56.7	257.6
J-37	East Hill Reduced Pressure Zone	214.6	1.1798	61.0	257.6
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	61.7	257.6
J-39	East Hill Reduced Pressure Zone	214.4	1.9620	61.4	257.7
J-40	East Hill Reduced Pressure Zone	217.2	0.9293	57.5	257.7
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	58.6	257.6
J-42	East Hill Reduced Pressure Zone	217.1	0.7077	57.6	257.7
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	56.2	257.6
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	50.6	257.6
J-45	East Hill Reduced Pressure Zone	223.0	0.1620	49.2	257.7
J-46	East Hill Reduced Pressure Zone	219.2	0.1620	54.6	257.7
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	45.8	257.8
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	45.6	257.8
J-49	East Hill Reduced Pressure Zone	217.8	0.9293	56.7	257.7
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	56.7	257.8
J-51	East Hill Reduced Pressure Zone	220.0	1.2832	53.6	257.8
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	44.3	257.8
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	43.2	257.8
J-54	East Hill Reduced Pressure Zone	216.7	0.6928	58.2	257.7
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	59.3	257.7
J-56	East Hill Reduced Pressure Zone	214.8	0.3101	60.9	257.7
J-57	East Hill Reduced Pressure Zone	211.3	0.2803	65.8	257.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.2803	61.2	257.7
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	48.1	257.7
J-60	East Hill Reduced Pressure Zone	221.3	0.9293	51.7	257.7
J-61	Non-Supply	242.2	0.0000	7.7	247.7
J-64	Non-Supply	238.3	0.0000	13.4	247.8
J-65	Non-Supply	226.6	0.0000	30.8	248.3
J-66	Municipal	213.8	1.1620	50.3	249.2
J-67	Municipal	183.6	0.0000	94.5	250.2
J-68	Municipal	215.8	0.1748	47.3	249.1
J-69	Municipal	216.1	0.5000	47.6	249.6
J-70	Municipal	215.7	0.4882	48.3	249.7
J-71	Municipal	215.8	0.3428	48.2	249.8
J-72	Municipal	213.7	0.3733	51.3	249.8
J-73	Municipal	210.7	0.1748	55.7	249.9
J-74	Municipal	211.3	0.3674	55.2	250.2
J-75	Municipal	213.6	0.3310	51.8	250.1
J-76	Municipal	211.3	0.0000	55.3	250.3
J-77	Municipal	211.7	0.1267	54.7	250.3
J-78	Municipal	213.1	0.4577	52.8	250.3
J-79	Municipal	214.3	0.4695	50.8	250.1
J-80	Municipal	215.6	0.4813	48.5	249.8
J-81	Industrial	217.1	0.2959	81.4	274.5
J-82	Municipal	217.1	0.3497	46.4	249.8
J-83	Municipal	217.7	0.0000	45.6	249.8
J-84	Municipal	216.7	0.0000	47.1	249.9
J-85	Municipal	216.6	0.0000	48.0	250.4
J-86	Municipal	217.6	0.0000	46.6	250.5
J-87	Municipal	214.6	0.9449	51.0	250.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.2770	49.6	250.6
J-90	Municipal	216.3	0.3909	48.6	250.6
J-91	Municipal	215.8	0.2770	48.9	250.3
J-92	Municipal	214.2	0.3733	51.6	250.5
J-93	Municipal	214.2	0.3850	51.2	250.3
J-94	Municipal	213.3	0.2230	52.8	250.5
J-95	Municipal	180.6	0.6385	99.0	250.4
J-96	Municipal	180.6	0.0000	99.0	250.4
J-97	Municipal	188.7	0.0000	89.0	251.4
J-98	Municipal	190.2	0.0000	86.5	251.2
J-99	Municipal	187.7	0.4332	90.1	251.2
J-100	Municipal	202.4	0.2112	69.0	251.0
J-101	Municipal	204.0	0.0000	66.7	251.0
J-102	Municipal	201.4	0.2112	70.3	250.9
J-103	Municipal	205.6	0.2112	64.3	250.9
J-104	Municipal	180.2	0.0000	99.3	250.2
J-105	Municipal	179.8	0.0000	99.9	250.1
J-106	Municipal	184.1	0.0000	93.8	250.1
J-107	Municipal	182.6	0.0000	95.9	250.1
J-109	East Hill Pressure Zone	226.7	0.0000	100.2	297.3
J-115	Municipal	182.6	0.0000	95.9	250.1
J-116	Municipal	188.2	0.0000	87.9	250.1
J-117	Municipal	189.0	0.0363	86.7	250.1
J-118	Municipal	217.2	0.3497	46.7	250.1
J-119	Municipal	218.6	0.0000	44.7	250.1
J-120	Municipal	217.2	0.2407	46.7	250.1
J-121	Municipal	217.4	0.5235	46.4	250.1
J-122	East Hill Pressure Zone	238.0	0.0000	86.7	299.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	2.3009	83.8	299.1
J-124	Municipal	217.0	0.2947	47.0	250.1
J-125	Municipal	217.0	0.1925	47.0	250.1
J-126	Municipal	216.6	0.1503	47.6	250.1
J-127	Municipal	216.1	0.4391	48.3	250.1
J-128	Municipal	215.3	0.0000	49.4	250.1
J-129	Municipal	212.6	0.0304	53.2	250.1
J-130	Municipal	213.1	0.1562	52.5	250.1
J-131	Municipal	213.6	0.4037	51.8	250.1
J-132	Municipal	213.8	0.5658	51.5	250.1
J-133	Municipal	211.7	0.3369	54.5	250.1
J-134	Municipal	213.6	0.5000	51.8	250.1
J-135	Municipal	211.6	0.0658	54.7	250.1
J-136	Municipal	210.8	0.1925	55.8	250.1
J-137	Municipal	211.4	0.4577	54.9	250.1
J-138	Municipal	211.2	2.1315	55.2	250.1
J-139	Municipal	214.7	0.6267	50.2	250.1
J-140	Municipal	211.8	0.3310	54.3	250.1
J-141	Municipal	212.6	0.0000	53.2	250.1
J-142	Municipal	210.7	0.3792	55.9	250.1
J-143	Municipal	209.8	0.6561	57.2	250.1
J-144	Municipal	211.2	0.3369	55.2	250.1
J-145	Municipal	209.7	0.8487	57.4	250.1
J-146	Municipal	210.2	1.0962	56.6	250.1
J-147	Municipal	209.0	1.1925	58.3	250.1
J-148	Municipal	181.6	0.0000	97.2	250.1
J-149	Municipal	180.4	0.0000	99.0	250.1
J-150	Municipal	177.7	0.0000	102.8	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.1925	101.8	250.1
J-152	Municipal	178.7	0.0000	101.3	250.1
J-153	Municipal	179.6	0.0000	100.1	250.1
J-154	Municipal	178.9	0.1326	101.0	250.1
J-155	Municipal	190.6	1.3850	84.4	250.1
J-156	Municipal	179.4	0.2112	100.3	250.1
J-157	Municipal	178.6	0.2112	101.5	250.1
J-158	Municipal	186.2	0.3733	90.7	250.1
J-159	Municipal	179.6	0.2770	100.1	250.1
J-160	Municipal	187.8	1.3673	88.4	250.1
J-161	Municipal	184.1	0.0000	93.7	250.1
J-162	Municipal	178.3	0.0000	101.9	250.1
J-163	Municipal	187.1	0.0000	89.4	250.1
J-164	Municipal	189.6	1.2583	85.8	250.1
J-165	Municipal	189.8	0.1444	85.5	250.1
J-166	Municipal	189.4	0.0963	86.1	250.1
J-167	Municipal	196.8	0.1807	75.6	250.1
J-168	Municipal	199.6	0.0000	71.6	250.1
J-169	Municipal	204.1	0.0000	65.2	250.1
J-170	Municipal	202.2	0.2947	67.9	250.1
J-171	Municipal	194.7	0.1139	78.6	250.1
J-172	Municipal	190.1	0.1444	85.1	250.1
J-173	Municipal	187.7	0.0000	88.6	250.1
J-176	East Hill Pressure Zone	240.0	0.0000	83.8	299.1
J-177	East Hill Pressure Zone	239.0	2.3009	85.3	299.1
J-178	Municipal	180.6	0.0000	98.6	250.1
J-179	Municipal	202.2	0.0000	68.0	250.1
J-180	Municipal	211.5	0.0000	54.8	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	101.8	250.1
J-182	Municipal	178.1	0.0000	102.2	250.1
J-183	Municipal	178.1	0.0000	102.2	250.1
J-184	Municipal	178.7	0.0000	101.4	250.1
J-185	Municipal	182.1	0.0000	96.5	250.1
J-186	Municipal	187.8	0.0000	88.4	250.1
J-187	Municipal	195.4	0.0000	77.6	250.1
J-188	Municipal	187.3	0.0000	89.1	250.1
J-189	Municipal	188.2	0.0000	87.8	250.1
J-190	Municipal	190.1	0.0000	85.1	250.1
J-191	Municipal	191.7	0.0000	82.9	250.1
J-192	Municipal	202.6	0.0000	67.4	250.1
J-193	Municipal	185.3	0.3978	91.9	250.1
J-194	Municipal	200.0	0.0000	71.1	250.1
J-195	Municipal	201.6	0.6267	68.8	250.0
J-196	Municipal	202.6	0.7946	67.3	250.0
J-197	Municipal	205.1	0.0000	63.8	250.0
J-198	Municipal	200.6	0.0000	70.2	250.0
J-199	Municipal	199.2	0.2770	72.2	250.0
J-200	Municipal	201.6	0.5599	68.8	250.0
J-201	Municipal	203.9	0.0000	65.5	250.0
J-202	Municipal	204.2	0.0000	65.0	250.0
J-203	Municipal	186.6	0.0481	90.0	250.0
J-204	Municipal	186.1	0.3791	90.7	250.0
J-205	Municipal	182.1	0.2112	96.4	250.0
J-206	Municipal	178.8	0.0000	101.1	250.0
J-208	Municipal	188.1	0.1139	87.9	250.0
J-209	Municipal	188.3	0.0000	87.6	250.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	75.6	250.0
J-211	Municipal	185.2	0.0000	92.0	250.0
J-212	Municipal	183.8	0.3674	94.0	250.0
J-213	Municipal	182.7	0.0000	95.6	250.0
J-214	Municipal	185.6	0.0000	91.4	250.0
J-215	Municipal	186.8	0.1631	89.7	250.0
J-216	Municipal	186.1	0.3556	90.7	250.0
J-217	Municipal	220.4	0.0540	42.2	250.1
J-219	Municipal	218.5	0.0000	44.9	250.1
J-220	Municipal	220.5	0.0000	42.0	250.1
J-223	Spring	188.2	0.0000	58.5	229.4
J-224	Spring	187.3	0.0000	59.8	229.4
J-225	Spring	186.7	0.3428	60.7	229.4
J-226	Spring	185.9	0.5844	61.8	229.4
J-227	Spring	186.1	0.2652	61.5	229.4
J-228	Spring	186.6	0.3733	60.8	229.4
J-229	Spring	186.6	0.5776	60.8	229.4
J-230	Spring	187.4	0.2407	59.7	229.4
J-231	Spring	189.6	0.4096	56.6	229.4
J-232	Spring	186.1	0.5776	61.5	229.4
J-233	Spring	186.4	0.4391	61.1	229.4
J-234	Spring	188.7	0.3792	57.8	229.4
J-235	Spring	194.3	0.0000	49.9	229.4
J-236	Spring	184.1	0.3733	64.4	229.4
J-237	Spring	185.6	0.2829	62.2	229.5
J-238	Spring	187.2	0.3791	60.0	229.5
J-239	Spring	190.1	0.2407	55.9	229.5
J-240	Spring	182.1	0.3674	67.3	229.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	0.3850	66.6	229.5
J-242	Spring	183.6	0.3133	65.2	229.5
J-243	Spring	185.7	0.6748	62.1	229.5
J-244	Spring	187.9	0.3133	59.0	229.5
J-245	Spring	180.1	0.0000	70.2	229.5
J-246	Spring	180.2	0.3791	70.1	229.6
J-247	Spring	181.2	0.0963	68.7	229.6
J-248	Spring	182.2	0.0422	67.3	229.6
J-249	Spring	185.6	0.3497	62.4	229.6
J-250	Spring	179.9	0.0000	70.8	229.8
J-251	Spring	181.6	0.0000	68.4	229.8
J-252	Spring	183.6	1.0903	65.6	229.8
J-253	Spring	180.1	0.0845	70.9	230.0
J-254	Spring	183.9	0.4577	65.5	230.0
J-255	Spring	178.2	0.4155	74.2	230.5
J-256	Spring	184.1	0.5844	65.5	230.3
J-257	Spring	188.3	0.5599	59.5	230.2
J-258	Spring	182.8	0.2770	67.8	230.6
J-259	Spring	190.6	0.2171	56.6	230.5
J-260	Spring	183.8	0.6866	66.3	230.5
J-261	Spring	190.1	0.0000	57.4	230.5
J-262	Spring	180.6	0.0481	70.9	230.5
J-263	Spring	179.8	0.2043	70.4	229.4
J-264	Spring	182.6	0.5000	66.5	229.4
J-265	Spring	181.8	0.0000	67.5	229.3
J-267	Spring	182.6	0.2524	66.2	229.2
J-268	Spring	184.6	0.1208	63.3	229.2
J-269	Spring	181.3	1.8181	68.0	229.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.2043	69.4	229.3
J-271	Spring	180.8	0.5363	68.7	229.2
J-272	Spring	179.8	0.8192	70.1	229.2
J-273	Spring	179.6	0.0000	70.5	229.2
J-274	Spring	178.8	1.3486	71.6	229.2
J-275	Spring	180.1	0.2829	69.7	229.2
J-276	Spring	179.8	0.2947	70.1	229.2
J-277	Spring	179.1	0.2524	71.1	229.2
J-278	Spring	178.8	1.4989	71.5	229.2
J-279	Spring	177.9	0.0000	72.8	229.2
J-280	Spring	179.5	0.0000	70.5	229.2
J-281	Spring	178.8	0.0000	71.5	229.2
J-282	Spring	186.1	0.3850	61.2	229.2
J-283	Spring	182.6	1.0058	66.1	229.2
J-284	Spring	179.4	0.4096	70.7	229.2
J-285	Spring	179.2	0.2289	71.0	229.2
J-286	Spring	178.9	0.0000	71.4	229.2
J-287	Spring	178.6	0.0000	71.8	229.2
J-288	Spring	178.4	0.6807	72.1	229.2
J-289	Spring	177.9	0.0000	72.8	229.2
J-291	Industrial	189.3	0.0000	121.0	274.6
J-292	Industrial	183.5	6.4193	129.2	274.5
J-293	Industrial	201.7	0.0000	103.4	274.6
J-294	Industrial	211.4	0.0000	89.6	274.5
J-295	Industrial	214.4	0.0000	85.3	274.5
J-296	Industrial	218.6	1.5856	79.3	274.5
J-297	Industrial	214.4	0.0000	85.3	274.5
J-298	Industrial	214.2	0.0000	85.6	274.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	1.5856	84.7	274.5
J-300	Industrial	213.8	0.3109	86.2	274.5
J-301	Industrial	214.6	0.0000	85.0	274.5
J-302	Industrial	214.8	7.0261	84.7	274.5
J-303	Industrial	218.6	0.0000	79.3	274.5
J-304	Industrial	222.8	9.8343	73.3	274.4
J-305	Industrial	220.7	0.0000	76.3	274.5
J-306	Industrial	226.2	0.0000	68.5	274.5
J-307	Industrial	219.6	0.0000	77.9	274.5
J-308	Industrial	225.8	0.0000	69.1	274.5
J-309	Industrial	216.7	3.9759	82.0	274.5
J-310	Industrial	217.1	0.0000	81.4	274.5
J-311	Industrial	218.2	0.3109	79.9	274.5
J-312	Industrial	218.0	0.3109	80.2	274.5
J-313	Industrial	220.3	0.0000	76.9	274.5
J-314	Industrial	221.3	0.0000	75.5	274.5
J-315	Industrial	218.7	0.3109	79.2	274.5
J-316	Industrial	217.1	0.2499	81.4	274.5
J-317	Industrial	218.7	0.1210	79.2	274.5
J-318	Industrial	220.4	0.0000	76.8	274.5
J-319	Industrial	219.4	0.2499	78.2	274.5
J-320	Industrial	219.8	0.1819	77.6	274.5
J-321	Industrial	222.4	0.1819	73.9	274.5
J-322	Industrial	224.3	0.1819	71.2	274.5
J-323	Industrial	221.4	0.1210	75.3	274.5
J-324	Industrial	220.6	0.1210	76.5	274.5
J-325	Industrial	226.6	0.1210	68.0	274.5
J-326	Municipal	189.3	0.0000	86.3	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	93.0	250.1
J-328	Municipal	178.4	0.0000	102.7	250.8
J-329	Municipal	211.7	0.0000	55.4	250.8
J-330	Municipal	211.8	0.0000	55.3	250.7
J-331	Municipal	214.6	0.0000	51.3	250.7
J-332	Municipal	213.4	0.0000	53.0	250.7
J-333	Spring	178.7	0.0000	73.2	230.3
J-334	Spring	178.2	0.0000	74.3	230.5
J-335	East Hill Pressure Zone	245.9	0.0000	76.0	299.5
J-336	East Hill Pressure Zone	240.2	0.0000	84.0	299.4
J-337	East Hill Pressure Zone	250.6	0.0000	68.9	299.1
J-338	East Hill Pressure Zone	236.0	0.0000	89.6	299.1
J-339	Industrial	219.6	0.0000	77.9	274.5
J-340	Industrial	218.2	0.0000	79.9	274.5
J-341	Municipal	210.6	0.0000	56.1	250.1
J-342	Municipal	211.1	0.0000	55.4	250.1
J-343	Municipal	181.1	0.0000	97.9	250.1
J-344	Municipal	187.5	0.0000	88.8	250.1
J-345	Municipal	189.1	0.0000	86.6	250.1
J-346	Municipal	188.1	0.0000	88.0	250.1
J-347	Municipal	209.6	0.0000	57.5	250.1
J-348	Municipal	206.3	0.0000	62.1	250.1
J-349	Municipal	189.2	0.0000	86.4	250.1
J-351	Municipal	209.5	0.0000	57.6	250.1
J-353	Municipal	216.5	0.0000	47.7	250.1
J-354	Municipal	217.0	0.0000	47.0	250.1
J-355	Municipal	212.0	0.0000	54.1	250.1
J-356	Municipal	200.0	0.0000	71.1	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	71.1	250.1
J-358	Municipal	200.0	0.0000	71.1	250.1
J-359	Municipal	200.0	0.0000	71.1	250.1
J-360	Municipal	202.0	0.0000	68.3	250.1
J-361	Municipal	201.0	0.0000	69.7	250.1
J-362	Municipal	199.0	0.0000	72.5	250.1
J-363	Municipal	205.5	0.0000	63.3	250.1
J-364	Municipal	205.0	0.0000	64.0	250.1
J-366	Municipal	180.0	0.0000	99.5	250.1
J-367	Municipal	185.0	0.0000	92.4	250.1
J-368	Municipal	180.0	0.0000	99.5	250.1
J-369	Municipal	195.0	0.0000	78.2	250.1
J-370	Municipal	195.0	0.0000	78.2	250.1
J-371	Municipal	210.0	0.0000	56.9	250.1
J-372	Municipal	207.5	0.0000	60.4	250.1
J-373	Municipal	200.0	0.0000	71.1	250.1
J-374	Municipal	208.0	0.0000	59.7	250.1
J-375	Municipal	208.0	0.0000	59.7	250.1
J-376	Municipal	205.0	0.0000	64.0	250.1
J-377	Municipal	203.5	0.0000	66.1	250.1
J-378	Municipal	203.5	0.0000	66.1	250.1
J-381	Municipal	180.0	0.0000	99.4	250.0
J-382	Municipal	180.0	0.0000	99.4	250.0
J-383	Municipal	178.0	0.0000	102.3	250.1
J-384	Municipal	185.0	0.0000	92.4	250.1
J-385	Municipal	185.0	0.0000	92.4	250.1
J-386	Spring	185.0	0.0000	62.7	229.2
J-387	Spring	180.5	0.0000	69.1	229.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	62.7	229.2
J-389	Spring	185.0	0.0000	62.8	229.2
J-390	Spring	185.0	0.0000	62.8	229.2
J-391	Spring	185.0	0.0000	62.8	229.2
J-392	Municipal	210.0	0.0000	56.9	250.1
J-393	Municipal	206.0	0.0000	62.6	250.1
J-394	Municipal	210.0	0.0000	56.9	250.1
J-395	Municipal	209.8	0.0000	57.2	250.1
J-396	Municipal	206.0	0.0000	62.6	250.1
J-397	Municipal	213.0	0.0000	52.6	250.1
J-398	Municipal	214.0	0.0000	51.2	250.1
J-400	Municipal	220.0	0.0000	42.7	250.1
J-401	Municipal	207.5	0.0000	60.4	250.1
J-402	Municipal	207.5	0.0000	60.4	250.1
J-403	Municipal	214.5	0.0000	50.5	250.1
J-404	Municipal	216.0	0.0000	48.4	250.1
J-405	Municipal	220.0	0.0000	42.7	250.1
J-406	Municipal	210.5	0.0000	56.2	250.1
J-407	Municipal	205.0	0.0000	64.0	250.1
J-408	Municipal	210.0	0.0000	56.9	250.1
J-409	Municipal	212.5	0.0000	53.4	250.1
J-410	Municipal	212.0	0.0000	54.1	250.1
J-411	Municipal	215.0	0.0000	49.8	250.1
J-412	Municipal	214.3	0.0000	50.8	250.1
J-413	Municipal	216.0	0.0000	48.4	250.1
J-414	Municipal	214.5	0.0000	50.5	250.1
J-415	Municipal	213.1	0.0000	52.5	250.1
J-416	Municipal	218.0	0.0000	45.6	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	45.6	250.1
J-418	Municipal	218.0	0.0000	45.6	250.1
J-419	Municipal	218.0	0.0904	45.6	250.1
J-420	Municipal	218.0	0.0000	45.6	250.1
J-421	Municipal	216.0	0.0000	48.4	250.1
J-422	Municipal	216.0	0.0000	48.4	250.1
J-423	Municipal	215.0	0.0000	49.8	250.1
J-424	Municipal	210.0	0.0000	56.9	250.1
J-425	Spring	186.0	0.0000	61.7	229.4
J-426	Municipal	181.5	0.0000	97.4	250.1
J-428	Spring	186.0	0.0000	61.7	229.4
J-429	Spring	185.0	0.0000	63.1	229.4
J-430	Spring	185.0	0.0000	63.1	229.4
J-431	Spring	185.0	0.0000	63.1	229.4
J-432	Spring	190.0	0.0000	56.0	229.4
J-433	Municipal	208.0	0.0000	59.8	250.1
J-434	Municipal	206.0	0.0000	62.6	250.1
J-435	Municipal	219.5	0.0000	43.4	250.1
J-436	Municipal	178.0	0.0000	102.4	250.1
J-437	Spring	178.0	0.0000	74.5	230.5
J-438	Spring	178.0	0.0000	73.9	230.0
J-439	Spring	185.0	0.0000	63.1	229.4
J-440	Spring	187.0	0.0000	60.2	229.4
J-441	Spring	185.0	0.0000	63.1	229.4
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	58.0	257.4
J-443	East Hill Reduced Pressure Zone	216.0	0.0000	58.7	257.4
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	58.1	257.4
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	58.1	257.4
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	57.5	257.5
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	57.5	257.5
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	56.7	257.4
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	56.7	257.4
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	59.0	257.6
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	59.0	257.6
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	56.4	257.7
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.8
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	64.9	257.8
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	63.9	257.7
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	56.4	257.7
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	60.7	257.7
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	62.0	257.7
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	62.4	257.7
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	55.0	257.7
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	60.6	257.7
J-475	East Hill Reduced Pressure Zone	194.0	0.0149	72.9	245.3
J-477	Spring	185.0	0.0000	63.2	229.5
J-478	Spring	195.0	0.0000	48.9	229.5
J-479	Spring	192.0	0.0000	53.2	229.5
J-480	Spring	181.0	0.0000	69.3	229.8
J-481	Industrial	231.0	0.0000	61.7	274.5
J-482	Municipal	216.3	0.0000	46.6	249.1
J-483	Municipal	180.0	0.0000	100.0	250.5
J-484	Municipal	179.0	0.0000	101.4	250.5
J-485	Municipal	178.0	0.0000	103.2	250.7
J-486	Municipal	178.0	0.0000	103.2	250.7
J-487	Municipal	179.0	0.0000	101.9	250.8
J-490	Municipal	178.5	0.0000	102.0	250.4
J-491	Municipal	212.5	0.0000	53.8	250.4
J-492	Municipal	213.0	0.0000	53.0	250.4
J-493	Municipal	215.0	0.0000	50.1	250.3
J-495	Municipal	213.0	0.0000	53.6	250.8
J-496	Municipal	214.5	0.0000	51.5	250.8
J-497	Municipal	180.0	0.0000	100.9	251.1
J-498	Municipal	180.0	0.0000	100.9	251.1
J-499	Municipal	180.0	0.0000	100.9	251.1
J-500	Municipal	180.0	0.0000	100.9	251.1
J-501	Municipal	180.0	0.0000	100.9	251.1
J-502	Municipal	207.0	0.0000	62.3	250.9
J-503	Municipal	206.7	0.0000	62.8	250.9
J-504	Municipal	207.5	0.0000	61.6	250.9
J-505	Municipal	212.0	0.0000	55.2	250.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	60.3	250.9
J-507	Municipal	205.5	0.0000	64.4	250.9
J-508	Municipal	213.0	0.0000	53.8	250.9
J-509	Municipal	215.0	0.0000	50.9	250.8
J-510	Municipal	215.5	0.0000	50.2	250.9
J-511	Industrial	213.5	0.0000	86.6	274.5
J-512	Industrial	218.0	0.0000	80.2	274.5
J-514	Industrial	220.0	0.0000	77.3	274.5
J-515	Municipal	214.0	0.0000	51.3	250.1
J-516	Municipal	214.0	0.0000	51.3	250.1
J-517	Municipal	216.0	0.0000	48.4	250.1
J-518	Municipal	216.0	0.0000	48.4	250.1
J-520	Municipal	217.0	0.0000	47.0	250.1
J-521	Municipal	217.0	0.0000	47.0	250.1
J-525	Municipal	178.8	0.0000	101.3	250.1
J-526	Municipal	179.6	0.0000	100.1	250.1
J-527	Spring	182.0	0.0000	67.4	229.5
J-528	Spring	182.0	0.0000	67.4	229.5
J-529	Municipal	179.0	0.0000	100.9	250.1
J-530	Municipal	179.0	0.0000	100.9	250.1
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	63.1	257.7
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	66.3	257.7
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	64.9	257.7
J-534	Municipal	178.0	0.0000	102.3	250.1
J-535	East Hill Pressure Zone	230.0	0.0000	98.6	299.4
J-536	East Hill Pressure Zone	228.4	0.0000	100.8	299.4
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	36.6	257.7
J-538	East Hill Pressure Zone	240.0	0.0000	84.3	299.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	100.9	250.1
J-540	Municipal	178.0	0.0000	102.4	250.1
J-542	Spring	190.5	0.0000	56.8	230.5
J-543	Spring	184.0	0.0000	66.0	230.5
J-544	Municipal	217.0	0.0000	46.3	249.6
J-545	Municipal	217.5	0.0000	45.6	249.6
J-546	Municipal	217.5	0.0000	45.6	249.6
J-547	Industrial	219.0	0.0000	78.7	274.5
J-548	Industrial	219.0	0.0000	78.7	274.5
J-549	Industrial	219.5	0.0000	78.0	274.5
J-550	Industrial	217.0	0.4779	81.6	274.5
J-552	Industrial	217.5	0.0000	80.9	274.5
J-553	Industrial	218.0	0.0000	80.2	274.5
J-554	Municipal	212.0	0.0000	55.0	250.7
J-555	Municipal	178.0	1.0589	103.7	251.0
J-556	Municipal	179.5	0.0000	101.6	251.1
J-557	Municipal	183.0	0.0000	96.7	251.1
J-558	Industrial	215.0	0.0000	84.5	274.5
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	53.3	257.6
J-560	Municipal	217.2	0.0000	46.7	250.1
J-561	Municipal	185.0	0.0000	92.4	250.1
J-562	Industrial	220.3	0.0000	76.9	274.5
J-563	Industrial	218.7	0.0000	79.2	274.5
J-564	Non-Supply	246.0	0.0000	2.3	247.6
J-565	Industrial	179.5	0.0000	166.9	297.1
J-566	Industrial	179.5	0.0000	166.9	297.1
J-567	Industrial	179.5	0.0000	166.9	297.1
J-568	Industrial	179.5	0.0000	166.9	297.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	135.0	274.6
J-570	Industrial	179.5	0.0000	135.0	274.6
J-571	Industrial	179.5	0.0000	166.9	297.1
J-572	Industrial	179.5	0.0000	135.0	274.6
J-573	Municipal	185.5	0.0000	93.6	251.4
J-574	Municipal	185.5	0.0000	93.6	251.4
J-575	Municipal	185.5	0.0000	93.6	251.4
J-576	Municipal	185.5	0.0000	93.6	251.4
J-578	Municipal	188.5	0.0000	89.3	251.4
J-579	Non-Supply	243.0	0.0000	6.6	247.7
J-580	Non-Supply	243.0	0.0000	6.6	247.7
J-581	East Hill Pressure Zone	243.0	0.0000	80.4	299.6
J-582	East Hill Pressure Zone	243.0	0.0000	80.4	299.6
J-583	East Hill Pressure Zone	243.5	0.0000	78.9	299.1
J-584	East Hill Pressure Zone	243.3	0.0000	79.3	299.1
J-585	Industrial	222.5	0.0000	73.8	274.5
J-586	Industrial	220.6	0.0000	76.5	274.5
J-587	Industrial	221.0	0.0000	75.9	274.5
J-588	Industrial	220.1	0.0000	77.2	274.5
J-589	Industrial	220.4	0.0000	76.8	274.5
J-590	Industrial	224.6	0.0000	70.9	274.5
J-591	Spring	188.3	0.0000	59.4	230.1
J-592	Spring	188.3	0.0000	59.2	230.0
J-593	Spring	188.3	0.0000	59.2	230.0
J-594	Municipal	182.8	0.0000	95.6	250.2
J-595	Industrial	243.3	0.0000	44.3	274.5
J-596	Industrial	229.0	0.0000	64.6	274.5
J-597	East Hill Pressure Zone	229.0	0.0000	99.5	299.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	0.0000	66.9	299.1
J-600	East Hill Pressure Zone	244.5	0.0000	77.5	299.1
J-601	Spring	188.7	0.0000	59.4	230.5
J-602	Municipal	181.5	0.0000	97.4	250.1
J-603	Spring	179.2	0.0000	71.0	229.2
J-604	Spring	179.2	0.0000	71.0	229.2
J-605	Spring	186.7	0.0000	60.7	229.4
J-606	Spring	186.7	0.0000	60.7	229.4
J-607	Municipal	212.1	0.0000	54.9	250.7
J-608	Municipal	215.1	0.0000	49.3	249.8
J-609	Municipal	214.4	0.0000	51.7	250.8
J-610	Industrial	225.8	0.0000	69.1	274.5
J-611	Industrial	225.8	0.0000	69.1	274.5
J-612	Municipal	213.0	0.0000	53.6	250.8
J-613	Municipal	213.0	0.0000	53.6	250.8
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	45.5	258.1
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	44.0	258.0
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	45.4	258.0
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	46.4	257.7
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	53.5	257.7
J-620	Municipal	205.1	0.0000	63.8	250.0
J-621	Municipal	219.5	0.0000	43.4	250.1
J-622	Municipal	216.5	0.0000	47.7	250.1
J-623	Municipal	219.5	0.0000	43.4	250.1
J-624	Municipal	216.5	0.0000	47.7	250.1
J-626	Municipal	220.0	0.0000	42.7	250.1
J-627	Municipal	178.4	0.0000	101.8	250.1
J-628	Municipal	186.2	0.0000	90.7	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	95.9	250.1
J-631	Spring	184.6	0.0000	63.6	229.4
J-632	Municipal	183.6	0.0000	94.4	250.1
J-633	Municipal	187.3	0.0000	89.2	250.1
J-634	Municipal	190.0	0.0000	85.3	250.1
J-635	Municipal	180.1	0.0000	99.5	250.2
J-639	Industrial	229.0	0.0000	64.6	274.5
J-640	Municipal	182.1	0.0000	96.6	250.2
J-641	Industrial	224.6	0.0000	70.9	274.5
J-642	Industrial	224.6	0.0000	70.9	274.5
J-643	Industrial	224.6	0.0000	70.9	274.5
J-644	Municipal	180.0	0.0000	100.0	250.5
J-645	Industrial	224.6	0.0000	70.9	274.5
J-646	Industrial	224.6	0.0000	70.9	274.5
J-647	Municipal	213.0	0.0000	51.4	249.2
J-648	Municipal	219.5	0.0246	43.4	250.1
J-649	Municipal	218.0	0.0246	45.6	250.1
J-650	Municipal	219.5	0.0422	43.4	250.1
J-651	Municipal	219.5	0.0246	43.4	250.1
J-652	Municipal	218.0	0.0422	45.6	250.1
J-653	Municipal	218.0	0.0246	45.6	250.1
J-654	Municipal	220.9	0.0304	41.5	250.1
J-658	Municipal	220.5	0.0000	42.0	250.1
J-659	Municipal	186.0	0.0000	91.0	250.1
J-661	Municipal	178.4	0.0000	102.7	250.8
J-662	Spring	190.0	0.0000	57.5	230.5
J-663	Municipal	213.8	0.0000	50.3	249.2
J-664	Municipal	196.0	0.0000	76.7	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	86.1	250.1
J-666	Municipal	187.0	0.0000	89.5	250.1
J-667	Municipal	187.2	0.0000	89.3	250.1
J-668	Municipal	178.5	0.0000	101.6	250.1
J-669	Non-Supply	245.0	0.0000	3.7	247.6
J-670	Non-Supply	242.0	0.0000	8.0	247.7
J-671	East Hill Pressure Zone	243.8	0.0000	79.2	299.6
J-672	East Hill Pressure Zone	243.0	0.0000	80.4	299.6
J-673	Industrial	187.0	0.0000	124.3	274.6
J-674	Spring	186.3	0.0000	61.2	229.4
J-675	Industrial	221.5	0.1590	75.3	274.5
J-676	Industrial	220.0	0.0000	77.3	274.5
J-677	Industrial	226.9	0.1590	67.5	274.5
J-678	Industrial	221.4	0.0000	75.3	274.5
J-679	Municipal	214.4	0.0000	50.7	250.1
J-680	Municipal	214.3	0.0000	50.8	250.1
J-681	Municipal	213.1	0.0540	52.5	250.1
J-682	Municipal	214.9	0.0000	51.0	250.8
J-683	Municipal	218.0	0.0000	45.6	250.1
J-684	East Hill Pressure Zone	234.5	0.0000	91.7	299.1
J-685	East Hill Pressure Zone	242.0	0.0000	81.0	299.1
J-687	Spring	188.6	0.0000	59.5	230.5
J-688	Spring	192.0	0.0000	54.6	230.5
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	(N/A)	(N/A)	(N/A)
J-692	Industrial	214.0	(N/A)	(N/A)	(N/A)
J-693	Industrial	222.0	(N/A)	(N/A)	(N/A)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	(N/A)	(N/A)	(N/A)
J-695	East Hill Pressure Zone	237.0	(N/A)	(N/A)	(N/A)
J-696	East Hill Pressure Zone	242.0	(N/A)	(N/A)	(N/A)
J-697	East Hill Pressure Zone	242.0	(N/A)	(N/A)	(N/A)
J-698	Industrial	189.0	0.0000	121.4	274.5
J-699	Industrial	200.0	(N/A)	(N/A)	(N/A)
J-700	Municipal	200.0	(N/A)	(N/A)	(N/A)
J-701	Industrial	201.7	(N/A)	(N/A)	(N/A)
J-702	Spring	185.9	0.0000	61.8	229.4
J-703	Spring	185.9	(N/A)	(N/A)	(N/A)
J-704	Spring	189.6	(N/A)	(N/A)	(N/A)
J-705	Spring	189.6	(N/A)	(N/A)	(N/A)
J-706	Industrial	234.0	(N/A)	(N/A)	(N/A)
J-707	Industrial	238.0	(N/A)	(N/A)	(N/A)
J-708	Industrial	236.0	(N/A)	(N/A)	(N/A)
J-709	East Hill Pressure Zone	230.0	0.0000	98.1	299.1
J-710	Industrial	210.0	0.0000	91.6	274.5
J-711	Non-Supply	232.0	(N/A)	(N/A)	(N/A)
J-712	Non-Supply	250.0	(N/A)	(N/A)	(N/A)
J-713	Municipal	216.0	0.3750	49.5	250.9
J-714	Municipal	209.0	0.1680	59.5	250.9
J-715	Municipal	209.5	0.0000	58.7	250.9
J-716	Municipal	208.5	0.1680	60.2	250.9
J-717	Municipal	208.0	0.1680	60.9	250.9
J-718	Municipal	204.0	0.1680	66.6	250.9
J-719	Municipal	202.0	0.1680	69.4	250.9
J-720	Municipal	209.5	0.3750	58.7	250.9



BURNSIDE

2005 – Maximum Day Demand (MDD)

2005 - Maximum Day Demand (MDD)

Scenario Summary

<General>

Scenario Id	87
Scenario Label	10 - 2005 - MDD (1.9*ADD)
Scenario Notes	Created: 11/02/06 08:52:27 AM
Calculation Options ID	67
Calculation Options Label	10 - 2005 - MDD (Monthly)
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives

Active Topology	23: Base-Active Topology
Physical	27: Base-Physical-EP-2-CS
Demand	1908: 2005 Modified - MDD (1.9*ADD)
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags

Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

2005 - Maximum Day Demand (MDD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	2.5777	72.4	297.9
J-3	East Hill Pressure Zone	245.7	1.7374	74.8	298.4
J-4	East Hill Pressure Zone	243.8	2.1302	79.5	299.8
J-5	East Hill Pressure Zone	242.2	2.3813	81.3	299.5
J-6	East Hill Pressure Zone	238.3	2.1019	85.8	298.7
J-7	East Hill Reduced Pressure Zone	225.4	1.7657	44.8	256.9
J-8	East Hill Pressure Zone	243.6	0.0000	78.2	298.7
J-9	East Hill Pressure Zone	238.3	0.1681	85.6	298.6
J-10	East Hill Pressure Zone	227.6	0.6440	100.4	298.3
J-11	East Hill Pressure Zone	229.9	0.7006	96.6	297.9
J-12	East Hill Pressure Zone	234.1	1.1765	90.3	297.7
J-13	East Hill Pressure Zone	235.8	0.8970	87.8	297.7
J-14	East Hill Pressure Zone	243.2	0.0000	77.3	297.7
J-15	East Hill Pressure Zone	229.0	0.0000	97.3	297.6
J-16	East Hill Pressure Zone	240.0	4.5965	81.6	297.5
J-17	East Hill Pressure Zone	243.0	0.0000	77.5	297.6
J-18	East Hill Pressure Zone	229.0	0.0000	100.1	299.5
J-19	East Hill Pressure Zone	234.8	0.3928	86.7	295.9
J-20	East Hill Reduced Pressure Zone	226.2	1.3163	44.7	257.7
J-21	East Hill Pressure Zone	247.0	1.0651	69.1	295.7
J-22	East Hill Pressure Zone	234.6	7.6501	83.5	293.4
J-23	East Hill Reduced Pressure Zone	227.7	1.4862	42.7	257.8
J-24	East Hill Pressure Zone	246.0	2.9989	67.3	293.4
J-25	East Hill Pressure Zone	258.2	1.8771	49.8	293.3
J-26	East Hill Pressure Zone	264.3	0.7573	41.1	293.3
J-27	East Hill Pressure Zone	255.1	0.0000	54.2	293.3
J-28	East Hill Pressure Zone	273.5	1.5920	27.8	293.1
J-29	East Hill Pressure Zone	234.6	0.9253	83.3	293.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	1.2332	45.7	256.3
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	41.9	256.2
J-32	East Hill Reduced Pressure Zone	216.7	3.3067	55.6	255.9
J-33	East Hill Reduced Pressure Zone	218.1	4.3718	53.5	255.8
J-34	East Hill Reduced Pressure Zone	216.3	0.9537	56.4	256.0
J-35	East Hill Reduced Pressure Zone	216.7	2.6061	56.3	256.4
J-36	East Hill Reduced Pressure Zone	217.6	1.2332	55.1	256.4
J-37	East Hill Reduced Pressure Zone	214.6	2.2416	59.4	256.4
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	60.2	256.5
J-39	East Hill Reduced Pressure Zone	214.4	3.7278	60.2	256.8
J-40	East Hill Reduced Pressure Zone	217.2	1.7657	56.5	257.0
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	57.1	256.5
J-42	East Hill Reduced Pressure Zone	217.1	1.3446	56.4	256.8
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	54.7	256.6
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	49.2	256.6
J-45	East Hill Reduced Pressure Zone	223.0	0.3078	48.0	256.8
J-46	East Hill Reduced Pressure Zone	219.2	0.3078	53.4	256.8
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	44.7	257.0
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	44.7	257.2
J-49	East Hill Reduced Pressure Zone	217.8	1.7657	55.7	257.1
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	55.8	257.1
J-51	East Hill Reduced Pressure Zone	220.0	2.4380	52.7	257.1
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	43.7	257.4
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	42.3	257.1
J-54	East Hill Reduced Pressure Zone	216.7	1.3163	57.1	256.9
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	58.2	256.9
J-56	East Hill Reduced Pressure Zone	214.8	0.5892	59.7	256.9
J-57	East Hill Reduced Pressure Zone	211.3	0.5325	64.7	256.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.5325	60.0	256.9
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	47.0	256.9
J-60	East Hill Reduced Pressure Zone	221.3	1.7657	50.5	256.9
J-61	Non-Supply	242.2	0.0000	7.6	247.6
J-64	Non-Supply	238.3	0.0000	13.3	247.6
J-65	Non-Supply	226.6	0.0000	30.1	247.8
J-66	Municipal	213.8	2.2078	48.8	248.2
J-67	Municipal	183.6	0.0000	92.2	248.6
J-68	Municipal	215.8	0.3322	45.8	248.1
J-69	Municipal	216.1	0.9499	45.6	248.2
J-70	Municipal	215.7	0.9275	46.3	248.3
J-71	Municipal	215.8	0.6513	46.2	248.3
J-72	Municipal	213.7	0.7092	49.3	248.4
J-73	Municipal	210.7	0.3322	53.6	248.5
J-74	Municipal	211.3	0.6980	52.9	248.6
J-75	Municipal	213.6	0.6289	49.6	248.5
J-76	Municipal	211.3	0.0000	53.0	248.7
J-77	Municipal	211.7	0.2408	52.5	248.7
J-78	Municipal	213.1	0.8697	50.5	248.7
J-79	Municipal	214.3	0.8921	48.6	248.5
J-80	Municipal	215.6	0.9145	46.4	248.3
J-81	Industrial	217.1	0.5622	81.0	274.2
J-82	Municipal	217.1	0.6644	44.3	248.3
J-83	Municipal	217.7	0.0000	43.5	248.3
J-84	Municipal	216.7	0.0000	45.0	248.4
J-85	Municipal	216.6	0.0000	45.7	248.8
J-86	Municipal	217.6	0.0000	44.3	248.8
J-87	Municipal	214.6	1.7954	48.7	248.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.5263	47.3	248.9
J-90	Municipal	216.3	0.7428	46.3	248.9
J-91	Municipal	215.8	0.5263	46.7	248.7
J-92	Municipal	214.2	0.7092	49.2	248.9
J-93	Municipal	214.2	0.7316	48.9	248.7
J-94	Municipal	213.3	0.4236	50.4	248.8
J-95	Municipal	180.6	1.2131	96.7	248.7
J-96	Municipal	180.6	0.0000	96.7	248.7
J-97	Municipal	188.7	0.0000	86.7	249.8
J-98	Municipal	190.2	0.0000	84.2	249.5
J-99	Municipal	187.7	0.8230	87.7	249.5
J-100	Municipal	202.4	0.4013	66.6	249.3
J-101	Municipal	204.0	0.0000	64.3	249.3
J-102	Municipal	201.4	0.4013	67.9	249.3
J-103	Municipal	205.6	0.4013	61.9	249.2
J-104	Municipal	180.2	0.0000	96.9	248.5
J-105	Municipal	179.8	0.0000	97.4	248.4
J-106	Municipal	184.1	0.0000	91.3	248.4
J-107	Municipal	182.6	0.0000	93.4	248.4
J-109	East Hill Pressure Zone	226.7	0.0000	94.5	293.3
J-115	Municipal	182.6	0.0000	93.4	248.4
J-116	Municipal	188.2	0.0000	85.3	248.3
J-117	Municipal	189.0	0.0691	84.2	248.3
J-118	Municipal	217.2	0.6644	44.1	248.3
J-119	Municipal	218.6	0.0000	42.1	248.3
J-120	Municipal	217.2	0.4572	44.1	248.3
J-121	Municipal	217.4	0.9947	43.8	248.3
J-122	East Hill Pressure Zone	238.0	0.0000	84.4	297.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	4.3718	81.6	297.5
J-124	Municipal	217.0	0.5599	44.4	248.3
J-125	Municipal	217.0	0.3658	44.4	248.3
J-126	Municipal	216.6	0.2855	45.0	248.3
J-127	Municipal	216.1	0.8342	45.7	248.3
J-128	Municipal	215.3	0.0000	46.8	248.3
J-129	Municipal	212.6	0.0579	50.6	248.3
J-130	Municipal	213.1	0.2967	49.9	248.3
J-131	Municipal	213.6	0.7670	49.2	248.3
J-132	Municipal	213.8	1.0750	48.9	248.2
J-133	Municipal	211.7	0.6401	51.9	248.2
J-134	Municipal	213.6	0.9499	49.2	248.2
J-135	Municipal	211.6	0.1250	52.1	248.3
J-136	Municipal	210.8	0.3658	53.2	248.3
J-137	Municipal	211.4	0.8697	52.3	248.3
J-138	Municipal	211.2	4.0498	52.5	248.2
J-139	Municipal	214.7	1.1907	47.6	248.2
J-140	Municipal	211.8	0.6289	51.7	248.2
J-141	Municipal	212.6	0.0000	50.5	248.2
J-142	Municipal	210.7	0.7204	53.2	248.2
J-143	Municipal	209.8	1.2467	54.5	248.2
J-144	Municipal	211.2	0.6401	52.6	248.2
J-145	Municipal	209.7	1.6125	54.9	248.4
J-146	Municipal	210.2	2.0828	54.0	248.2
J-147	Municipal	209.0	2.2657	55.6	248.2
J-148	Municipal	181.6	0.0000	94.6	248.2
J-149	Municipal	180.4	0.0000	96.5	248.4
J-150	Municipal	177.7	0.0000	100.3	248.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.3658	99.3	248.3
J-152	Municipal	178.7	0.0000	98.7	248.3
J-153	Municipal	179.6	0.0000	97.4	248.2
J-154	Municipal	178.9	0.2519	98.4	248.2
J-155	Municipal	190.6	2.6315	81.8	248.2
J-156	Municipal	179.4	0.4013	97.7	248.2
J-157	Municipal	178.6	0.4013	98.9	248.3
J-158	Municipal	186.2	0.7092	88.1	248.2
J-159	Municipal	179.6	0.5263	97.5	248.3
J-160	Municipal	187.8	2.5979	85.8	248.3
J-161	Municipal	184.1	0.0000	91.1	248.3
J-162	Municipal	178.3	0.0000	99.3	248.3
J-163	Municipal	187.1	0.0000	86.7	248.2
J-164	Municipal	189.6	2.3907	83.1	248.2
J-165	Municipal	189.8	0.2743	82.8	248.1
J-166	Municipal	189.4	0.1829	83.4	248.2
J-167	Municipal	196.8	0.3434	72.9	248.1
J-168	Municipal	199.6	0.0000	68.9	248.1
J-169	Municipal	204.1	0.0000	62.5	248.1
J-170	Municipal	202.2	0.5599	65.2	248.1
J-171	Municipal	194.7	0.2165	75.9	248.1
J-172	Municipal	190.1	0.2743	82.4	248.2
J-173	Municipal	187.7	0.0000	86.0	248.3
J-176	East Hill Pressure Zone	240.0	0.0000	81.6	297.5
J-177	East Hill Pressure Zone	239.0	4.3718	83.0	297.5
J-178	Municipal	180.6	0.0000	96.0	248.2
J-179	Municipal	202.2	0.0000	65.3	248.2
J-180	Municipal	211.5	0.0000	52.1	248.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	99.2	248.3
J-182	Municipal	178.1	0.0000	99.6	248.3
J-183	Municipal	178.1	0.0000	99.6	248.3
J-184	Municipal	178.7	0.0000	98.7	248.3
J-185	Municipal	182.1	0.0000	93.9	248.3
J-186	Municipal	187.8	0.0000	85.8	248.3
J-187	Municipal	195.4	0.0000	75.0	248.3
J-188	Municipal	187.3	0.0000	86.5	248.2
J-189	Municipal	188.2	0.0000	85.1	248.2
J-190	Municipal	190.1	0.0000	82.4	248.2
J-191	Municipal	191.7	0.0000	80.1	248.2
J-192	Municipal	202.6	0.0000	64.7	248.2
J-193	Municipal	185.3	0.7558	89.2	248.1
J-194	Municipal	200.0	0.0000	68.3	248.1
J-195	Municipal	201.6	1.1907	66.0	248.1
J-196	Municipal	202.6	1.5098	64.5	248.1
J-197	Municipal	205.1	0.0000	61.0	248.1
J-198	Municipal	200.6	0.0000	67.4	248.1
J-199	Municipal	199.2	0.5263	69.3	248.1
J-200	Municipal	201.6	1.0638	65.9	248.0
J-201	Municipal	203.9	0.0000	62.6	248.0
J-202	Municipal	204.2	0.0000	62.2	248.0
J-203	Municipal	186.6	0.0914	87.2	248.0
J-204	Municipal	186.1	0.7204	87.9	248.0
J-205	Municipal	182.1	0.4013	93.6	248.0
J-206	Municipal	178.8	0.0000	98.2	248.0
J-208	Municipal	188.1	0.2165	85.0	248.0
J-209	Municipal	188.3	0.0000	84.8	248.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	72.7	248.0
J-211	Municipal	185.2	0.0000	89.2	248.0
J-212	Municipal	183.8	0.6980	91.1	248.0
J-213	Municipal	182.7	0.0000	92.7	248.0
J-214	Municipal	185.6	0.0000	88.6	248.0
J-215	Municipal	186.8	0.3098	86.9	248.0
J-216	Municipal	186.1	0.6756	87.9	248.0
J-217	Municipal	220.4	0.1026	39.6	248.3
J-219	Municipal	218.5	0.0000	42.3	248.3
J-220	Municipal	220.5	0.0000	39.5	248.3
J-223	Spring	188.2	0.0000	54.4	226.6
J-224	Spring	187.3	0.0000	55.7	226.6
J-225	Spring	186.7	0.6513	56.6	226.6
J-226	Spring	185.9	1.1104	57.7	226.6
J-227	Spring	186.1	0.5039	57.4	226.6
J-228	Spring	186.6	0.7092	56.7	226.6
J-229	Spring	186.6	1.0974	56.7	226.6
J-230	Spring	187.4	0.4572	55.6	226.6
J-231	Spring	189.6	0.7782	52.5	226.6
J-232	Spring	186.1	1.0974	57.4	226.6
J-233	Spring	186.4	0.8342	57.0	226.6
J-234	Spring	188.7	0.7204	53.8	226.6
J-235	Spring	194.3	0.0000	45.8	226.6
J-236	Spring	184.1	0.7092	60.3	226.6
J-237	Spring	185.6	0.5375	58.2	226.6
J-238	Spring	187.2	0.7204	55.9	226.6
J-239	Spring	190.1	0.4572	51.8	226.6
J-240	Spring	182.1	0.6980	63.4	226.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	0.7316	62.6	226.7
J-242	Spring	183.6	0.5953	61.3	226.8
J-243	Spring	185.7	1.2821	58.2	226.7
J-244	Spring	187.9	0.5953	55.0	226.7
J-245	Spring	180.1	0.0000	66.3	226.8
J-246	Spring	180.2	0.7204	66.4	227.0
J-247	Spring	181.2	0.1829	65.1	227.1
J-248	Spring	182.2	0.0803	63.9	227.2
J-249	Spring	185.6	0.6644	58.7	227.0
J-250	Spring	179.9	0.0000	67.9	227.8
J-251	Spring	181.6	0.0000	65.4	227.7
J-252	Spring	183.6	2.0716	62.6	227.7
J-253	Spring	180.1	0.1605	68.7	228.5
J-254	Spring	183.9	0.8697	63.3	228.5
J-255	Spring	178.2	0.7894	73.5	230.0
J-256	Spring	184.1	1.1104	64.1	229.3
J-257	Spring	188.3	1.0638	58.0	229.1
J-258	Spring	182.8	0.5263	67.3	230.2
J-259	Spring	190.6	0.4124	55.9	230.0
J-260	Spring	183.8	1.3045	65.7	230.1
J-261	Spring	190.1	0.0000	56.8	230.1
J-262	Spring	180.6	0.0914	70.3	230.1
J-263	Spring	179.8	0.3882	66.1	226.4
J-264	Spring	182.6	0.9499	62.3	226.5
J-265	Spring	181.8	0.0000	63.1	226.2
J-267	Spring	182.6	0.4796	61.4	225.8
J-268	Spring	184.6	0.2296	58.5	225.8
J-269	Spring	181.3	3.4545	63.2	225.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.3882	64.8	226.1
J-271	Spring	180.8	1.0190	63.9	225.8
J-272	Spring	179.8	1.5565	65.3	225.8
J-273	Spring	179.6	0.0000	65.7	225.9
J-274	Spring	178.8	2.5624	66.9	225.9
J-275	Spring	180.1	0.5375	64.8	225.8
J-276	Spring	179.8	0.5599	65.2	225.7
J-277	Spring	179.1	0.4796	66.2	225.8
J-278	Spring	178.8	2.8479	66.7	225.8
J-279	Spring	177.9	0.0000	68.0	225.8
J-280	Spring	179.5	0.0000	65.7	225.8
J-281	Spring	178.8	0.0000	66.7	225.8
J-282	Spring	186.1	0.7316	56.2	225.7
J-283	Spring	182.6	1.9111	61.2	225.7
J-284	Spring	179.4	0.7782	65.8	225.7
J-285	Spring	179.2	0.4348	66.0	225.7
J-286	Spring	178.9	0.0000	66.5	225.8
J-287	Spring	178.6	0.0000	66.9	225.8
J-288	Spring	178.4	1.2933	67.2	225.8
J-289	Spring	177.9	0.0000	68.0	225.8
J-291	Industrial	189.3	0.0000	120.9	274.5
J-292	Industrial	183.5	12.1966	128.9	274.3
J-293	Industrial	201.7	0.0000	103.2	274.4
J-294	Industrial	211.4	0.0000	89.3	274.3
J-295	Industrial	214.4	0.0000	85.0	274.3
J-296	Industrial	218.6	3.0126	78.9	274.2
J-297	Industrial	214.4	0.0000	85.1	274.3
J-298	Industrial	214.2	0.0000	85.3	274.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	3.0126	84.4	274.2
J-300	Industrial	213.8	0.5907	85.8	274.3
J-301	Industrial	214.6	0.0000	84.7	274.2
J-302	Industrial	214.8	13.3496	84.2	274.1
J-303	Industrial	218.6	0.0000	78.9	274.2
J-304	Industrial	222.8	18.6852	72.8	274.1
J-305	Industrial	220.7	0.0000	76.0	274.2
J-306	Industrial	226.2	0.0000	68.1	274.2
J-307	Industrial	219.6	0.0000	77.5	274.2
J-308	Industrial	225.8	0.0000	68.7	274.2
J-309	Industrial	216.7	7.5542	81.5	274.2
J-310	Industrial	217.1	0.0000	81.0	274.2
J-311	Industrial	218.2	0.5907	79.4	274.2
J-312	Industrial	218.0	0.5907	79.7	274.2
J-313	Industrial	220.3	0.0000	76.5	274.2
J-314	Industrial	221.3	0.0000	75.1	274.2
J-315	Industrial	218.7	0.5907	78.7	274.2
J-316	Industrial	217.1	0.4749	81.0	274.2
J-317	Industrial	218.7	0.2298	78.7	274.2
J-318	Industrial	220.4	0.0000	76.3	274.2
J-319	Industrial	219.4	0.4749	77.7	274.2
J-320	Industrial	219.8	0.3457	77.1	274.1
J-321	Industrial	222.4	0.3457	73.5	274.2
J-322	Industrial	224.3	0.3457	70.8	274.2
J-323	Industrial	221.4	0.2298	74.9	274.2
J-324	Industrial	220.6	0.2298	76.0	274.2
J-325	Industrial	226.6	0.2298	67.5	274.2
J-326	Municipal	189.3	0.0000	83.8	248.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	90.5	248.4
J-328	Municipal	178.4	0.0000	100.4	249.2
J-329	Municipal	211.7	0.0000	53.1	249.1
J-330	Municipal	211.8	0.0000	53.0	249.1
J-331	Municipal	214.6	0.0000	49.0	249.1
J-332	Municipal	213.4	0.0000	50.7	249.1
J-333	Spring	178.7	0.0000	71.8	229.3
J-334	Spring	178.2	0.0000	73.7	230.1
J-335	East Hill Pressure Zone	245.9	0.0000	75.1	298.8
J-336	East Hill Pressure Zone	240.2	0.0000	82.6	298.4
J-337	East Hill Pressure Zone	250.6	0.0000	66.8	297.7
J-338	East Hill Pressure Zone	236.0	0.0000	87.5	297.7
J-339	Industrial	219.6	0.0000	77.4	274.2
J-340	Industrial	218.2	0.0000	79.4	274.2
J-341	Municipal	210.6	0.0000	53.4	248.3
J-342	Municipal	211.1	0.0000	52.7	248.3
J-343	Municipal	181.1	0.0000	95.3	248.2
J-344	Municipal	187.5	0.0000	86.2	248.2
J-345	Municipal	189.1	0.0000	83.9	248.2
J-346	Municipal	188.1	0.0000	85.3	248.2
J-347	Municipal	209.6	0.0000	54.8	248.2
J-348	Municipal	206.3	0.0000	59.5	248.2
J-349	Municipal	189.2	0.0000	83.8	248.2
J-351	Municipal	209.5	0.0000	54.9	248.2
J-353	Municipal	216.5	0.0000	45.0	248.2
J-354	Municipal	217.0	0.0000	44.3	248.2
J-355	Municipal	212.0	0.0000	51.4	248.2
J-356	Municipal	200.0	0.0000	68.4	248.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	68.4	248.2
J-358	Municipal	200.0	0.0000	68.4	248.2
J-359	Municipal	200.0	0.0000	68.5	248.3
J-360	Municipal	202.0	0.0000	65.7	248.3
J-361	Municipal	201.0	0.0000	67.1	248.3
J-362	Municipal	199.0	0.0000	69.9	248.3
J-363	Municipal	205.5	0.0000	60.6	248.2
J-364	Municipal	205.0	0.0000	61.3	248.2
J-366	Municipal	180.0	0.0000	96.8	248.2
J-367	Municipal	185.0	0.0000	89.7	248.2
J-368	Municipal	180.0	0.0000	96.8	248.2
J-369	Municipal	195.0	0.0000	75.5	248.2
J-370	Municipal	195.0	0.0000	75.5	248.2
J-371	Municipal	210.0	0.0000	54.2	248.2
J-372	Municipal	207.5	0.0000	57.8	248.2
J-373	Municipal	200.0	0.0000	68.4	248.2
J-374	Municipal	208.0	0.0000	57.1	248.2
J-375	Municipal	208.0	0.0000	57.1	248.2
J-376	Municipal	205.0	0.0000	61.3	248.2
J-377	Municipal	203.5	0.0000	63.3	248.1
J-378	Municipal	203.5	0.0000	63.3	248.1
J-381	Municipal	180.0	0.0000	96.6	248.0
J-382	Municipal	180.0	0.0000	96.6	248.0
J-383	Municipal	178.0	0.0000	99.5	248.1
J-384	Municipal	185.0	0.0000	89.7	248.2
J-385	Municipal	185.0	0.0000	89.7	248.2
J-386	Spring	185.0	0.0000	57.9	225.8
J-387	Spring	180.5	0.0000	64.3	225.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	57.9	225.8
J-389	Spring	185.0	0.0000	57.9	225.8
J-390	Spring	185.0	0.0000	57.9	225.8
J-391	Spring	185.0	0.0000	57.9	225.8
J-392	Municipal	210.0	0.0000	54.3	248.2
J-393	Municipal	206.0	0.0000	60.0	248.2
J-394	Municipal	210.0	0.0000	54.3	248.2
J-395	Municipal	209.8	0.0000	54.7	248.3
J-396	Municipal	206.0	0.0000	60.1	248.3
J-397	Municipal	213.0	0.0000	50.0	248.2
J-398	Municipal	214.0	0.0000	48.6	248.2
J-400	Municipal	220.0	0.0000	40.0	248.2
J-401	Municipal	207.5	0.0000	57.8	248.2
J-402	Municipal	207.5	0.0000	57.8	248.2
J-403	Municipal	214.5	0.0000	47.8	248.2
J-404	Municipal	216.0	0.0000	45.7	248.2
J-405	Municipal	220.0	0.0000	40.1	248.2
J-406	Municipal	210.5	0.0000	53.6	248.3
J-407	Municipal	205.0	0.0000	61.4	248.3
J-408	Municipal	210.0	0.0000	54.3	248.3
J-409	Municipal	212.5	0.0000	50.7	248.2
J-410	Municipal	212.0	0.0000	51.4	248.2
J-411	Municipal	215.0	0.0000	47.2	248.3
J-412	Municipal	214.3	0.0000	48.2	248.3
J-413	Municipal	216.0	0.0000	45.8	248.3
J-414	Municipal	214.5	0.0000	48.0	248.3
J-415	Municipal	213.1	0.0000	50.0	248.3
J-416	Municipal	218.0	0.0000	43.0	248.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	43.0	248.3
J-418	Municipal	218.0	0.0000	43.0	248.3
J-419	Municipal	218.0	0.1717	43.0	248.3
J-420	Municipal	218.0	0.0000	43.0	248.3
J-421	Municipal	216.0	0.0000	45.8	248.3
J-422	Municipal	216.0	0.0000	45.8	248.3
J-423	Municipal	215.0	0.0000	47.3	248.3
J-424	Municipal	210.0	0.0000	54.4	248.3
J-425	Spring	186.0	0.0000	57.6	226.6
J-426	Municipal	181.5	0.0000	94.8	248.3
J-428	Spring	186.0	0.0000	57.6	226.6
J-429	Spring	185.0	0.0000	59.0	226.6
J-430	Spring	185.0	0.0000	59.0	226.6
J-431	Spring	185.0	0.0000	59.0	226.6
J-432	Spring	190.0	0.0000	51.8	226.5
J-433	Municipal	208.0	0.0000	57.1	248.3
J-434	Municipal	206.0	0.0000	60.0	248.3
J-435	Municipal	219.5	0.0000	40.9	248.3
J-436	Municipal	178.0	0.0000	99.8	248.3
J-437	Spring	178.0	0.0000	73.9	230.1
J-438	Spring	178.0	0.0000	71.7	228.5
J-439	Spring	185.0	0.0000	59.0	226.6
J-440	Spring	187.0	0.0000	56.1	226.6
J-441	Spring	185.0	0.0000	59.0	226.6
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	55.8	255.8
J-443	East Hill Reduced Pressure Zone	216.0	0.0000	56.5	255.8
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	56.6	255.9
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	56.6	255.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	56.6	255.9
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	55.9	255.9
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	55.9	255.9
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	55.6	256.2
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	55.6	256.2
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	54.6	256.0
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	54.6	256.0
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	56.7	256.4
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	56.7	256.4
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	56.7	256.4
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	57.4	256.4
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	57.4	256.4
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	59.1	256.6
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	59.1	256.6
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	59.1	256.6
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	59.1	256.6
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	55.2	256.9
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	56.7	256.9
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	56.9	257.1
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	64.0	257.1
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	56.9	257.1
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	63.0	257.1
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	55.4	257.0
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	59.6	257.0
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	60.9	256.9
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	61.2	256.8
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	53.9	257.0
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	56.8	257.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	59.6	257.0
J-475	East Hill Reduced Pressure Zone	194.0	0.0283	72.9	245.3
J-477	Spring	185.0	0.0000	59.5	226.9
J-478	Spring	195.0	0.0000	44.9	226.7
J-479	Spring	192.0	0.0000	49.2	226.7
J-480	Spring	181.0	0.0000	66.4	227.8
J-481	Industrial	231.0	0.0000	61.3	274.2
J-482	Municipal	216.3	0.0000	45.1	248.1
J-483	Municipal	180.0	0.0000	97.7	248.8
J-484	Municipal	179.0	0.0000	99.1	248.8
J-485	Municipal	178.0	0.0000	100.9	249.1
J-486	Municipal	178.0	0.0000	100.9	249.1
J-487	Municipal	179.0	0.0000	99.7	249.2
J-490	Municipal	178.5	0.0000	99.7	248.7
J-491	Municipal	212.5	0.0000	51.5	248.8
J-492	Municipal	213.0	0.0000	50.7	248.8
J-493	Municipal	215.0	0.0000	47.8	248.7
J-495	Municipal	213.0	0.0000	51.3	249.1
J-496	Municipal	214.5	0.0000	49.2	249.1
J-497	Municipal	180.0	0.0000	98.6	249.5
J-498	Municipal	180.0	0.0000	98.6	249.5
J-499	Municipal	180.0	0.0000	98.7	249.5
J-500	Municipal	180.0	0.0000	98.7	249.5
J-501	Municipal	180.0	0.0000	98.7	249.5
J-502	Municipal	207.0	0.0000	60.0	249.2
J-503	Municipal	206.7	0.0000	60.4	249.2
J-504	Municipal	207.5	0.0000	59.2	249.2
J-505	Municipal	212.0	0.0000	52.9	249.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	58.0	249.2
J-507	Municipal	205.5	0.0000	62.1	249.2
J-508	Municipal	213.0	0.0000	51.4	249.2
J-509	Municipal	215.0	0.0000	48.5	249.2
J-510	Municipal	215.5	0.0000	47.9	249.2
J-511	Industrial	213.5	0.0000	86.3	274.3
J-512	Industrial	218.0	0.0000	79.7	274.2
J-514	Industrial	220.0	0.0000	76.9	274.2
J-515	Municipal	214.0	0.0000	48.7	248.3
J-516	Municipal	214.0	0.0000	48.7	248.3
J-517	Municipal	216.0	0.0000	45.8	248.3
J-518	Municipal	216.0	0.0000	45.8	248.3
J-520	Municipal	217.0	0.0000	44.4	248.3
J-521	Municipal	217.0	0.0000	44.4	248.3
J-525	Municipal	178.8	0.0000	98.8	248.4
J-526	Municipal	179.6	0.0000	97.6	248.4
J-527	Spring	182.0	0.0000	63.6	226.8
J-528	Spring	182.0	0.0000	63.6	226.8
J-529	Municipal	179.0	0.0000	98.3	248.2
J-530	Municipal	179.0	0.0000	98.3	248.2
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	61.9	256.8
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	65.1	256.9
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	63.7	256.9
J-534	Municipal	178.0	0.0000	99.7	248.3
J-535	East Hill Pressure Zone	230.0	0.0000	97.5	298.7
J-536	East Hill Pressure Zone	228.4	0.0000	99.8	298.7
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	35.5	256.9
J-538	East Hill Pressure Zone	240.0	0.0000	83.2	298.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	98.4	248.3
J-540	Municipal	178.0	0.0000	99.8	248.3
J-542	Spring	190.5	0.0000	56.2	230.1
J-543	Spring	184.0	0.0000	65.5	230.1
J-544	Municipal	217.0	0.0000	44.4	248.2
J-545	Municipal	217.5	0.0000	43.6	248.2
J-546	Municipal	217.5	0.0000	43.6	248.2
J-547	Industrial	219.0	0.0000	78.3	274.2
J-548	Industrial	219.0	0.0000	78.3	274.2
J-549	Industrial	219.5	0.0000	77.6	274.2
J-550	Industrial	217.0	0.9080	81.1	274.2
J-552	Industrial	217.5	0.0000	80.5	274.2
J-553	Industrial	218.0	0.0000	79.8	274.2
J-554	Municipal	212.0	0.0000	52.7	249.1
J-555	Municipal	178.0	2.0119	100.9	249.1
J-556	Municipal	179.5	0.0000	99.0	249.3
J-557	Municipal	183.0	0.0000	94.1	249.3
J-558	Industrial	215.0	0.0000	84.2	274.3
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	51.7	256.4
J-560	Municipal	217.2	0.0000	44.1	248.3
J-561	Municipal	185.0	0.0000	89.8	248.3
J-562	Industrial	220.3	0.0000	76.5	274.2
J-563	Industrial	218.7	0.0000	78.7	274.2
J-564	Non-Supply	246.0	0.0000	2.3	247.6
J-565	Industrial	179.5	0.0000	165.1	295.8
J-566	Industrial	179.5	0.0000	165.1	295.8
J-567	Industrial	179.5	0.0000	165.1	295.8
J-568	Industrial	179.5	0.0000	165.1	295.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	134.9	274.6
J-570	Industrial	179.5	0.0000	134.9	274.6
J-571	Industrial	179.5	0.0000	165.1	295.8
J-572	Industrial	179.5	0.0000	134.9	274.6
J-573	Municipal	185.5	0.0000	91.4	249.9
J-574	Municipal	185.5	0.0000	91.4	249.9
J-575	Municipal	185.5	0.0000	91.4	249.9
J-576	Municipal	185.5	0.0000	91.3	249.8
J-578	Municipal	188.5	0.0000	87.0	249.8
J-579	Non-Supply	243.0	0.0000	6.5	247.6
J-580	Non-Supply	243.0	0.0000	6.5	247.6
J-581	East Hill Pressure Zone	243.0	0.0000	80.0	299.4
J-582	East Hill Pressure Zone	243.0	0.0000	80.0	299.4
J-583	East Hill Pressure Zone	243.5	0.0000	76.9	297.7
J-584	East Hill Pressure Zone	243.3	0.0000	77.2	297.6
J-585	Industrial	222.5	0.0000	73.4	274.2
J-586	Industrial	220.6	0.0000	76.1	274.2
J-587	Industrial	221.0	0.0000	75.5	274.2
J-588	Industrial	220.1	0.0000	76.8	274.2
J-589	Industrial	220.4	0.0000	76.4	274.2
J-590	Industrial	224.6	0.0000	70.5	274.2
J-591	Spring	188.3	0.0000	57.5	228.8
J-592	Spring	188.3	0.0000	56.9	228.4
J-593	Spring	188.3	0.0000	56.9	228.4
J-594	Municipal	182.8	0.0000	93.3	248.5
J-595	Industrial	243.3	0.0000	43.9	274.2
J-596	Industrial	229.0	0.0000	64.1	274.2
J-597	East Hill Pressure Zone	229.0	0.0000	97.3	297.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	0.0000	64.8	297.7
J-600	East Hill Pressure Zone	244.5	0.0000	75.5	297.7
J-601	Spring	188.7	0.0000	58.8	230.1
J-602	Municipal	181.5	0.0000	94.8	248.3
J-603	Spring	179.2	0.0000	66.3	225.9
J-604	Spring	179.2	0.0000	66.3	225.9
J-605	Spring	186.7	0.0000	56.6	226.6
J-606	Spring	186.7	0.0000	56.6	226.6
J-607	Municipal	212.1	0.0000	52.6	249.1
J-608	Municipal	215.1	0.0000	47.3	248.4
J-609	Municipal	214.4	0.0000	49.3	249.2
J-610	Industrial	225.8	0.0000	68.7	274.2
J-611	Industrial	225.8	0.0000	68.7	274.2
J-612	Municipal	213.0	0.0000	51.3	249.1
J-613	Municipal	213.0	0.0000	51.3	249.1
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	45.1	257.8
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	43.6	257.7
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	45.0	257.7
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	45.3	256.9
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	52.4	256.9
J-620	Municipal	205.1	0.0000	61.0	248.1
J-621	Municipal	219.5	0.0000	40.9	248.3
J-622	Municipal	216.5	0.0000	45.1	248.3
J-623	Municipal	219.5	0.0000	40.9	248.3
J-624	Municipal	216.5	0.0000	45.1	248.3
J-626	Municipal	220.0	0.0000	40.1	248.2
J-627	Municipal	178.4	0.0000	99.2	248.3
J-628	Municipal	186.2	0.0000	88.1	248.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	93.3	248.4
J-631	Spring	184.6	0.0000	59.5	226.5
J-632	Municipal	183.6	0.0000	91.9	248.4
J-633	Municipal	187.3	0.0000	86.6	248.3
J-634	Municipal	190.0	0.0000	82.8	248.3
J-635	Municipal	180.1	0.0000	97.1	248.5
J-639	Industrial	229.0	0.0000	64.2	274.2
J-640	Municipal	182.1	0.0000	94.2	248.5
J-641	Industrial	224.6	0.0000	70.5	274.2
J-642	Industrial	224.6	0.0000	70.5	274.2
J-643	Industrial	224.6	0.0000	70.5	274.2
J-644	Municipal	180.0	0.0000	97.7	248.8
J-645	Industrial	224.6	0.0000	70.5	274.2
J-646	Industrial	224.6	0.0000	70.5	274.2
J-647	Municipal	213.0	0.0000	49.9	248.2
J-648	Municipal	219.5	0.0467	40.9	248.3
J-649	Municipal	218.0	0.0467	43.0	248.3
J-650	Municipal	219.5	0.0803	40.9	248.3
J-651	Municipal	219.5	0.0467	40.9	248.3
J-652	Municipal	218.0	0.0803	43.0	248.3
J-653	Municipal	218.0	0.0467	43.0	248.3
J-654	Municipal	220.9	0.0579	38.9	248.3
J-658	Municipal	220.5	0.0000	39.5	248.3
J-659	Municipal	186.0	0.0000	88.4	248.3
J-661	Municipal	178.4	0.0000	100.4	249.2
J-662	Spring	190.0	0.0000	56.9	230.1
J-663	Municipal	213.8	0.0000	48.8	248.2
J-664	Municipal	196.0	0.0000	74.0	248.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	83.4	248.2
J-666	Municipal	187.0	0.0000	86.8	248.2
J-667	Municipal	187.2	0.0000	86.6	248.2
J-668	Municipal	178.5	0.0000	99.0	248.3
J-669	Non-Supply	245.0	0.0000	3.6	247.6
J-670	Non-Supply	242.0	0.0000	7.9	247.6
J-671	East Hill Pressure Zone	243.8	0.0000	78.9	299.4
J-672	East Hill Pressure Zone	243.0	0.0000	80.0	299.4
J-673	Industrial	187.0	0.0000	124.3	274.6
J-674	Spring	186.3	0.0000	57.1	226.5
J-675	Industrial	221.5	0.3020	74.8	274.1
J-676	Industrial	220.0	0.0000	76.9	274.1
J-677	Industrial	226.9	0.3020	67.1	274.1
J-678	Industrial	221.4	0.0000	74.9	274.1
J-679	Municipal	214.4	0.0000	48.1	248.3
J-680	Municipal	214.3	0.0000	48.3	248.3
J-681	Municipal	213.1	0.1026	50.0	248.3
J-682	Municipal	214.9	0.0000	48.6	249.2
J-683	Municipal	218.0	0.0000	43.0	248.3
J-684	East Hill Pressure Zone	234.5	0.0000	89.5	297.5
J-685	East Hill Pressure Zone	242.0	0.0000	78.8	297.5
J-687	Spring	188.6	0.0000	58.8	230.0
J-688	Spring	192.0	0.0000	54.0	230.0
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	(N/A)	(N/A)	(N/A)
J-692	Industrial	214.0	(N/A)	(N/A)	(N/A)
J-693	Industrial	222.0	(N/A)	(N/A)	(N/A)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	(N/A)	(N/A)	(N/A)
J-695	East Hill Pressure Zone	237.0	(N/A)	(N/A)	(N/A)
J-696	East Hill Pressure Zone	242.0	(N/A)	(N/A)	(N/A)
J-697	East Hill Pressure Zone	242.0	(N/A)	(N/A)	(N/A)
J-698	Industrial	189.0	0.0000	121.2	274.4
J-699	Industrial	200.0	(N/A)	(N/A)	(N/A)
J-700	Municipal	200.0	(N/A)	(N/A)	(N/A)
J-701	Industrial	201.7	(N/A)	(N/A)	(N/A)
J-702	Spring	185.9	0.0000	57.7	226.6
J-703	Spring	185.9	(N/A)	(N/A)	(N/A)
J-704	Spring	189.6	(N/A)	(N/A)	(N/A)
J-705	Spring	189.6	(N/A)	(N/A)	(N/A)
J-706	Industrial	234.0	(N/A)	(N/A)	(N/A)
J-707	Industrial	238.0	(N/A)	(N/A)	(N/A)
J-708	Industrial	236.0	(N/A)	(N/A)	(N/A)
J-709	East Hill Pressure Zone	230.0	0.0000	95.9	297.5
J-710	Industrial	210.0	0.0000	91.3	274.3
J-711	Non-Supply	232.0	(N/A)	(N/A)	(N/A)
J-712	Non-Supply	250.0	(N/A)	(N/A)	(N/A)
J-713	Municipal	216.0	0.4165	47.1	249.2
J-714	Municipal	209.0	0.1865	57.1	249.2
J-715	Municipal	209.5	0.0000	56.4	249.2
J-716	Municipal	208.5	0.1865	57.8	249.2
J-717	Municipal	208.0	0.1865	58.5	249.2
J-718	Municipal	204.0	0.1865	64.2	249.2
J-719	Municipal	202.0	0.1865	67.0	249.2
J-720	Municipal	209.5	0.4165	56.4	249.2



BURNSIDE

2005 – Peak Hour Demand (PHD)

2005 - Peak Hour Demand (PHD)

Scenario Summary

<General>

Scenario Id	89
Scenario Label	12 - 2005 - PHF (2.85*ADD)
Scenario Notes	Created: 11/07/06 11:43:51 AM
Calculation Options ID	69
Calculation Options Label	12 - 2005 - PHF (2.85*ADD)
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives

Active Topology	23: Base-Active Topology
Physical	27: Base-Physical-EP-2-CS
Demand	1909: 2005 Modified - PHF (2.85*ADD)
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags

Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

2005 - Peak Hour Demand (PHD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	3.8666	69.7	296.0
J-3	East Hill Pressure Zone	245.7	2.6061	72.9	297.1
J-4	East Hill Pressure Zone	243.8	3.1951	79.5	299.8
J-5	East Hill Pressure Zone	242.2	3.5720	80.8	299.1
J-6	East Hill Pressure Zone	238.3	3.1528	84.3	297.7
J-7	East Hill Reduced Pressure Zone	225.4	2.6486	43.5	256.1
J-8	East Hill Pressure Zone	243.6	0.0000	76.7	297.6
J-9	East Hill Pressure Zone	238.3	0.2521	84.0	297.5
J-10	East Hill Pressure Zone	227.6	0.9659	98.3	296.8
J-11	East Hill Pressure Zone	229.9	1.0509	94.0	296.1
J-12	East Hill Pressure Zone	234.1	1.7648	87.3	295.6
J-13	East Hill Pressure Zone	235.8	1.3455	84.8	295.5
J-14	East Hill Pressure Zone	243.2	0.0000	74.3	295.6
J-15	East Hill Pressure Zone	229.0	0.0000	94.1	295.3
J-16	East Hill Pressure Zone	240.0	6.8947	78.2	295.1
J-17	East Hill Pressure Zone	243.0	0.0000	74.3	295.4
J-18	East Hill Pressure Zone	229.0	0.0000	99.6	299.1
J-19	East Hill Pressure Zone	234.8	0.5892	80.5	291.5
J-20	East Hill Reduced Pressure Zone	226.2	1.9744	44.3	257.4
J-21	East Hill Pressure Zone	247.0	1.5976	62.6	291.1
J-22	East Hill Pressure Zone	234.6	11.4752	73.5	286.4
J-23	East Hill Reduced Pressure Zone	227.7	2.2293	42.3	257.5
J-24	East Hill Pressure Zone	246.0	4.4984	57.2	286.3
J-25	East Hill Pressure Zone	258.2	2.8157	38.3	285.2
J-26	East Hill Pressure Zone	264.3	1.1359	29.6	285.2
J-27	East Hill Pressure Zone	255.1	0.0000	42.7	285.2
J-28	East Hill Pressure Zone	273.5	2.3880	15.9	284.7
J-29	East Hill Pressure Zone	234.6	1.3880	71.1	284.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	1.8497	44.9	255.7
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	41.0	255.6
J-32	East Hill Reduced Pressure Zone	216.7	4.9600	53.9	254.7
J-33	East Hill Reduced Pressure Zone	218.1	6.5577	51.6	254.5
J-34	East Hill Reduced Pressure Zone	216.3	1.4305	54.9	255.0
J-35	East Hill Reduced Pressure Zone	216.7	3.9091	55.3	255.6
J-36	East Hill Reduced Pressure Zone	217.6	1.8497	54.1	255.7
J-37	East Hill Reduced Pressure Zone	214.6	3.3624	58.3	255.7
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	59.1	255.7
J-39	East Hill Reduced Pressure Zone	214.4	5.5917	59.1	256.1
J-40	East Hill Reduced Pressure Zone	217.2	2.6486	55.5	256.3
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	56.0	255.7
J-42	East Hill Reduced Pressure Zone	217.1	2.0169	55.4	256.1
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	53.8	255.9
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	48.2	256.0
J-45	East Hill Reduced Pressure Zone	223.0	0.4617	47.0	256.1
J-46	East Hill Reduced Pressure Zone	219.2	0.4617	52.5	256.2
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	43.8	256.4
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	44.0	256.7
J-49	East Hill Reduced Pressure Zone	217.8	2.6486	54.8	256.4
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	54.8	256.4
J-51	East Hill Reduced Pressure Zone	220.0	3.6570	51.7	256.4
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	43.0	256.9
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	41.4	256.5
J-54	East Hill Reduced Pressure Zone	216.7	1.9744	55.8	256.0
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	56.9	256.0
J-56	East Hill Reduced Pressure Zone	214.8	0.8838	58.5	256.0
J-57	East Hill Reduced Pressure Zone	211.3	0.7988	63.5	256.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.7988	58.8	256.0
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	45.7	256.0
J-60	East Hill Reduced Pressure Zone	221.3	2.6485	49.3	256.0
J-61	Non-Supply	242.2	0.0000	7.5	247.5
J-64	Non-Supply	238.3	0.0000	13.1	247.5
J-65	Non-Supply	226.6	0.0000	29.7	247.5
J-66	Municipal	213.8	3.3117	47.9	247.6
J-67	Municipal	183.6	0.0000	90.8	247.6
J-68	Municipal	215.8	0.4983	45.0	247.5
J-69	Municipal	216.1	1.4249	44.6	247.5
J-70	Municipal	215.7	1.3913	45.2	247.5
J-71	Municipal	215.8	0.9770	45.1	247.6
J-72	Municipal	213.7	1.0638	48.1	247.6
J-73	Municipal	210.7	0.4983	52.4	247.6
J-74	Municipal	211.3	1.0470	51.6	247.7
J-75	Municipal	213.6	0.9433	48.3	247.6
J-76	Municipal	211.3	0.0000	51.7	247.7
J-77	Municipal	211.7	0.3611	51.1	247.7
J-78	Municipal	213.1	1.3044	49.1	247.7
J-79	Municipal	214.3	1.3381	47.3	247.6
J-80	Municipal	215.6	1.3717	45.3	247.5
J-81	Industrial	217.1	0.8434	80.3	273.7
J-82	Municipal	217.1	0.9966	43.2	247.5
J-83	Municipal	217.7	0.0000	42.3	247.5
J-84	Municipal	216.7	0.0000	43.8	247.6
J-85	Municipal	216.6	0.0000	44.3	247.8
J-86	Municipal	217.6	0.0000	42.9	247.8
J-87	Municipal	214.6	2.6930	47.2	247.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.7894	45.8	247.9
J-90	Municipal	216.3	1.1141	44.8	247.9
J-91	Municipal	215.8	0.7894	45.3	247.7
J-92	Municipal	214.2	1.0638	47.8	247.9
J-93	Municipal	214.2	1.0974	47.6	247.7
J-94	Municipal	213.3	0.6355	49.0	247.8
J-95	Municipal	180.6	1.8196	95.4	247.8
J-96	Municipal	180.6	0.0000	95.4	247.8
J-97	Municipal	188.7	0.0000	85.3	248.8
J-98	Municipal	190.2	0.0000	82.6	248.4
J-99	Municipal	187.7	1.2345	86.1	248.4
J-100	Municipal	202.4	0.6019	65.0	248.2
J-101	Municipal	204.0	0.0000	62.7	248.2
J-102	Municipal	201.4	0.6019	66.4	248.1
J-103	Municipal	205.6	0.6019	60.3	248.1
J-104	Municipal	180.2	0.0000	95.4	247.4
J-105	Municipal	179.8	0.0000	95.8	247.3
J-106	Municipal	184.1	0.0000	89.7	247.3
J-107	Municipal	182.6	0.0000	91.8	247.3
J-109	East Hill Pressure Zone	226.7	0.0000	82.3	284.7
J-115	Municipal	182.6	0.0000	91.7	247.2
J-116	Municipal	188.2	0.0000	83.6	247.1
J-117	Municipal	189.0	0.1036	82.4	247.1
J-118	Municipal	217.2	0.9966	42.4	247.0
J-119	Municipal	218.6	0.0000	40.4	247.0
J-120	Municipal	217.2	0.6860	42.3	247.0
J-121	Municipal	217.4	1.4920	42.1	247.0
J-122	East Hill Pressure Zone	238.0	0.0000	81.1	295.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	6.5577	78.1	295.1
J-124	Municipal	217.0	0.8399	42.6	247.0
J-125	Municipal	217.0	0.5486	42.6	247.0
J-126	Municipal	216.6	0.4284	43.2	247.0
J-127	Municipal	216.1	1.2514	43.9	247.0
J-128	Municipal	215.3	0.0000	45.0	247.0
J-129	Municipal	212.6	0.0868	48.8	247.0
J-130	Municipal	213.1	0.4451	48.1	247.0
J-131	Municipal	213.6	1.1506	47.3	246.9
J-132	Municipal	213.8	1.6125	47.0	246.9
J-133	Municipal	211.7	0.9602	50.0	246.9
J-134	Municipal	213.6	1.4249	47.3	246.9
J-135	Municipal	211.6	0.1875	50.3	247.0
J-136	Municipal	210.8	0.5486	51.4	247.0
J-137	Municipal	211.4	1.3044	50.5	247.0
J-138	Municipal	211.2	6.0748	50.6	246.9
J-139	Municipal	214.7	1.7860	45.6	246.8
J-140	Municipal	211.8	0.9433	49.8	246.9
J-141	Municipal	212.6	0.0000	48.6	246.9
J-142	Municipal	210.7	1.0807	51.3	246.9
J-143	Municipal	209.8	1.8699	52.6	246.9
J-144	Municipal	211.2	0.9602	50.7	246.9
J-145	Municipal	209.7	2.4187	53.2	247.2
J-146	Municipal	210.2	3.1242	52.1	246.9
J-147	Municipal	209.0	3.3986	53.7	246.8
J-148	Municipal	181.6	0.0000	92.7	246.9
J-149	Municipal	180.4	0.0000	94.9	247.2
J-150	Municipal	177.7	0.0000	98.5	247.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.5486	97.5	247.1
J-152	Municipal	178.7	0.0000	96.9	247.0
J-153	Municipal	179.6	0.0000	95.5	246.9
J-154	Municipal	178.9	0.3779	96.5	246.9
J-155	Municipal	190.6	3.9472	79.8	246.8
J-156	Municipal	179.4	0.6019	95.8	246.9
J-157	Municipal	178.6	0.6019	97.0	247.0
J-158	Municipal	186.2	1.0639	86.2	246.9
J-159	Municipal	179.6	0.7894	95.6	247.0
J-160	Municipal	187.8	3.8968	84.0	247.0
J-161	Municipal	184.1	0.0000	89.2	247.0
J-162	Municipal	178.3	0.0000	97.5	247.0
J-163	Municipal	187.1	0.0000	84.7	246.8
J-164	Municipal	189.6	3.5862	81.1	246.7
J-165	Municipal	189.8	0.4115	80.8	246.7
J-166	Municipal	189.4	0.2745	81.4	246.8
J-167	Municipal	196.8	0.5150	70.8	246.7
J-168	Municipal	199.6	0.0000	66.8	246.7
J-169	Municipal	204.1	0.0000	60.4	246.7
J-170	Municipal	202.2	0.8399	63.1	246.7
J-171	Municipal	194.7	0.3246	73.8	246.7
J-172	Municipal	190.1	0.4115	80.4	246.8
J-173	Municipal	187.7	0.0000	84.1	247.0
J-176	East Hill Pressure Zone	240.0	0.0000	78.2	295.1
J-177	East Hill Pressure Zone	239.0	6.5576	79.6	295.1
J-178	Municipal	180.6	0.0000	94.1	246.9
J-179	Municipal	202.2	0.0000	63.4	246.9
J-180	Municipal	211.5	0.0000	50.2	246.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	97.4	247.0
J-182	Municipal	178.1	0.0000	97.9	247.1
J-183	Municipal	178.1	0.0000	97.9	247.1
J-184	Municipal	178.7	0.0000	96.9	247.0
J-185	Municipal	182.1	0.0000	92.1	247.0
J-186	Municipal	187.8	0.0000	84.0	247.0
J-187	Municipal	195.4	0.0000	73.2	247.0
J-188	Municipal	187.3	0.0000	84.5	246.8
J-189	Municipal	188.2	0.0000	83.1	246.8
J-190	Municipal	190.1	0.0000	80.4	246.7
J-191	Municipal	191.7	0.0000	78.1	246.8
J-192	Municipal	202.6	0.0000	62.7	246.8
J-193	Municipal	185.3	1.1338	87.1	246.7
J-194	Municipal	200.0	0.0000	66.3	246.7
J-195	Municipal	201.6	1.7860	63.8	246.6
J-196	Municipal	202.6	2.2647	62.4	246.6
J-197	Municipal	205.1	0.0000	58.9	246.6
J-198	Municipal	200.6	0.0000	65.3	246.6
J-199	Municipal	199.2	0.7894	67.2	246.5
J-200	Municipal	201.6	1.5957	63.8	246.5
J-201	Municipal	203.9	0.0000	60.5	246.5
J-202	Municipal	204.2	0.0000	60.0	246.5
J-203	Municipal	186.6	0.1372	85.0	246.5
J-204	Municipal	186.1	1.0806	85.7	246.5
J-205	Municipal	182.1	0.6019	91.3	246.4
J-206	Municipal	178.8	0.0000	96.0	246.4
J-208	Municipal	188.1	0.3246	82.8	246.4
J-209	Municipal	188.3	0.0000	82.5	246.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	70.5	246.5
J-211	Municipal	185.2	0.0000	86.9	246.4
J-212	Municipal	183.8	1.0470	88.9	246.4
J-213	Municipal	182.7	0.0000	90.5	246.4
J-214	Municipal	185.6	0.0000	86.4	246.4
J-215	Municipal	186.8	0.4647	84.7	246.4
J-216	Municipal	186.1	1.0134	85.7	246.4
J-217	Municipal	220.4	0.1540	37.8	247.0
J-219	Municipal	218.5	0.0000	40.5	247.0
J-220	Municipal	220.5	0.0000	37.7	247.0
J-223	Spring	188.2	0.0000	47.8	221.9
J-224	Spring	187.3	0.0000	49.1	221.9
J-225	Spring	186.7	0.9770	50.0	221.9
J-226	Spring	185.9	1.6657	51.1	221.9
J-227	Spring	186.1	0.7558	50.8	221.9
J-228	Spring	186.6	1.0638	50.1	221.9
J-229	Spring	186.6	1.6461	50.1	221.9
J-230	Spring	187.4	0.6859	49.0	221.9
J-231	Spring	189.6	1.1674	45.9	221.9
J-232	Spring	186.1	1.6461	50.8	221.9
J-233	Spring	186.4	1.2513	50.4	221.9
J-234	Spring	188.7	1.0807	47.2	221.9
J-235	Spring	194.3	0.0000	39.2	221.9
J-236	Spring	184.1	1.0638	53.7	221.9
J-237	Spring	185.6	0.8062	51.6	222.0
J-238	Spring	187.2	1.0806	49.4	222.0
J-239	Spring	190.1	0.6859	45.3	222.0
J-240	Spring	182.1	1.0470	57.1	222.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	1.0972	56.3	222.3
J-242	Spring	183.6	0.8930	55.0	222.3
J-243	Spring	185.7	1.9232	51.8	222.2
J-244	Spring	187.9	0.8930	48.6	222.1
J-245	Spring	180.1	0.0000	60.2	222.5
J-246	Spring	180.2	1.0806	60.4	222.8
J-247	Spring	181.2	0.2743	59.4	223.1
J-248	Spring	182.2	0.1204	58.3	223.3
J-249	Spring	185.6	0.9966	52.7	222.8
J-250	Spring	179.9	0.0000	63.2	224.4
J-251	Spring	181.6	0.0000	60.6	224.3
J-252	Spring	183.6	3.1074	57.7	224.3
J-253	Spring	180.1	0.2407	65.2	226.0
J-254	Spring	183.9	1.3044	59.7	226.0
J-255	Spring	178.2	1.1841	72.3	229.2
J-256	Spring	184.1	1.6657	61.9	227.7
J-257	Spring	188.3	1.5957	55.5	227.4
J-258	Spring	182.8	0.7894	66.5	229.6
J-259	Spring	190.6	0.6187	54.8	229.2
J-260	Spring	183.8	1.9568	64.8	229.4
J-261	Spring	190.1	0.0000	55.8	229.4
J-262	Spring	180.6	0.1372	69.3	229.4
J-263	Spring	179.8	0.5823	59.2	221.5
J-264	Spring	182.6	1.4249	55.6	221.8
J-265	Spring	181.8	0.0000	56.0	221.2
J-267	Spring	182.6	0.7195	53.7	220.4
J-268	Spring	184.6	0.3443	50.8	220.4
J-269	Spring	181.3	5.1817	55.5	220.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.5823	57.5	220.9
J-271	Spring	180.8	1.5285	56.1	220.3
J-272	Spring	179.8	2.3347	57.5	220.3
J-273	Spring	179.6	0.0000	58.0	220.5
J-274	Spring	178.8	3.8436	59.3	220.5
J-275	Spring	180.1	0.8062	57.0	220.2
J-276	Spring	179.8	0.8398	57.3	220.2
J-277	Spring	179.1	0.7195	58.4	220.2
J-278	Spring	178.8	4.2719	58.8	220.2
J-279	Spring	177.9	0.0000	60.2	220.3
J-280	Spring	179.5	0.0000	57.8	220.2
J-281	Spring	178.8	0.0000	58.8	220.2
J-282	Spring	186.1	1.0974	48.3	220.1
J-283	Spring	182.6	2.8666	53.3	220.1
J-284	Spring	179.4	1.1674	57.9	220.2
J-285	Spring	179.2	0.6523	58.1	220.2
J-286	Spring	178.9	0.0000	58.6	220.2
J-287	Spring	178.6	0.0000	59.1	220.2
J-288	Spring	178.4	1.9400	59.4	220.2
J-289	Spring	177.9	0.0000	60.2	220.3
J-291	Industrial	189.3	0.0000	120.7	274.3
J-292	Industrial	183.5	18.2949	128.5	274.0
J-293	Industrial	201.7	0.0000	103.0	274.2
J-294	Industrial	211.4	0.0000	88.9	274.0
J-295	Industrial	214.4	0.0000	84.5	273.9
J-296	Industrial	218.6	4.5189	78.3	273.8
J-297	Industrial	214.4	0.0000	84.6	274.0
J-298	Industrial	214.2	0.0000	84.7	273.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	4.5189	83.8	273.8
J-300	Industrial	213.8	0.8861	85.3	273.9
J-301	Industrial	214.6	0.0000	84.1	273.8
J-302	Industrial	214.8	20.0244	83.5	273.6
J-303	Industrial	218.6	0.0000	78.3	273.8
J-304	Industrial	222.8	28.0278	71.9	273.5
J-305	Industrial	220.7	0.0000	75.3	273.8
J-306	Industrial	226.2	0.0000	67.5	273.8
J-307	Industrial	219.6	0.0000	76.9	273.7
J-308	Industrial	225.8	0.0000	68.1	273.7
J-309	Industrial	216.7	11.3314	80.8	273.6
J-310	Industrial	217.1	0.0000	80.4	273.7
J-311	Industrial	218.2	0.8861	78.7	273.6
J-312	Industrial	218.0	0.8861	79.0	273.7
J-313	Industrial	220.3	0.0000	75.8	273.7
J-314	Industrial	221.3	0.0000	74.4	273.7
J-315	Industrial	218.7	0.8861	78.0	273.7
J-316	Industrial	217.1	0.7123	80.3	273.7
J-317	Industrial	218.7	0.3448	78.0	273.7
J-318	Industrial	220.4	0.0000	75.6	273.6
J-319	Industrial	219.4	0.7123	77.0	273.6
J-320	Industrial	219.8	0.5186	76.4	273.6
J-321	Industrial	222.4	0.5186	72.7	273.6
J-322	Industrial	224.3	0.5186	70.0	273.6
J-323	Industrial	221.4	0.3448	74.2	273.6
J-324	Industrial	220.6	0.3448	75.3	273.6
J-325	Industrial	226.6	0.3448	66.8	273.7
J-326	Municipal	189.3	0.0000	82.1	247.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	88.8	247.2
J-328	Municipal	178.4	0.0000	99.0	248.2
J-329	Municipal	211.7	0.0000	51.7	248.1
J-330	Municipal	211.8	0.0000	51.6	248.1
J-331	Municipal	214.6	0.0000	47.6	248.1
J-332	Municipal	213.4	0.0000	49.2	248.1
J-333	Spring	178.7	0.0000	69.6	227.7
J-334	Spring	178.2	0.0000	72.7	229.4
J-335	East Hill Pressure Zone	245.9	0.0000	73.8	297.9
J-336	East Hill Pressure Zone	240.2	0.0000	80.8	297.1
J-337	East Hill Pressure Zone	250.6	0.0000	63.8	295.5
J-338	East Hill Pressure Zone	236.0	0.0000	84.5	295.5
J-339	Industrial	219.6	0.0000	76.7	273.6
J-340	Industrial	218.2	0.0000	78.7	273.7
J-341	Municipal	210.6	0.0000	51.6	247.0
J-342	Municipal	211.1	0.0000	50.9	247.0
J-343	Municipal	181.1	0.0000	93.4	246.9
J-344	Municipal	187.5	0.0000	84.3	246.9
J-345	Municipal	189.1	0.0000	82.0	246.9
J-346	Municipal	188.1	0.0000	83.4	246.9
J-347	Municipal	209.6	0.0000	52.9	246.8
J-348	Municipal	206.3	0.0000	57.6	246.9
J-349	Municipal	189.2	0.0000	81.9	246.9
J-351	Municipal	209.5	0.0000	53.0	246.9
J-353	Municipal	216.5	0.0000	43.1	246.9
J-354	Municipal	217.0	0.0000	42.4	246.9
J-355	Municipal	212.0	0.0000	49.5	246.9
J-356	Municipal	200.0	0.0000	66.4	246.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	66.4	246.8
J-358	Municipal	200.0	0.0000	66.4	246.8
J-359	Municipal	200.0	0.0000	66.7	247.0
J-360	Municipal	202.0	0.0000	63.8	247.0
J-361	Municipal	201.0	0.0000	65.2	247.0
J-362	Municipal	199.0	0.0000	68.1	247.0
J-363	Municipal	205.5	0.0000	58.7	246.9
J-364	Municipal	205.0	0.0000	59.4	246.9
J-366	Municipal	180.0	0.0000	94.9	246.9
J-367	Municipal	185.0	0.0000	87.8	246.9
J-368	Municipal	180.0	0.0000	94.9	246.9
J-369	Municipal	195.0	0.0000	73.6	246.9
J-370	Municipal	195.0	0.0000	73.6	246.9
J-371	Municipal	210.0	0.0000	52.3	246.9
J-372	Municipal	207.5	0.0000	55.9	246.9
J-373	Municipal	200.0	0.0000	66.5	246.9
J-374	Municipal	208.0	0.0000	55.2	246.9
J-375	Municipal	208.0	0.0000	55.2	246.9
J-376	Municipal	205.0	0.0000	59.4	246.9
J-377	Municipal	203.5	0.0000	61.3	246.7
J-378	Municipal	203.5	0.0000	61.3	246.7
J-381	Municipal	180.0	0.0000	94.3	246.5
J-382	Municipal	180.0	0.0000	94.4	246.5
J-383	Municipal	178.0	0.0000	97.5	246.7
J-384	Municipal	185.0	0.0000	87.8	246.9
J-385	Municipal	185.0	0.0000	87.8	246.9
J-386	Spring	185.0	0.0000	50.0	220.2
J-387	Spring	180.5	0.0000	56.4	220.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	50.1	220.3
J-389	Spring	185.0	0.0000	50.1	220.3
J-390	Spring	185.0	0.0000	50.1	220.3
J-391	Spring	185.0	0.0000	50.1	220.3
J-392	Municipal	210.0	0.0000	52.4	246.9
J-393	Municipal	206.0	0.0000	58.1	246.9
J-394	Municipal	210.0	0.0000	52.4	246.9
J-395	Municipal	209.8	0.0000	53.0	247.1
J-396	Municipal	206.0	0.0000	58.4	247.1
J-397	Municipal	213.0	0.0000	48.1	246.9
J-398	Municipal	214.0	0.0000	46.7	246.9
J-400	Municipal	220.0	0.0000	38.1	246.9
J-401	Municipal	207.5	0.0000	55.9	246.8
J-402	Municipal	207.5	0.0000	55.9	246.9
J-403	Municipal	214.5	0.0000	45.9	246.9
J-404	Municipal	216.0	0.0000	43.8	246.9
J-405	Municipal	220.0	0.0000	38.2	246.9
J-406	Municipal	210.5	0.0000	51.8	247.0
J-407	Municipal	205.0	0.0000	59.6	247.0
J-408	Municipal	210.0	0.0000	52.5	247.0
J-409	Municipal	212.5	0.0000	48.9	246.9
J-410	Municipal	212.0	0.0000	49.6	246.9
J-411	Municipal	215.0	0.0000	45.3	246.9
J-412	Municipal	214.3	0.0000	46.3	246.9
J-413	Municipal	216.0	0.0000	43.9	246.9
J-414	Municipal	214.5	0.0000	46.2	247.0
J-415	Municipal	213.1	0.0000	48.2	247.0
J-416	Municipal	218.0	0.0000	41.2	247.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	41.2	247.0
J-418	Municipal	218.0	0.0000	41.2	247.0
J-419	Municipal	218.0	0.2575	41.2	247.0
J-420	Municipal	218.0	0.0000	41.2	247.0
J-421	Municipal	216.0	0.0000	44.0	247.0
J-422	Municipal	216.0	0.0000	44.0	247.0
J-423	Municipal	215.0	0.0000	45.5	247.0
J-424	Municipal	210.0	0.0000	52.6	247.0
J-425	Spring	186.0	0.0000	51.0	221.9
J-426	Municipal	181.5	0.0000	93.0	247.1
J-428	Spring	186.0	0.0000	51.0	221.9
J-429	Spring	185.0	0.0000	52.4	221.9
J-430	Spring	185.0	0.0000	52.4	221.9
J-431	Spring	185.0	0.0000	52.4	221.9
J-432	Spring	190.0	0.0000	45.1	221.8
J-433	Municipal	208.0	0.0000	55.3	247.0
J-434	Municipal	206.0	0.0000	58.1	247.0
J-435	Municipal	219.5	0.0000	39.1	247.0
J-436	Municipal	178.0	0.0000	98.1	247.1
J-437	Spring	178.0	0.0000	73.0	229.4
J-438	Spring	178.0	0.0000	68.1	226.0
J-439	Spring	185.0	0.0000	52.4	221.9
J-440	Spring	187.0	0.0000	49.6	221.9
J-441	Spring	185.0	0.0000	52.4	221.9
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	53.9	254.5
J-443	East Hill Reduced Pressure Zone	216.0	0.0000	54.6	254.5
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	54.9	254.7
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	54.9	254.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	54.9	254.7
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	54.2	254.7
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	54.2	254.7
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	54.3	255.3
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	54.3	255.3
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	53.0	254.9
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	53.0	254.9
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	55.6	255.6
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	55.6	255.6
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	55.6	255.6
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	56.3	255.7
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	56.3	255.7
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	58.0	255.9
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	58.0	255.9
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	58.0	255.9
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	58.0	255.9
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	54.3	256.2
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	55.7	256.2
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	56.0	256.4
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	63.1	256.4
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	55.9	256.4
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	62.0	256.4
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	54.5	256.4
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	58.7	256.3
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	59.9	256.2
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	60.1	256.1
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	52.8	256.2
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	55.7	256.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	58.5	256.2
J-475	East Hill Reduced Pressure Zone	194.0	0.0425	72.9	245.3
J-477	Spring	185.0	0.0000	53.4	222.6
J-478	Spring	195.0	0.0000	38.5	222.1
J-479	Spring	192.0	0.0000	42.8	222.1
J-480	Spring	181.0	0.0000	61.7	224.4
J-481	Industrial	231.0	0.0000	60.5	273.6
J-482	Municipal	216.3	0.0000	44.3	247.5
J-483	Municipal	180.0	0.0000	96.3	247.9
J-484	Municipal	179.0	0.0000	97.8	247.9
J-485	Municipal	178.0	0.0000	99.6	248.1
J-486	Municipal	178.0	0.0000	99.6	248.1
J-487	Municipal	179.0	0.0000	98.3	248.2
J-490	Municipal	178.5	0.0000	98.3	247.8
J-491	Municipal	212.5	0.0000	50.1	247.8
J-492	Municipal	213.0	0.0000	49.4	247.8
J-493	Municipal	215.0	0.0000	46.4	247.7
J-495	Municipal	213.0	0.0000	49.8	248.1
J-496	Municipal	214.5	0.0000	47.7	248.1
J-497	Municipal	180.0	0.0000	97.3	248.5
J-498	Municipal	180.0	0.0000	97.3	248.5
J-499	Municipal	180.0	0.0000	97.3	248.5
J-500	Municipal	180.0	0.0000	97.3	248.5
J-501	Municipal	180.0	0.0000	97.3	248.5
J-502	Municipal	207.0	0.0000	58.4	248.1
J-503	Municipal	206.7	0.0000	58.8	248.1
J-504	Municipal	207.5	0.0000	57.7	248.1
J-505	Municipal	212.0	0.0000	51.3	248.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	56.4	248.1
J-507	Municipal	205.5	0.0000	60.5	248.1
J-508	Municipal	213.0	0.0000	49.8	248.1
J-509	Municipal	215.0	0.0000	47.0	248.1
J-510	Municipal	215.5	0.0000	46.3	248.1
J-511	Industrial	213.5	0.0000	85.8	273.9
J-512	Industrial	218.0	0.0000	79.0	273.6
J-514	Industrial	220.0	0.0000	76.2	273.7
J-515	Municipal	214.0	0.0000	46.9	247.0
J-516	Municipal	214.0	0.0000	46.9	247.0
J-517	Municipal	216.0	0.0000	44.1	247.0
J-518	Municipal	216.0	0.0000	44.1	247.0
J-520	Municipal	217.0	0.0000	42.6	247.0
J-521	Municipal	217.0	0.0000	42.6	247.0
J-525	Municipal	178.8	0.0000	97.1	247.2
J-526	Municipal	179.6	0.0000	95.9	247.2
J-527	Spring	182.0	0.0000	57.3	222.4
J-528	Spring	182.0	0.0000	57.3	222.4
J-529	Municipal	179.0	0.0000	96.4	246.9
J-530	Municipal	179.0	0.0000	96.4	246.9
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	60.9	256.1
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	64.0	256.1
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	62.7	256.1
J-534	Municipal	178.0	0.0000	97.9	247.0
J-535	East Hill Pressure Zone	230.0	0.0000	96.1	297.7
J-536	East Hill Pressure Zone	228.4	0.0000	98.3	297.7
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	34.2	256.0
J-538	East Hill Pressure Zone	240.0	0.0000	81.6	297.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	96.7	247.1
J-540	Municipal	178.0	0.0000	98.1	247.1
J-542	Spring	190.5	0.0000	55.2	229.4
J-543	Spring	184.0	0.0000	64.6	229.5
J-544	Municipal	217.0	0.0000	43.3	247.5
J-545	Municipal	217.5	0.0000	42.6	247.5
J-546	Municipal	217.5	0.0000	42.6	247.5
J-547	Industrial	219.0	0.0000	77.6	273.7
J-548	Industrial	219.0	0.0000	77.6	273.7
J-549	Industrial	219.5	0.0000	76.9	273.7
J-550	Industrial	217.0	1.3619	80.4	273.7
J-552	Industrial	217.5	0.0000	79.9	273.8
J-553	Industrial	218.0	0.0000	79.1	273.7
J-554	Municipal	212.0	0.0000	51.3	248.1
J-555	Municipal	178.0	3.0178	98.6	247.5
J-556	Municipal	179.5	0.0000	97.1	247.9
J-557	Municipal	183.0	0.0000	92.2	247.9
J-558	Industrial	215.0	0.0000	83.8	274.0
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	50.7	255.7
J-560	Municipal	217.2	0.0000	42.4	247.0
J-561	Municipal	185.0	0.0000	88.1	247.0
J-562	Industrial	220.3	0.0000	75.8	273.7
J-563	Industrial	218.7	0.0000	78.0	273.7
J-564	Non-Supply	246.0	0.0000	2.2	247.6
J-565	Industrial	179.5	0.0000	161.6	293.3
J-566	Industrial	179.5	0.0000	161.6	293.3
J-567	Industrial	179.5	0.0000	161.6	293.3
J-568	Industrial	179.5	0.0000	161.6	293.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	134.9	274.5
J-570	Industrial	179.5	0.0000	134.8	274.5
J-571	Industrial	179.5	0.0000	161.6	293.3
J-572	Industrial	179.5	0.0000	134.8	274.5
J-573	Municipal	185.5	0.0000	90.0	248.9
J-574	Municipal	185.5	0.0000	90.0	248.9
J-575	Municipal	185.5	0.0000	90.0	248.9
J-576	Municipal	185.5	0.0000	89.9	248.9
J-578	Municipal	188.5	0.0000	85.7	248.9
J-579	Non-Supply	243.0	0.0000	6.4	247.5
J-580	Non-Supply	243.0	0.0000	6.4	247.5
J-581	East Hill Pressure Zone	243.0	0.0000	79.9	299.3
J-582	East Hill Pressure Zone	243.0	0.0000	79.9	299.3
J-583	East Hill Pressure Zone	243.5	0.0000	73.8	295.5
J-584	East Hill Pressure Zone	243.3	0.0000	74.1	295.5
J-585	Industrial	222.5	0.0000	72.7	273.7
J-586	Industrial	220.6	0.0000	75.4	273.7
J-587	Industrial	221.0	0.0000	74.9	273.7
J-588	Industrial	220.1	0.0000	76.1	273.7
J-589	Industrial	220.4	0.0000	75.7	273.7
J-590	Industrial	224.6	0.0000	69.8	273.7
J-591	Spring	188.3	0.0000	54.5	226.7
J-592	Spring	188.3	0.0000	53.3	225.8
J-593	Spring	188.3	0.0000	53.3	225.8
J-594	Municipal	182.8	0.0000	91.9	247.5
J-595	Industrial	243.3	0.0000	43.2	273.7
J-596	Industrial	229.0	0.0000	63.5	273.7
J-597	East Hill Pressure Zone	229.0	0.0000	94.0	295.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	0.0000	61.8	295.5
J-600	East Hill Pressure Zone	244.5	0.0000	72.4	295.5
J-601	Spring	188.7	0.0000	57.8	229.4
J-602	Municipal	181.5	0.0000	93.0	247.1
J-603	Spring	179.2	0.0000	58.7	220.5
J-604	Spring	179.2	0.0000	58.7	220.5
J-605	Spring	186.7	0.0000	50.0	221.9
J-606	Spring	186.7	0.0000	50.0	221.9
J-607	Municipal	212.1	0.0000	51.2	248.1
J-608	Municipal	215.1	0.0000	46.2	247.6
J-609	Municipal	214.4	0.0000	47.8	248.1
J-610	Industrial	225.8	0.0000	68.1	273.7
J-611	Industrial	225.8	0.0000	68.1	273.7
J-612	Municipal	213.0	0.0000	49.8	248.1
J-613	Municipal	213.0	0.0000	49.8	248.1
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	44.7	257.5
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	43.2	257.5
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	44.7	257.5
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	44.1	256.0
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	51.1	256.0
J-620	Municipal	205.1	0.0000	58.9	246.6
J-621	Municipal	219.5	0.0000	39.1	247.0
J-622	Municipal	216.5	0.0000	43.3	247.0
J-623	Municipal	219.5	0.0000	39.1	247.0
J-624	Municipal	216.5	0.0000	43.3	247.0
J-626	Municipal	220.0	0.0000	38.2	246.9
J-627	Municipal	178.4	0.0000	97.4	247.0
J-628	Municipal	186.2	0.0000	86.2	246.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	91.7	247.2
J-631	Spring	184.6	0.0000	52.8	221.8
J-632	Municipal	183.6	0.0000	90.2	247.2
J-633	Municipal	187.3	0.0000	84.9	247.1
J-634	Municipal	190.0	0.0000	81.1	247.1
J-635	Municipal	180.1	0.0000	95.6	247.4
J-639	Industrial	229.0	0.0000	63.5	273.7
J-640	Municipal	182.1	0.0000	92.7	247.4
J-641	Industrial	224.6	0.0000	69.8	273.7
J-642	Industrial	224.6	0.0000	69.8	273.7
J-643	Industrial	224.6	0.0000	69.8	273.7
J-644	Municipal	180.0	0.0000	96.3	247.9
J-645	Industrial	224.6	0.0000	69.8	273.7
J-646	Industrial	224.6	0.0000	69.8	273.7
J-647	Municipal	213.0	0.0000	49.1	247.6
J-648	Municipal	219.5	0.0700	39.1	247.0
J-649	Municipal	218.0	0.0700	41.2	247.0
J-650	Municipal	219.5	0.1204	39.1	247.0
J-651	Municipal	219.5	0.0700	39.1	247.0
J-652	Municipal	218.0	0.1204	41.2	247.0
J-653	Municipal	218.0	0.0700	41.2	247.0
J-654	Municipal	220.9	0.0868	37.1	247.0
J-658	Municipal	220.5	0.0000	37.7	247.0
J-659	Municipal	186.0	0.0000	86.7	247.1
J-661	Municipal	178.4	0.0000	99.0	248.2
J-662	Spring	190.0	0.0000	55.9	229.4
J-663	Municipal	213.8	0.0000	47.9	247.6
J-664	Municipal	196.0	0.0000	72.0	246.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	81.4	246.8
J-666	Municipal	187.0	0.0000	84.8	246.8
J-667	Municipal	187.2	0.0000	84.6	246.8
J-668	Municipal	178.5	0.0000	97.2	247.0
J-669	Non-Supply	245.0	0.0000	3.5	247.5
J-670	Non-Supply	242.0	0.0000	7.8	247.5
J-671	East Hill Pressure Zone	243.8	0.0000	78.7	299.3
J-672	East Hill Pressure Zone	243.0	0.0000	79.9	299.3
J-673	Industrial	187.0	0.0000	124.2	274.5
J-674	Spring	186.3	0.0000	50.4	221.8
J-675	Industrial	221.5	0.4530	74.1	273.6
J-676	Industrial	220.0	0.0000	76.1	273.6
J-677	Industrial	226.9	0.4530	66.3	273.6
J-678	Industrial	221.4	0.0000	74.2	273.6
J-679	Municipal	214.4	0.0000	46.3	247.0
J-680	Municipal	214.3	0.0000	46.5	247.0
J-681	Municipal	213.1	0.1540	48.2	247.0
J-682	Municipal	214.9	0.0000	47.1	248.1
J-683	Municipal	218.0	0.0000	41.2	247.0
J-684	East Hill Pressure Zone	234.5	0.0000	86.2	295.2
J-685	East Hill Pressure Zone	242.0	0.0000	75.5	295.2
J-687	Spring	188.6	0.0000	57.8	229.3
J-688	Spring	192.0	0.0000	52.9	229.3
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	(N/A)	(N/A)	(N/A)
J-692	Industrial	214.0	(N/A)	(N/A)	(N/A)
J-693	Industrial	222.0	(N/A)	(N/A)	(N/A)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	(N/A)	(N/A)	(N/A)
J-695	East Hill Pressure Zone	237.0	(N/A)	(N/A)	(N/A)
J-696	East Hill Pressure Zone	242.0	(N/A)	(N/A)	(N/A)
J-697	East Hill Pressure Zone	242.0	(N/A)	(N/A)	(N/A)
J-698	Industrial	189.0	0.0000	120.8	274.1
J-699	Industrial	200.0	(N/A)	(N/A)	(N/A)
J-700	Municipal	200.0	(N/A)	(N/A)	(N/A)
J-701	Industrial	201.7	(N/A)	(N/A)	(N/A)
J-702	Spring	185.9	0.0000	51.1	221.9
J-703	Spring	185.9	(N/A)	(N/A)	(N/A)
J-704	Spring	189.6	(N/A)	(N/A)	(N/A)
J-705	Spring	189.6	(N/A)	(N/A)	(N/A)
J-706	Industrial	234.0	(N/A)	(N/A)	(N/A)
J-707	Industrial	238.0	(N/A)	(N/A)	(N/A)
J-708	Industrial	236.0	(N/A)	(N/A)	(N/A)
J-709	East Hill Pressure Zone	230.0	0.0000	92.6	295.2
J-710	Industrial	210.0	0.0000	90.8	273.9
J-711	Non-Supply	232.0	(N/A)	(N/A)	(N/A)
J-712	Non-Supply	250.0	(N/A)	(N/A)	(N/A)
J-713	Municipal	216.0	1.0688	45.6	248.1
J-714	Municipal	209.0	0.4788	55.5	248.1
J-715	Municipal	209.5	0.0000	54.8	248.1
J-716	Municipal	208.5	0.4788	56.2	248.1
J-717	Municipal	208.0	0.4788	56.9	248.1
J-718	Municipal	204.0	0.4788	62.6	248.1
J-719	Municipal	202.0	0.4788	65.5	248.1
J-720	Municipal	209.5	1.0688	54.8	248.1



BURNSIDE

2005 – MDD plus Fire Flow

2005 - MDD plus Fire Flow

Scenario Summary

<General>

Scenario Id	87
Scenario Label	10 - 2005 - MDD (1.9*ADD)
Scenario Notes	Created: 11/02/06 08:52:27 AM
Calculation Options ID	67
Calculation Options Label	10 - 2005 - MDD (Monthly)
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Fire Flow

Alternatives

Active Topology	23: Base-Active Topology
Physical	27: Base-Physical-EP-2-CS
Demand	1908: 2005 Modified - MDD (1.9*ADD)
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags

Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

2005 - MDD plus Fire Flow

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-2	East Hill Pressure Zone	227.0000	86.3067	26.9	J-599	20.0
J-3	East Hill Pressure Zone	227.0000	114.4612	28.1	J-599	20.0
J-4	East Hill Pressure Zone	227.0000	195.9845	71.7	J-28	20.0
J-5	East Hill Pressure Zone	227.0000	176.4899	73.7	J-28	20.0
J-6	East Hill Pressure Zone	227.0000	150.2058	20.8	J-599	20.0
J-7	East Hill Reduced Pressure Zone	227.0000	117.3387	25.9	J-537	20.0
J-8	East Hill Pressure Zone	227.0000	134.4968	20.0	J-599	20.0
J-9	East Hill Pressure Zone	227.0000	114.1185	22.4	J-538	20.0
J-10	East Hill Pressure Zone	227.0000	107.3027	48.4	J-599	20.0
J-11	East Hill Pressure Zone	227.0000	89.9375	47.2	J-599	20.0
J-12	East Hill Pressure Zone	227.0000	79.5691	42.0	J-599	20.0
J-13	East Hill Pressure Zone	227.0000	78.7691	40.6	J-599	20.0
J-14	East Hill Pressure Zone	227.0000	76.3102	20.0	J-599	20.0
J-15	East Hill Pressure Zone	227.0000	77.6143	42.6	J-599	20.0
J-16	East Hill Pressure Zone	227.0000	77.5590	25.6	J-599	20.0
J-17	East Hill Pressure Zone	227.0000	77.5261	27.4	J-599	20.0
J-18	East Hill Pressure Zone	227.0000	36.6470	20.1	J-28	20.0
J-19	East Hill Pressure Zone	227.0000	33.1812	79.1	J-28	20.0
J-20	East Hill Reduced Pressure Zone	227.0000	214.8447	20.0	J-615	20.0
J-21	East Hill Pressure Zone	227.0000	15.9185	20.1	J-28	20.0
J-22	East Hill Pressure Zone	227.0000	18.6725	75.9	J-28	20.0
J-23	East Hill Reduced Pressure Zone	227.0000	146.1055	20.0	J-614	20.0
J-24	East Hill Pressure Zone	227.0000	18.6409	57.3	J-28	20.0
J-25	East Hill Pressure Zone	227.0000	13.6588	42.1	J-28	20.0
J-26	East Hill Pressure Zone	227.0000	12.6968	33.4	J-28	20.0
J-27	East Hill Pressure Zone	227.0000	12.7075	42.6	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-28	East Hill Pressure Zone	227.0000	5.7325	20.1	J-26	20.0
J-29	East Hill Pressure Zone	227.0000	13.6322	73.8	J-28	20.0
J-30	East Hill Reduced Pressure Zone	227.0000	84.9021	23.2	J-31	20.0
J-31	East Hill Reduced Pressure Zone	227.0000	66.9709	20.0	J-537	20.0
J-32	East Hill Reduced Pressure Zone	227.0000	55.4086	22.1	J-33	20.0
J-33	East Hill Reduced Pressure Zone	227.0000	44.8309	20.0	J-442	20.0
J-34	East Hill Reduced Pressure Zone	227.0000	66.0328	22.9	J-33	20.0
J-35	East Hill Reduced Pressure Zone	227.0000	104.0652	25.1	J-31	20.0
J-36	East Hill Reduced Pressure Zone	227.0000	98.2493	26.8	J-31	20.0
J-37	East Hill Reduced Pressure Zone	227.0000	87.8940	22.0	J-456	20.0
J-38	East Hill Reduced Pressure Zone	227.0000	103.2794	20.0	J-456	20.0
J-39	East Hill Reduced Pressure Zone	227.0000	116.2466	20.0	J-471	20.0
J-40	East Hill Reduced Pressure Zone	227.0000	180.1888	24.8	J-31	20.0
J-41	East Hill Reduced Pressure Zone	227.0000	112.3742	21.1	J-31	20.0
J-42	East Hill Reduced Pressure Zone	227.0000	133.2305	20.4	J-31	20.0
J-43	East Hill Reduced Pressure Zone	227.0000	97.1565	20.3	J-44	20.0
J-44	East Hill Reduced Pressure Zone	227.0000	89.4999	20.0	J-537	20.0
J-45	East Hill Reduced Pressure Zone	227.0000	100.3340	20.0	J-44	20.0
J-46	East Hill Reduced Pressure Zone	227.0000	120.1174	20.0	J-47	20.0
J-47	East Hill Reduced Pressure Zone	227.0000	105.1966	20.0	J-537	20.0
J-48	East Hill Reduced Pressure Zone	227.0000	124.6323	20.3	J-47	20.0
J-49	East Hill Reduced Pressure Zone	227.0000	231.0295	23.4	J-31	20.0
J-50	East Hill Reduced Pressure Zone	227.0000	266.2611	22.8	J-31	20.0
J-51	East Hill Reduced Pressure Zone	227.0000	316.1772	20.0	J-53	20.0
J-52	East Hill Reduced Pressure Zone	227.0000	192.9166	20.0	J-537	20.0
J-53	East Hill Reduced Pressure Zone	227.0000	322.0752	20.0	J-537	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-54	East Hill Reduced Pressure Zone	227.0000	76.8022	30.1	J-617	20.0
J-55	East Hill Reduced Pressure Zone	227.0000	97.7895	20.0	J-537	20.0
J-56	East Hill Reduced Pressure Zone	227.0000	159.1179	23.8	J-537	20.0
J-57	East Hill Reduced Pressure Zone	227.0000	48.0819	20.0	J-537	20.0
J-58	East Hill Reduced Pressure Zone	227.0000	71.1236	20.0	J-617	20.0
J-59	East Hill Reduced Pressure Zone	227.0000	57.1393	31.5	J-537	20.0
J-60	East Hill Reduced Pressure Zone	227.0000	95.8815	27.4	J-537	20.0
J-61	Non-Supply	227.0000	0.0000	7.7	J-564	20.0
J-64	Non-Supply	227.0000	0.0000	13.3	J-564	20.0
J-65	Non-Supply	227.0000	0.0000	30.2	J-564	20.0
J-66	Municipal	227.0000	500.0000	29.7	J-654	20.0
J-67	Municipal	227.0000	456.9056	72.1	J-654	20.0
J-68	Municipal	227.0000	66.0001	20.7	J-482	20.0
J-69	Municipal	227.0000	60.7490	22.0	J-545	20.0
J-70	Municipal	227.0000	81.5621	20.0	J-545	20.0
J-71	Municipal	227.0000	94.4622	20.0	J-608	20.0
J-72	Municipal	227.0000	186.8908	20.0	J-73	20.0
J-73	Municipal	227.0000	105.5449	20.0	J-654	20.0
J-74	Municipal	227.0000	227.5244	20.0	J-75	20.0
J-75	Municipal	227.0000	202.1336	20.0	J-79	20.0
J-76	Municipal	227.0000	260.1353	20.0	J-74	20.0
J-77	Municipal	227.0000	195.5221	20.0	J-492	20.0
J-78	Municipal	227.0000	182.8618	20.6	J-493	20.0
J-79	Municipal	227.0000	146.4906	20.0	J-83	20.0
J-80	Municipal	227.0000	76.8915	20.8	J-83	20.0
J-81	Industrial	227.0000	157.0504	39.3	J-481	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-82	Municipal	227.0000	31.1802	20.0	J-83	20.0
J-83	Municipal	227.0000	30.0303	20.1	J-82	20.0
J-84	Municipal	227.0000	38.0276	20.0	J-83	20.0
J-85	Municipal	227.0000	40.0900	20.0	J-86	20.0
J-86	Municipal	227.0000	30.7136	20.0	J-85	20.0
J-87	Municipal	227.0000	118.0575	20.0	J-86	20.0
J-89	Municipal	227.0000	154.3086	20.4	J-86	20.0
J-90	Municipal	227.0000	193.8499	20.0	J-86	20.0
J-91	Municipal	227.0000	159.1311	20.0	J-493	20.0
J-92	Municipal	227.0000	148.3428	20.0	J-90	20.0
J-93	Municipal	227.0000	60.1535	21.2	J-493	20.0
J-94	Municipal	227.0000	71.7621	20.0	J-492	20.0
J-95	Municipal	227.0000	465.2148	66.1	J-654	20.0
J-96	Municipal	227.0000	460.4666	75.8	J-654	20.0
J-97	Municipal	227.0000	471.3217	61.5	J-654	20.0
J-98	Municipal	227.0000	171.2685	35.8	J-510	20.0
J-99	Municipal	227.0000	155.1548	20.0	J-510	20.0
J-100	Municipal	227.0000	127.9118	28.4	J-510	20.0
J-101	Municipal	227.0000	121.5056	28.8	J-510	20.0
J-102	Municipal	227.0000	115.9266	31.9	J-510	20.0
J-103	Municipal	227.0000	112.1916	28.6	J-510	20.0
J-104	Municipal	227.0000	407.1753	77.0	J-654	20.0
J-105	Municipal	227.0000	337.9407	77.3	J-400	20.0
J-106	Municipal	227.0000	293.2674	71.7	J-654	20.0
J-107	Municipal	227.0000	222.0715	74.4	J-654	20.0
J-109	East Hill Pressure Zone	227.0000	13.6321	83.3	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-115	Municipal	227.0000	194.0721	74.4	J-654	20.0
J-116	Municipal	227.0000	112.0719	66.4	J-654	20.0
J-117	Municipal	227.0000	110.2777	65.4	J-654	20.0
J-118	Municipal	227.0000	87.0956	25.3	J-654	20.0
J-119	Municipal	227.0000	79.5422	21.3	J-650	20.0
J-120	Municipal	227.0000	103.1352	20.0	J-650	20.0
J-121	Municipal	227.0000	87.8191	20.0	J-650	20.0
J-122	East Hill Pressure Zone	227.0000	77.5590	28.6	J-599	20.0
J-123	East Hill Pressure Zone	227.0000	76.6788	20.1	J-599	20.0
J-124	Municipal	227.0000	108.4474	22.6	J-650	20.0
J-125	Municipal	227.0000	69.2785	20.0	J-418	20.0
J-126	Municipal	227.0000	79.8493	20.0	J-125	20.0
J-127	Municipal	227.0000	107.6364	20.0	J-650	20.0
J-128	Municipal	227.0000	111.7079	26.1	J-654	20.0
J-129	Municipal	227.0000	123.8161	22.6	J-413	20.0
J-130	Municipal	227.0000	82.8235	22.1	J-413	20.0
J-131	Municipal	227.0000	71.4088	23.4	J-413	20.0
J-132	Municipal	227.0000	78.2906	20.0	J-405	20.0
J-133	Municipal	227.0000	89.9597	24.6	J-405	20.0
J-134	Municipal	227.0000	68.0758	29.1	J-405	20.0
J-135	Municipal	227.0000	122.4657	26.5	J-405	20.0
J-136	Municipal	227.0000	138.6075	24.7	J-626	20.0
J-137	Municipal	227.0000	81.5222	20.0	J-406	20.0
J-138	Municipal	227.0000	108.2239	20.0	J-398	20.0
J-139	Municipal	227.0000	56.4203	20.0	J-400	20.0
J-140	Municipal	227.0000	75.6497	26.0	J-400	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-141	Municipal	227.0000	54.9224	30.6	J-400	20.0
J-142	Municipal	227.0000	81.1571	26.4	J-400	20.0
J-143	Municipal	227.0000	98.0893	23.4	J-400	20.0
J-144	Municipal	227.0000	96.9963	23.7	J-400	20.0
J-145	Municipal	227.0000	246.3111	33.0	J-400	20.0
J-146	Municipal	227.0000	118.2979	20.0	J-392	20.0
J-147	Municipal	227.0000	97.3454	20.0	J-401	20.0
J-148	Municipal	227.0000	136.1024	53.3	J-147	20.0
J-149	Municipal	227.0000	305.6308	76.3	J-400	20.0
J-150	Municipal	227.0000	280.5426	42.3	J-354	20.0
J-151	Municipal	227.0000	264.3823	74.4	J-354	20.0
J-152	Municipal	227.0000	174.0197	58.0	J-354	20.0
J-153	Municipal	227.0000	140.8518	59.2	J-354	20.0
J-154	Municipal	227.0000	89.8352	71.1	J-354	20.0
J-155	Municipal	227.0000	75.4606	53.3	J-354	20.0
J-156	Municipal	227.0000	102.6698	70.2	J-354	20.0
J-157	Municipal	227.0000	161.6914	61.6	J-354	20.0
J-158	Municipal	227.0000	138.2436	41.0	J-354	20.0
J-159	Municipal	227.0000	170.2597	66.0	J-354	20.0
J-160	Municipal	227.0000	223.3827	49.7	J-354	20.0
J-161	Municipal	227.0000	225.8260	58.8	J-354	20.0
J-162	Municipal	227.0000	235.5414	69.6	J-354	20.0
J-163	Municipal	227.0000	173.7269	32.8	J-192	20.0
J-164	Municipal	227.0000	139.6023	37.2	J-192	20.0
J-165	Municipal	227.0000	146.6423	34.3	J-169	20.0
J-166	Municipal	227.0000	168.5876	31.1	J-197	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-167	Municipal	227.0000	115.7085	23.9	J-169	20.0
J-168	Municipal	227.0000	95.6020	22.5	J-169	20.0
J-169	Municipal	227.0000	91.0937	20.0	J-377	20.0
J-170	Municipal	227.0000	117.0157	20.0	J-169	20.0
J-171	Municipal	227.0000	142.9666	20.0	J-169	20.0
J-172	Municipal	227.0000	164.4292	36.5	J-197	20.0
J-173	Municipal	227.0000	235.2303	49.6	J-354	20.0
J-176	East Hill Pressure Zone	227.0000	76.7846	20.1	J-599	20.0
J-177	East Hill Pressure Zone	227.0000	77.5510	28.0	J-599	20.0
J-178	Municipal	227.0000	72.6737	70.8	J-354	20.0
J-179	Municipal	227.0000	61.5159	41.1	J-354	20.0
J-180	Municipal	227.0000	20.2107	27.8	J-354	20.0
J-181	Municipal	227.0000	204.4929	23.2	J-354	20.0
J-182	Municipal	227.0000	240.7103	62.9	J-354	20.0
J-183	Municipal	227.0000	245.0624	72.8	J-354	20.0
J-184	Municipal	227.0000	230.7672	67.8	J-354	20.0
J-185	Municipal	227.0000	199.5844	59.0	J-354	20.0
J-186	Municipal	227.0000	202.9723	40.3	J-354	20.0
J-187	Municipal	227.0000	223.4174	33.1	J-354	20.0
J-188	Municipal	227.0000	179.1233	37.7	J-192	20.0
J-189	Municipal	227.0000	135.8212	38.8	J-192	20.0
J-190	Municipal	227.0000	106.2872	28.4	J-664	20.0
J-191	Municipal	227.0000	92.7839	35.5	J-192	20.0
J-192	Municipal	227.0000	61.9047	20.0	J-358	20.0
J-193	Municipal	227.0000	128.9283	35.2	J-202	20.0
J-194	Municipal	227.0000	134.4507	20.0	J-197	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-195	Municipal	227.0000	109.6579	20.0	J-198	20.0
J-196	Municipal	227.0000	100.0100	23.6	J-197	20.0
J-197	Municipal	227.0000	90.9590	20.0	J-620	20.0
J-198	Municipal	227.0000	103.4671	20.0	J-195	20.0
J-199	Municipal	227.0000	88.6788	20.0	J-200	20.0
J-200	Municipal	227.0000	87.6756	20.0	J-201	20.0
J-201	Municipal	227.0000	63.7318	20.0	J-202	20.0
J-202	Municipal	227.0000	60.1422	20.0	J-201	20.0
J-203	Municipal	227.0000	79.2038	27.1	J-202	20.0
J-204	Municipal	227.0000	73.1095	30.9	J-202	20.0
J-205	Municipal	227.0000	70.8123	35.6	J-202	20.0
J-206	Municipal	227.0000	64.6196	20.0	J-202	20.0
J-208	Municipal	227.0000	70.4313	30.0	J-202	20.0
J-209	Municipal	227.0000	68.1639	32.1	J-202	20.0
J-210	Municipal	227.0000	66.3543	22.0	J-202	20.0
J-211	Municipal	227.0000	70.4160	34.0	J-202	20.0
J-212	Municipal	227.0000	70.4564	35.7	J-202	20.0
J-213	Municipal	227.0000	70.4557	32.5	J-202	20.0
J-214	Municipal	227.0000	69.5855	30.4	J-202	20.0
J-215	Municipal	227.0000	69.9267	20.9	J-202	20.0
J-216	Municipal	227.0000	70.2729	25.2	J-202	20.0
J-217	Municipal	227.0000	63.8869	20.0	J-654	20.0
J-219	Municipal	227.0000	66.3594	22.2	J-220	20.0
J-220	Municipal	227.0000	66.3610	20.0	J-435	20.0
J-223	Spring	227.0000	268.6812	22.9	J-235	20.0
J-224	Spring	227.0000	242.2914	25.3	J-235	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-225	Spring	227.0000	205.3513	27.0	J-235	20.0
J-226	Spring	227.0000	166.0305	29.6	J-235	20.0
J-227	Spring	227.0000	155.9651	28.0	J-235	20.0
J-228	Spring	227.0000	87.9466	20.0	J-439	20.0
J-229	Spring	227.0000	151.0453	27.0	J-235	20.0
J-230	Spring	227.0000	146.9289	28.3	J-235	20.0
J-231	Spring	227.0000	101.0303	20.0	J-235	20.0
J-232	Spring	227.0000	138.7523	27.3	J-478	20.0
J-233	Spring	227.0000	138.9833	29.5	J-235	20.0
J-234	Spring	227.0000	91.9300	27.3	J-235	20.0
J-235	Spring	227.0000	46.3377	20.0	J-478	20.0
J-236	Spring	227.0000	138.4854	30.5	J-478	20.0
J-237	Spring	227.0000	134.8875	31.6	J-478	20.0
J-238	Spring	227.0000	125.0250	29.5	J-478	20.0
J-239	Spring	227.0000	112.0570	25.1	J-478	20.0
J-240	Spring	227.0000	94.3907	20.0	J-527	20.0
J-241	Spring	227.0000	135.4309	30.2	J-478	20.0
J-242	Spring	227.0000	133.0769	20.8	J-478	20.0
J-243	Spring	227.0000	72.8321	30.9	J-478	20.0
J-244	Spring	227.0000	71.0663	29.9	J-478	20.0
J-245	Spring	227.0000	129.9449	28.6	J-282	20.0
J-246	Spring	227.0000	140.5454	28.2	J-282	20.0
J-247	Spring	227.0000	142.0443	33.3	J-478	20.0
J-248	Spring	227.0000	139.1735	34.7	J-478	20.0
J-249	Spring	227.0000	89.0425	20.0	J-478	20.0
J-250	Spring	227.0000	112.1081	21.6	J-480	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-251	Spring	227.0000	155.0421	29.1	J-478	20.0
J-252	Spring	227.0000	152.5837	31.3	J-478	20.0
J-253	Spring	227.0000	150.6535	20.0	J-438	20.0
J-254	Spring	227.0000	145.7678	20.0	J-478	20.0
J-255	Spring	227.0000	197.3419	20.0	J-478	20.0
J-256	Spring	227.0000	231.8902	26.9	J-478	20.0
J-257	Spring	227.0000	200.8957	20.0	J-591	20.0
J-258	Spring	227.0000	390.2041	33.1	J-688	20.0
J-259	Spring	227.0000	160.3653	20.0	J-688	20.0
J-260	Spring	227.0000	200.7091	25.8	J-261	20.0
J-261	Spring	227.0000	149.6265	20.0	J-601	20.0
J-262	Spring	227.0000	156.3715	21.9	J-601	20.0
J-263	Spring	227.0000	88.0522	29.0	J-282	20.0
J-264	Spring	227.0000	100.0404	30.6	J-432	20.0
J-265	Spring	227.0000	82.5860	20.1	J-282	20.0
J-267	Spring	227.0000	57.3177	20.1	J-268	20.0
J-268	Spring	227.0000	59.1613	20.0	J-282	20.0
J-269	Spring	227.0000	66.4587	23.8	J-268	20.0
J-270	Spring	227.0000	75.4099	27.9	J-282	20.0
J-271	Spring	227.0000	58.4162	26.0	J-389	20.0
J-272	Spring	227.0000	63.2566	27.5	J-282	20.0
J-273	Spring	227.0000	66.2183	28.2	J-282	20.0
J-274	Spring	227.0000	68.1296	27.0	J-282	20.0
J-275	Spring	227.0000	52.7739	27.0	J-386	20.0
J-276	Spring	227.0000	53.0687	28.8	J-282	20.0
J-277	Spring	227.0000	57.2264	28.7	J-282	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-278	Spring	227.0000	59.3287	28.4	J-282	20.0
J-279	Spring	227.0000	61.6840	24.1	J-282	20.0
J-280	Spring	227.0000	55.3470	28.4	J-282	20.0
J-281	Spring	227.0000	57.6397	28.7	J-282	20.0
J-282	Spring	227.0000	42.2953	20.0	J-283	20.0
J-283	Spring	227.0000	45.6491	23.5	J-282	20.0
J-284	Spring	227.0000	51.6049	28.8	J-282	20.0
J-285	Spring	227.0000	50.3033	23.1	J-282	20.0
J-286	Spring	227.0000	54.5367	29.0	J-282	20.0
J-287	Spring	227.0000	57.1923	28.3	J-282	20.0
J-288	Spring	227.0000	58.2756	26.4	J-282	20.0
J-289	Spring	227.0000	59.4540	20.1	J-282	20.0
J-291	Industrial	227.0000	185.1429	97.1	J-595	20.0
J-292	Industrial	227.0000	185.1294	70.8	J-595	20.0
J-293	Industrial	227.0000	183.6944	79.4	J-595	20.0
J-294	Industrial	227.0000	179.2902	65.4	J-595	20.0
J-295	Industrial	227.0000	176.8562	61.0	J-595	20.0
J-296	Industrial	227.0000	174.7840	55.1	J-595	20.0
J-297	Industrial	227.0000	179.3371	38.9	J-595	20.0
J-298	Industrial	227.0000	177.5358	57.4	J-595	20.0
J-299	Industrial	227.0000	176.7093	57.7	J-595	20.0
J-300	Industrial	227.0000	177.8942	55.3	J-595	20.0
J-301	Industrial	227.0000	176.1377	57.5	J-595	20.0
J-302	Industrial	227.0000	174.2768	52.3	J-595	20.0
J-303	Industrial	227.0000	174.6823	55.1	J-595	20.0
J-304	Industrial	227.0000	174.7762	33.1	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-305	Industrial	227.0000	173.0861	52.0	J-595	20.0
J-306	Industrial	227.0000	171.7986	44.1	J-595	20.0
J-307	Industrial	227.0000	170.9798	53.5	J-595	20.0
J-308	Industrial	227.0000	170.5810	44.5	J-595	20.0
J-309	Industrial	227.0000	170.4146	51.6	J-595	20.0
J-310	Industrial	227.0000	169.6923	54.5	J-595	20.0
J-311	Industrial	227.0000	169.6328	46.5	J-595	20.0
J-312	Industrial	227.0000	165.3876	45.3	J-595	20.0
J-313	Industrial	227.0000	164.4100	44.5	J-595	20.0
J-314	Industrial	227.0000	155.6991	51.2	J-595	20.0
J-315	Industrial	227.0000	158.3141	33.2	J-481	20.0
J-316	Industrial	227.0000	156.3885	39.5	J-481	20.0
J-317	Industrial	227.0000	145.9882	36.1	J-481	20.0
J-318	Industrial	227.0000	122.4530	27.9	J-481	20.0
J-319	Industrial	227.0000	111.0114	28.1	J-677	20.0
J-320	Industrial	227.0000	86.3368	30.1	J-677	20.0
J-321	Industrial	227.0000	93.6830	27.7	J-481	20.0
J-322	Industrial	227.0000	80.6574	29.5	J-481	20.0
J-323	Industrial	227.0000	106.5392	26.8	J-481	20.0
J-324	Industrial	227.0000	109.9446	30.6	J-481	20.0
J-325	Industrial	227.0000	138.4399	20.0	J-481	20.0
J-326	Municipal	227.0000	122.5300	64.4	J-654	20.0
J-327	Municipal	227.0000	178.2310	56.9	J-626	20.0
J-328	Municipal	227.0000	465.6636	77.8	J-654	20.0
J-329	Municipal	227.0000	391.5157	23.6	J-86	20.0
J-330	Municipal	227.0000	350.7448	23.1	J-331	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-331	Municipal	227.0000	303.5265	20.0	J-86	20.0
J-332	Municipal	227.0000	204.2675	20.1	J-496	20.0
J-333	Spring	227.0000	182.3593	20.0	J-478	20.0
J-334	Spring	227.0000	198.6993	20.0	J-437	20.0
J-335	East Hill Pressure Zone	227.0000	154.0549	28.3	J-599	20.0
J-336	East Hill Pressure Zone	227.0000	119.1449	25.5	J-599	20.0
J-337	East Hill Pressure Zone	227.0000	77.4116	21.8	J-599	20.0
J-338	East Hill Pressure Zone	227.0000	77.9348	41.6	J-599	20.0
J-339	Industrial	227.0000	106.6769	20.0	J-677	20.0
J-340	Industrial	227.0000	157.8400	34.3	J-481	20.0
J-341	Municipal	227.0000	95.3796	20.0	J-405	20.0
J-342	Municipal	227.0000	114.8774	20.0	J-138	20.0
J-343	Municipal	227.0000	138.2500	53.9	J-147	20.0
J-344	Municipal	227.0000	129.6064	44.1	J-147	20.0
J-345	Municipal	227.0000	128.1946	25.8	J-348	20.0
J-346	Municipal	227.0000	131.0087	31.5	J-147	20.0
J-347	Municipal	227.0000	92.4188	20.0	J-400	20.0
J-348	Municipal	227.0000	93.6224	20.0	J-402	20.0
J-349	Municipal	227.0000	110.7397	26.9	J-348	20.0
J-351	Municipal	227.0000	0.6650	20.7	J-654	20.0
J-353	Municipal	227.0000	19.0430	20.2	J-354	20.0
J-354	Municipal	227.0000	18.7482	20.0	J-353	20.0
J-355	Municipal	227.0000	19.7415	26.4	J-354	20.0
J-356	Municipal	227.0000	31.9792	20.0	J-654	20.0
J-357	Municipal	227.0000	44.1875	20.0	J-358	20.0
J-358	Municipal	227.0000	38.8405	20.0	J-357	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-359	Municipal	227.0000	79.2517	22.9	J-360	20.0
J-360	Municipal	227.0000	58.6358	20.0	J-361	20.0
J-361	Municipal	227.0000	48.1540	20.0	J-362	20.0
J-362	Municipal	227.0000	48.1605	22.6	J-361	20.0
J-363	Municipal	227.0000	55.0632	20.0	J-364	20.0
J-364	Municipal	227.0000	26.6516	20.0	J-654	20.0
J-366	Municipal	227.0000	70.3524	71.6	J-354	20.0
J-367	Municipal	227.0000	70.3519	23.7	J-354	20.0
J-368	Municipal	227.0000	66.8391	71.7	J-354	20.0
J-369	Municipal	227.0000	64.8802	50.6	J-354	20.0
J-370	Municipal	227.0000	64.8799	37.1	J-354	20.0
J-371	Municipal	227.0000	21.5874	30.0	J-354	20.0
J-372	Municipal	227.0000	41.2214	33.5	J-354	20.0
J-373	Municipal	227.0000	5.9998	20.0	J-654	20.0
J-374	Municipal	227.0000	41.2256	25.8	J-354	20.0
J-375	Municipal	227.0000	33.3085	20.1	J-354	20.0
J-376	Municipal	227.0000	41.2263	23.0	J-354	20.0
J-377	Municipal	227.0000	87.8376	20.0	J-378	20.0
J-378	Municipal	227.0000	62.3868	20.0	J-654	20.0
J-381	Municipal	227.0000	74.1549	28.2	J-202	20.0
J-382	Municipal	227.0000	77.6655	20.0	J-202	20.0
J-383	Municipal	227.0000	81.6965	20.0	J-654	20.0
J-384	Municipal	227.0000	127.7005	20.0	J-385	20.0
J-385	Municipal	227.0000	38.9200	20.0	J-400	20.0
J-386	Spring	227.0000	34.5081	20.1	J-478	20.0
J-387	Spring	227.0000	53.5772	26.4	J-388	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-388	Spring	227.0000	40.1303	20.1	J-282	20.0
J-389	Spring	227.0000	55.7571	20.0	J-391	20.0
J-390	Spring	227.0000	6.0132	20.1	J-478	20.0
J-391	Spring	227.0000	22.7140	20.1	J-478	20.0
J-392	Municipal	227.0000	98.9301	20.0	J-394	20.0
J-393	Municipal	227.0000	6.1204	20.0	J-654	20.0
J-394	Municipal	227.0000	47.8709	20.0	J-393	20.0
J-395	Municipal	227.0000	171.6355	20.0	J-396	20.0
J-396	Municipal	227.0000	30.1154	20.0	J-654	20.0
J-397	Municipal	227.0000	67.8332	20.0	J-139	20.0
J-398	Municipal	227.0000	78.0174	20.0	J-626	20.0
J-400	Municipal	227.0000	32.1680	20.0	J-404	20.0
J-401	Municipal	227.0000	88.3822	20.0	J-402	20.0
J-402	Municipal	227.0000	86.5873	20.0	J-401	20.0
J-403	Municipal	227.0000	48.5266	27.8	J-400	20.0
J-404	Municipal	227.0000	2.2722	20.6	J-654	20.0
J-405	Municipal	227.0000	48.2290	20.0	J-626	20.0
J-406	Municipal	227.0000	91.2384	20.0	J-408	20.0
J-407	Municipal	227.0000	32.4296	20.0	J-654	20.0
J-408	Municipal	227.0000	62.5740	20.0	J-407	20.0
J-409	Municipal	227.0000	79.0218	25.3	J-405	20.0
J-410	Municipal	227.0000	82.4577	20.7	J-626	20.0
J-411	Municipal	227.0000	28.2035	21.4	J-413	20.0
J-412	Municipal	227.0000	28.2035	22.4	J-413	20.0
J-413	Municipal	227.0000	28.1719	20.0	J-411	20.0
J-414	Municipal	227.0000	116.6566	24.6	J-654	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-415	Municipal	227.0000	113.5761	25.7	J-654	20.0
J-416	Municipal	227.0000	108.4478	20.4	J-650	20.0
J-417	Municipal	227.0000	107.3431	21.2	J-650	20.0
J-418	Municipal	227.0000	77.4361	20.0	J-125	20.0
J-419	Municipal	227.0000	102.1446	21.2	J-650	20.0
J-420	Municipal	227.0000	103.2310	21.2	J-650	20.0
J-421	Municipal	227.0000	103.4648	20.0	J-422	20.0
J-422	Municipal	227.0000	40.1755	20.0	J-654	20.0
J-423	Municipal	227.0000	111.5381	27.3	J-654	20.0
J-424	Municipal	227.0000	111.4469	34.5	J-654	20.0
J-425	Spring	227.0000	151.3482	20.0	J-478	20.0
J-426	Municipal	227.0000	101.9057	57.1	J-654	20.0
J-428	Spring	227.0000	159.3895	24.7	J-235	20.0
J-429	Spring	227.0000	70.1968	20.0	J-430	20.0
J-430	Spring	227.0000	21.7980	20.1	J-478	20.0
J-431	Spring	227.0000	23.0302	20.1	J-478	20.0
J-432	Spring	227.0000	26.8192	20.1	J-478	20.0
J-433	Municipal	227.0000	94.8205	20.0	J-434	20.0
J-434	Municipal	227.0000	35.9399	20.0	J-654	20.0
J-435	Municipal	227.0000	63.1611	20.0	J-220	20.0
J-436	Municipal	227.0000	77.0849	20.1	J-654	20.0
J-437	Spring	227.0000	55.1987	20.0	J-478	20.0
J-438	Spring	227.0000	41.5754	20.1	J-478	20.0
J-439	Spring	227.0000	48.9308	20.1	J-235	20.0
J-440	Spring	227.0000	229.8551	26.1	J-235	20.0
J-441	Spring	227.0000	22.2282	20.1	J-478	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-442	East Hill Reduced Pressure Zone	227.0000	32.7044	20.0	J-443	20.0
J-443	East Hill Reduced Pressure Zone	227.0000	31.2764	20.0	J-442	20.0
J-444	East Hill Reduced Pressure Zone	227.0000	45.9373	20.7	J-447	20.0
J-445	East Hill Reduced Pressure Zone	227.0000	41.6006	20.0	J-446	20.0
J-446	East Hill Reduced Pressure Zone	227.0000	23.8801	20.0	J-537	20.0
J-447	East Hill Reduced Pressure Zone	227.0000	36.8039	20.0	J-448	20.0
J-448	East Hill Reduced Pressure Zone	227.0000	32.5735	20.1	J-447	20.0
J-449	East Hill Reduced Pressure Zone	227.0000	74.9524	20.0	J-450	20.0
J-450	East Hill Reduced Pressure Zone	227.0000	30.1504	20.1	J-537	20.0
J-451	East Hill Reduced Pressure Zone	227.0000	61.6820	21.1	J-33	20.0
J-452	East Hill Reduced Pressure Zone	227.0000	60.6583	20.0	J-33	20.0
J-453	East Hill Reduced Pressure Zone	227.0000	87.6378	20.0	J-455	20.0
J-454	East Hill Reduced Pressure Zone	227.0000	63.8529	20.0	J-455	20.0
J-455	East Hill Reduced Pressure Zone	227.0000	48.6642	20.0	J-537	20.0
J-456	East Hill Reduced Pressure Zone	227.0000	33.9889	20.1	J-537	20.0
J-457	East Hill Reduced Pressure Zone	227.0000	76.5912	20.0	J-456	20.0
J-458	East Hill Reduced Pressure Zone	227.0000	86.9377	20.0	J-460	20.0
J-459	East Hill Reduced Pressure Zone	227.0000	58.2353	20.0	J-461	20.0
J-460	East Hill Reduced Pressure Zone	227.0000	59.7552	20.0	J-459	20.0
J-461	East Hill Reduced Pressure Zone	227.0000	56.7937	20.1	J-460	20.0
J-462	East Hill Reduced Pressure Zone	227.0000	135.2541	20.0	J-463	20.0
J-463	East Hill Reduced Pressure Zone	227.0000	58.2607	20.0	J-537	20.0
J-464	East Hill Reduced Pressure Zone	227.0000	88.9760	20.0	J-465	20.0
J-465	East Hill Reduced Pressure Zone	227.0000	24.2139	20.0	J-537	20.0
J-466	East Hill Reduced Pressure Zone	227.0000	84.6186	20.0	J-467	20.0
J-467	East Hill Reduced Pressure Zone	227.0000	26.4819	20.0	J-537	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-468	East Hill Reduced Pressure Zone	227.0000	200.5394	23.3	J-31	20.0
J-469	East Hill Reduced Pressure Zone	227.0000	105.9220	20.0	J-537	20.0
J-470	East Hill Reduced Pressure Zone	227.0000	80.9152	20.0	J-537	20.0
J-471	East Hill Reduced Pressure Zone	227.0000	109.4131	20.0	J-531	20.0
J-472	East Hill Reduced Pressure Zone	227.0000	77.5446	20.0	J-473	20.0
J-473	East Hill Reduced Pressure Zone	227.0000	64.4016	20.0	J-474	20.0
J-474	East Hill Reduced Pressure Zone	227.0000	33.0553	20.1	J-537	20.0
J-475	East Hill Reduced Pressure Zone	227.0000	69.2184	20.0	J-58	20.0
J-477	Spring	227.0000	87.7011	20.0	J-478	20.0
J-478	Spring	227.0000	65.1447	20.0	J-479	20.0
J-479	Spring	227.0000	28.6172	20.0	J-478	20.0
J-480	Spring	227.0000	63.2894	20.0	J-478	20.0
J-481	Industrial	227.0000	70.2141	20.0	J-322	20.0
J-482	Municipal	227.0000	42.6549	20.0	J-68	20.0
J-483	Municipal	227.0000	253.8891	20.0	J-654	20.0
J-484	Municipal	227.0000	425.7470	20.0	J-654	20.0
J-485	Municipal	227.0000	329.4947	20.0	J-486	20.0
J-486	Municipal	227.0000	156.5941	20.1	J-654	20.0
J-487	Municipal	227.0000	307.5995	20.0	J-654	20.0
J-490	Municipal	227.0000	149.9237	20.0	J-654	20.0
J-491	Municipal	227.0000	75.8574	20.7	J-492	20.0
J-492	Municipal	227.0000	27.1773	20.0	J-654	20.0
J-493	Municipal	227.0000	30.8236	20.0	J-654	20.0
J-495	Municipal	227.0000	154.2587	22.1	J-496	20.0
J-496	Municipal	227.0000	117.7875	20.0	J-682	20.0
J-497	Municipal	227.0000	190.4401	20.0	J-498	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-498	Municipal	227.0000	128.6651	20.0	J-654	20.0
J-499	Municipal	227.0000	191.4445	20.0	J-501	20.0
J-500	Municipal	227.0000	43.9166	20.0	J-501	20.0
J-501	Municipal	227.0000	45.2723	20.0	J-500	20.0
J-502	Municipal	227.0000	111.2126	24.1	J-505	20.0
J-503	Municipal	227.0000	114.2420	23.0	J-505	20.0
J-504	Municipal	227.0000	107.5056	26.4	J-505	20.0
J-505	Municipal	227.0000	89.6315	20.0	J-510	20.0
J-506	Municipal	227.0000	110.2930	23.0	J-510	20.0
J-507	Municipal	227.0000	110.3483	30.3	J-510	20.0
J-508	Municipal	227.0000	108.8586	21.5	J-510	20.0
J-509	Municipal	227.0000	111.1928	20.2	J-713	20.0
J-510	Municipal	227.0000	102.2867	20.0	J-713	20.0
J-511	Industrial	227.0000	178.3512	55.1	J-595	20.0
J-512	Industrial	227.0000	103.9326	20.0	J-595	20.0
J-514	Industrial	227.0000	155.6997	45.2	J-595	20.0
J-515	Municipal	227.0000	111.5060	24.8	J-654	20.0
J-516	Municipal	227.0000	108.6660	20.0	J-654	20.0
J-517	Municipal	227.0000	111.5217	25.9	J-654	20.0
J-518	Municipal	227.0000	95.6056	20.0	J-654	20.0
J-520	Municipal	227.0000	109.7447	22.7	J-650	20.0
J-521	Municipal	227.0000	84.1428	20.0	J-654	20.0
J-525	Municipal	227.0000	258.2199	20.0	J-400	20.0
J-526	Municipal	227.0000	296.5615	74.6	J-400	20.0
J-527	Spring	227.0000	91.3800	20.0	J-528	20.0
J-528	Spring	227.0000	68.3410	20.0	J-478	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-529	Municipal	227.0000	103.2339	64.4	J-354	20.0
J-530	Municipal	227.0000	46.5237	20.0	J-400	20.0
J-531	East Hill Reduced Pressure Zone	227.0000	100.5162	20.0	J-532	20.0
J-532	East Hill Reduced Pressure Zone	227.0000	92.1245	20.0	J-533	20.0
J-533	East Hill Reduced Pressure Zone	227.0000	86.6632	20.0	J-470	20.0
J-534	Municipal	227.0000	37.9988	20.0	J-654	20.0
J-535	East Hill Pressure Zone	227.0000	94.7925	20.1	J-536	20.0
J-536	East Hill Pressure Zone	227.0000	81.1040	20.1	J-28	20.0
J-537	East Hill Reduced Pressure Zone	227.0000	15.2626	20.1	J-53	20.0
J-538	East Hill Pressure Zone	227.0000	101.8382	20.0	J-28	20.0
J-539	Municipal	227.0000	257.7134	72.8	J-354	20.0
J-540	Municipal	227.0000	186.9247	20.0	J-436	20.0
J-542	Spring	227.0000	160.0778	20.0	J-662	20.0
J-543	Spring	227.0000	231.0275	26.2	J-261	20.0
J-544	Municipal	227.0000	32.0713	20.0	J-545	20.0
J-545	Municipal	227.0000	44.9906	20.0	J-546	20.0
J-546	Municipal	227.0000	36.4446	20.0	J-545	20.0
J-547	Industrial	227.0000	145.7743	35.3	J-481	20.0
J-548	Industrial	227.0000	157.2656	34.2	J-481	20.0
J-549	Industrial	227.0000	132.6514	20.0	J-550	20.0
J-550	Industrial	227.0000	93.9890	20.0	J-595	20.0
J-552	Industrial	227.0000	174.6203	42.7	J-595	20.0
J-553	Industrial	227.0000	172.2810	35.4	J-481	20.0
J-554	Municipal	227.0000	175.5604	20.0	J-654	20.0
J-555	Municipal	227.0000	25.5756	20.0	J-654	20.0
J-556	Municipal	227.0000	35.9175	25.0	J-557	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-557	Municipal	227.0000	33.2124	20.0	J-556	20.0
J-558	Industrial	227.0000	179.7954	52.4	J-595	20.0
J-559	East Hill Reduced Pressure Zone	227.0000	47.7626	20.0	J-537	20.0
J-560	Municipal	227.0000	84.9654	25.3	J-654	20.0
J-561	Municipal	227.0000	77.0019	20.0	J-654	20.0
J-562	Industrial	227.0000	164.7917	42.7	J-595	20.0
J-563	Industrial	227.0000	159.2139	32.1	J-481	20.0
J-564	Non-Supply	227.0000	0.0000	2.3	J-669	20.0
J-565	Industrial	227.0000	191.7526	111.2	J-595	20.0
J-566	Industrial	227.0000	191.7527	111.3	J-595	20.0
J-567	Industrial	227.0000	191.7270	111.4	J-595	20.0
J-568	Industrial	227.0000	191.6188	111.3	J-595	20.0
J-569	Industrial	227.0000	188.1257	111.2	J-595	20.0
J-570	Industrial	227.0000	187.8492	111.2	J-595	20.0
J-571	Industrial	227.0000	191.6189	111.3	J-595	20.0
J-572	Industrial	227.0000	187.9287	111.2	J-595	20.0
J-573	Municipal	227.0000	471.9363	65.1	J-654	20.0
J-574	Municipal	227.0000	471.9363	65.2	J-654	20.0
J-575	Municipal	227.0000	471.9367	65.7	J-654	20.0
J-576	Municipal	227.0000	471.6388	65.9	J-654	20.0
J-578	Municipal	227.0000	471.6256	61.7	J-654	20.0
J-579	Non-Supply	227.0000	0.0000	6.5	J-564	20.0
J-580	Non-Supply	227.0000	0.0000	6.5	J-564	20.0
J-581	East Hill Pressure Zone	227.0000	396.4598	36.0	J-28	20.0
J-582	East Hill Pressure Zone	227.0000	397.1039	35.7	J-28	20.0
J-583	East Hill Pressure Zone	227.0000	77.4775	29.7	J-599	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-584	East Hill Pressure Zone	227.0000	77.4874	29.6	J-599	20.0
J-585	Industrial	227.0000	151.4767	49.5	J-595	20.0
J-586	Industrial	227.0000	166.8926	51.8	J-595	20.0
J-587	Industrial	227.0000	169.6061	50.2	J-595	20.0
J-588	Industrial	227.0000	168.5846	51.4	J-595	20.0
J-589	Industrial	227.0000	168.1651	52.2	J-595	20.0
J-590	Industrial	227.0000	169.7255	40.5	J-595	20.0
J-591	Spring	227.0000	173.4243	20.0	J-478	20.0
J-592	Spring	227.0000	160.5954	20.0	J-593	20.0
J-593	Spring	227.0000	142.3907	20.0	J-478	20.0
J-594	Municipal	227.0000	452.0533	73.2	J-654	20.0
J-595	Industrial	227.0000	122.6986	20.0	J-596	20.0
J-596	Industrial	227.0000	141.2449	40.3	J-595	20.0
J-597	East Hill Pressure Zone	227.0000	77.6073	42.3	J-599	20.0
J-599	East Hill Pressure Zone	227.0000	77.2798	20.0	J-337	20.0
J-600	East Hill Pressure Zone	227.0000	77.4716	28.6	J-599	20.0
J-601	Spring	227.0000	115.6646	20.0	J-478	20.0
J-602	Municipal	227.0000	77.8268	20.0	J-654	20.0
J-603	Spring	227.0000	66.9204	25.5	J-282	20.0
J-604	Spring	227.0000	24.8978	20.1	J-478	20.0
J-605	Spring	227.0000	186.2437	27.6	J-235	20.0
J-606	Spring	227.0000	1.2747	21.3	J-478	20.0
J-607	Municipal	227.0000	138.1968	20.0	J-654	20.0
J-608	Municipal	227.0000	71.8037	20.0	J-71	20.0
J-609	Municipal	227.0000	118.1991	20.0	J-682	20.0
J-610	Industrial	227.0000	170.5815	44.3	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-611	Industrial	227.0000	170.3171	43.9	J-595	20.0
J-612	Municipal	227.0000	148.3357	20.2	J-682	20.0
J-613	Municipal	227.0000	136.8719	20.0	J-682	20.0
J-614	East Hill Reduced Pressure Zone	227.0000	26.2369	20.1	J-537	20.0
J-615	East Hill Reduced Pressure Zone	227.0000	164.7799	20.0	J-616	20.0
J-616	East Hill Reduced Pressure Zone	227.0000	76.4504	20.0	J-537	20.0
J-617	East Hill Reduced Pressure Zone	227.0000	56.7137	20.0	J-537	20.0
J-618	East Hill Reduced Pressure Zone	227.0000	65.4426	24.5	J-537	20.0
J-620	Municipal	227.0000	89.8542	20.0	J-197	20.0
J-621	Municipal	227.0000	46.6489	20.0	J-623	20.0
J-622	Municipal	227.0000	68.7241	24.3	J-621	20.0
J-623	Municipal	227.0000	46.9173	20.0	J-621	20.0
J-624	Municipal	227.0000	69.5963	24.3	J-623	20.0
J-626	Municipal	227.0000	23.7580	20.0	J-405	20.0
J-627	Municipal	227.0000	181.4674	20.0	J-354	20.0
J-628	Municipal	227.0000	140.5326	30.4	J-354	20.0
J-630	Municipal	227.0000	178.2100	21.7	J-405	20.0
J-631	Spring	227.0000	83.9167	27.7	J-432	20.0
J-632	Municipal	227.0000	182.0924	58.7	J-405	20.0
J-633	Municipal	227.0000	114.8039	67.5	J-654	20.0
J-634	Municipal	227.0000	119.7752	63.5	J-654	20.0
J-635	Municipal	227.0000	406.5368	77.0	J-654	20.0
J-639	Industrial	227.0000	154.8172	20.0	J-595	20.0
J-640	Municipal	227.0000	397.1876	72.5	J-654	20.0
J-641	Industrial	227.0000	170.2498	44.1	J-595	20.0
J-642	Industrial	227.0000	153.2711	20.0	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-643	Industrial	227.0000	170.1174	41.8	J-595	20.0
J-644	Municipal	227.0000	461.8306	76.3	J-654	20.0
J-645	Industrial	227.0000	170.0633	43.6	J-595	20.0
J-646	Industrial	227.0000	169.6739	43.3	J-595	20.0
J-647	Municipal	227.0000	22.5233	20.0	J-654	20.0
J-648	Municipal	227.0000	48.9975	20.0	J-650	20.0
J-649	Municipal	227.0000	15.9468	20.0	J-654	20.0
J-650	Municipal	227.0000	15.3056	20.0	J-654	20.0
J-651	Municipal	227.0000	50.1723	20.0	J-652	20.0
J-652	Municipal	227.0000	28.7005	20.0	J-651	20.0
J-653	Municipal	227.0000	26.2493	20.1	J-651	20.0
J-654	Municipal	227.0000	64.3440	20.0	J-217	20.0
J-658	Municipal	227.0000	72.1737	20.6	J-654	20.0
J-659	Municipal	227.0000	101.9069	69.5	J-654	20.0
J-661	Municipal	227.0000	466.2230	75.3	J-654	20.0
J-662	Spring	227.0000	144.6467	20.0	J-688	20.0
J-663	Municipal	227.0000	260.8009	20.0	J-647	20.0
J-664	Municipal	227.0000	8.2757	20.0	J-654	20.0
J-665	Municipal	227.0000	2.0505	21.3	J-654	20.0
J-666	Municipal	227.0000	2.2168	20.7	J-654	20.0
J-667	Municipal	227.0000	6.5950	20.6	J-654	20.0
J-668	Municipal	227.0000	201.5750	38.5	J-354	20.0
J-669	Non-Supply	227.0000	0.0000	3.6	J-564	20.0
J-670	Non-Supply	227.0000	0.0000	7.9	J-564	20.0
J-671	East Hill Pressure Zone	227.0000	374.2571	37.1	J-28	20.0
J-672	East Hill Pressure Zone	227.0000	396.3865	36.0	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-673	Industrial	227.0000	187.8459	100.5	J-595	20.0
J-674	Spring	227.0000	41.1485	20.1	J-478	20.0
J-675	Industrial	227.0000	76.0179	27.8	J-677	20.0
J-676	Industrial	227.0000	78.8923	29.8	J-677	20.0
J-677	Industrial	227.0000	72.1729	20.0	J-675	20.0
J-678	Industrial	227.0000	76.0179	26.7	J-677	20.0
J-679	Municipal	227.0000	111.5339	28.2	J-654	20.0
J-680	Municipal	227.0000	112.4748	26.5	J-654	20.0
J-681	Municipal	227.0000	38.8761	20.0	J-654	20.0
J-682	Municipal	227.0000	123.1017	20.0	J-609	20.0
J-683	Municipal	227.0000	100.2182	21.4	J-650	20.0
J-684	East Hill Pressure Zone	227.0000	2.9373	21.5	J-28	20.0
J-685	East Hill Pressure Zone	227.0000	77.5462	25.5	J-599	20.0
J-687	Spring	227.0000	111.5175	20.0	J-688	20.0
J-688	Spring	227.0000	131.0825	20.0	J-687	20.0
J-689	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-690	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-691	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-692	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-693	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-694	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-695	East Hill Pressure Zone	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-696	East Hill Pressure Zone	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-697	East Hill Pressure Zone	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-698	Industrial	227.0000	185.1238	77.9	J-595	20.0
J-699	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-700	Municipal	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-701	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-702	Spring	227.0000	170.2721	29.4	J-235	20.0
J-703	Spring	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-704	Spring	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-705	Spring	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-706	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-707	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-708	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-709	East Hill Pressure Zone	227.0000	3.6650	27.4	J-684	20.0
J-710	Industrial	227.0000	178.2424	64.0	J-595	20.0
J-711	Non-Supply	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-712	Non-Supply	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-713	Municipal	227.0000	106.2708	20.0	J-510	20.0
J-714	Municipal	227.0000	110.3071	24.9	J-510	20.0
J-715	Municipal	227.0000	110.5152	23.6	J-510	20.0
J-716	Municipal	227.0000	110.5647	24.0	J-510	20.0
J-717	Municipal	227.0000	82.5737	20.0	J-713	20.0
J-718	Municipal	227.0000	110.9824	31.5	J-510	20.0
J-719	Municipal	227.0000	111.9325	33.6	J-510	20.0
J-720	Municipal	227.0000	110.1760	22.8	J-713	20.0



Appendix D2
Official Plan WaterCAD Output



BURNSIDE

Official Plan – Average Day Demand (ADD)

Official Plan - Average Day Demand (ADD)

Scenario Summary

<General>	
Scenario Id	90
Scenario Label	13 - OFFICIAL PLAN - ADD
Scenario Notes	Created: 11/27/06 05:51:40 PM
Calculation Options ID	70
Calculation Options Label	13 - OFFICIAL PLAN - ADD
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives	
Active Topology	<l> 24: 2026 and Beyond
Physical	1929: 2026 and Beyond Upgrades
Demand	1911: Official Plan - ADD
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags	
Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Official Plan - Average Day Demand (ADD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	1.3567	74.7	299.5
J-3	East Hill Pressure Zone	245.7	0.9144	76.5	299.6
J-4	East Hill Pressure Zone	243.8	1.1211	79.5	299.8
J-5	East Hill Pressure Zone	242.2	1.2533	81.7	299.7
J-6	East Hill Pressure Zone	238.3	1.1062	87.0	299.6
J-7	East Hill Reduced Pressure Zone	225.4	0.9293	45.8	257.7
J-8	East Hill Pressure Zone	243.6	0.0000	79.5	299.6
J-9	East Hill Pressure Zone	238.3	0.0885	87.0	299.6
J-10	East Hill Pressure Zone	227.6	0.3389	102.1	299.5
J-11	East Hill Pressure Zone	229.9	0.3687	98.7	299.4
J-12	East Hill Pressure Zone	234.1	0.6192	92.5	299.3
J-13	East Hill Pressure Zone	235.8	0.4721	90.1	299.3
J-14	East Hill Pressure Zone	243.2	0.0000	79.6	299.3
J-15	East Hill Pressure Zone	229.0	0.0000	99.2	298.9
J-16	East Hill Pressure Zone	240.0	2.4192	83.2	298.6
J-17	East Hill Pressure Zone	243.0	0.4410	79.4	298.9
J-18	East Hill Pressure Zone	229.0	0.0000	100.4	299.7
J-19	East Hill Pressure Zone	234.8	0.2067	91.0	298.9
J-20	East Hill Reduced Pressure Zone	226.2	0.6928	45.0	257.9
J-21	East Hill Pressure Zone	247.0	0.5606	73.6	298.9
J-22	East Hill Pressure Zone	234.6	4.0264	89.9	297.9
J-23	East Hill Reduced Pressure Zone	227.7	0.7822	43.1	258.1
J-24	East Hill Pressure Zone	246.0	1.5784	73.7	297.9
J-25	East Hill Pressure Zone	258.2	0.9880	56.4	298.0
J-26	East Hill Pressure Zone	264.3	0.3986	47.8	298.0
J-27	East Hill Pressure Zone	255.1	0.0000	61.3	298.3
J-28	East Hill Pressure Zone	273.5	0.8379	34.6	297.9
J-29	East Hill Pressure Zone	234.6	0.4870	89.9	297.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	0.6490	47.5	257.5
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	43.7	257.5
J-32	East Hill Reduced Pressure Zone	216.7	1.7404	57.8	257.4
J-33	East Hill Reduced Pressure Zone	218.1	2.3009	55.7	257.4
J-34	East Hill Reduced Pressure Zone	216.3	0.5019	58.4	257.4
J-35	East Hill Reduced Pressure Zone	216.7	1.3716	58.0	257.6
J-36	East Hill Reduced Pressure Zone	217.6	0.6490	56.7	257.6
J-37	East Hill Reduced Pressure Zone	214.6	1.1798	61.0	257.6
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	61.7	257.6
J-39	East Hill Reduced Pressure Zone	214.4	1.9620	61.4	257.7
J-40	East Hill Reduced Pressure Zone	217.2	0.9293	57.5	257.7
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	58.6	257.6
J-42	East Hill Reduced Pressure Zone	217.1	0.7077	57.6	257.7
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	56.2	257.6
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	50.6	257.6
J-45	East Hill Reduced Pressure Zone	223.0	0.1620	49.2	257.7
J-46	East Hill Reduced Pressure Zone	219.2	0.1620	54.6	257.7
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	45.8	257.8
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	45.6	257.8
J-49	East Hill Reduced Pressure Zone	217.8	0.9293	56.7	257.7
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	56.7	257.8
J-51	East Hill Reduced Pressure Zone	220.0	1.2832	53.6	257.8
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	44.3	257.8
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	43.2	257.8
J-54	East Hill Reduced Pressure Zone	216.7	0.6928	58.2	257.7
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	59.3	257.7
J-56	East Hill Reduced Pressure Zone	214.8	0.3101	60.9	257.7
J-57	East Hill Reduced Pressure Zone	211.3	0.2803	65.8	257.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.2803	61.2	257.7
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	48.1	257.7
J-60	East Hill Reduced Pressure Zone	221.3	0.9293	51.7	257.7
J-61	Non-Supply	242.2	0.0000	7.7	247.6
J-64	Non-Supply	238.3	0.0000	13.4	247.7
J-65	Non-Supply	226.6	0.0000	30.7	248.2
J-66	Municipal	213.8	1.1620	50.0	249.1
J-67	Municipal	183.6	0.0000	94.0	249.8
J-68	Municipal	215.8	0.1748	47.2	249.0
J-69	Municipal	216.1	0.5000	47.4	249.5
J-70	Municipal	215.7	0.4882	48.1	249.6
J-71	Municipal	215.8	0.3428	47.9	249.5
J-72	Municipal	213.7	0.3733	50.9	249.5
J-73	Municipal	210.7	0.1748	55.2	249.6
J-74	Municipal	211.3	0.3674	54.7	249.8
J-75	Municipal	213.6	0.3550	51.3	249.7
J-76	Municipal	211.3	0.0000	54.8	249.9
J-77	Municipal	211.7	0.1267	54.3	249.9
J-78	Municipal	213.1	0.4577	52.3	249.9
J-79	Municipal	214.3	0.4695	50.2	249.7
J-80	Municipal	215.6	0.4813	48.3	249.7
J-81	Industrial	217.1	0.2959	80.5	273.8
J-82	Municipal	217.1	0.3497	46.2	249.7
J-83	Municipal	217.7	0.0000	45.5	249.7
J-84	Municipal	216.7	0.1380	46.9	249.8
J-85	Municipal	216.6	0.0000	47.4	250.0
J-86	Municipal	217.6	0.0000	46.1	250.1
J-87	Municipal	214.6	0.9449	50.4	250.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.2770	49.0	250.1
J-90	Municipal	216.3	0.3909	48.0	250.1
J-91	Municipal	215.8	0.2770	48.4	249.9
J-92	Municipal	214.2	0.3733	51.0	250.1
J-93	Municipal	214.2	0.3850	50.8	250.0
J-94	Municipal	213.3	0.2230	52.3	250.1
J-95	Municipal	180.6	0.6385	98.5	250.0
J-96	Municipal	180.6	0.0000	98.5	250.0
J-97	Municipal	188.7	0.0000	88.4	251.0
J-98	Municipal	190.2	0.0000	85.9	250.7
J-99	Municipal	187.7	0.4332	89.5	250.7
J-100	Municipal	202.4	0.4492	68.4	250.6
J-101	Municipal	204.0	0.0000	66.0	250.5
J-102	Municipal	201.4	0.2112	69.7	250.5
J-103	Municipal	205.6	0.2992	63.7	250.4
J-104	Municipal	180.2	0.0000	98.8	249.8
J-105	Municipal	179.8	0.0000	99.4	249.8
J-106	Municipal	184.1	0.0000	93.2	249.8
J-107	Municipal	182.6	0.0000	95.4	249.8
J-109	East Hill Pressure Zone	226.7	0.0000	101.1	297.9
J-115	Municipal	182.6	0.0000	95.4	249.8
J-116	Municipal	188.2	0.0000	87.4	249.8
J-117	Municipal	189.0	0.0363	86.2	249.8
J-118	Municipal	217.2	0.3497	46.2	249.8
J-119	Municipal	218.6	0.0000	44.2	249.8
J-120	Municipal	217.2	0.2407	46.2	249.8
J-121	Municipal	217.4	0.5235	45.9	249.8
J-122	East Hill Pressure Zone	238.0	0.0000	86.1	298.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	2.3009	83.2	298.6
J-124	Municipal	217.0	0.2947	46.5	249.8
J-125	Municipal	217.0	0.1925	46.5	249.8
J-126	Municipal	216.6	0.1503	47.1	249.8
J-127	Municipal	216.1	0.4391	47.8	249.8
J-128	Municipal	215.3	0.0000	48.9	249.8
J-129	Municipal	212.6	0.0304	52.7	249.8
J-130	Municipal	213.1	0.1562	52.0	249.7
J-131	Municipal	213.6	0.4037	51.3	249.7
J-132	Municipal	213.8	0.5658	51.0	249.7
J-133	Municipal	211.7	0.3369	54.0	249.7
J-134	Municipal	213.6	0.5000	51.3	249.7
J-135	Municipal	211.6	0.0658	54.2	249.8
J-136	Municipal	210.8	0.1925	55.3	249.8
J-137	Municipal	211.4	0.4577	54.4	249.7
J-138	Municipal	211.2	2.1315	54.7	249.7
J-139	Municipal	214.7	0.6267	49.7	249.7
J-140	Municipal	211.8	0.3310	53.8	249.7
J-141	Municipal	212.6	0.0000	52.7	249.7
J-142	Municipal	210.7	0.3792	55.4	249.7
J-143	Municipal	209.8	0.6561	56.7	249.7
J-144	Municipal	211.2	0.3369	54.7	249.7
J-145	Municipal	209.7	0.8487	56.9	249.8
J-146	Municipal	210.2	1.0962	56.1	249.7
J-147	Municipal	209.0	1.1925	57.8	249.7
J-148	Municipal	181.6	0.0000	96.7	249.7
J-149	Municipal	180.4	0.0000	98.5	249.8
J-150	Municipal	177.7	0.0000	102.3	249.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.1925	101.3	249.8
J-152	Municipal	178.7	0.0000	100.8	249.7
J-153	Municipal	179.6	0.0000	99.6	249.7
J-154	Municipal	178.9	0.1326	100.5	249.7
J-155	Municipal	190.6	1.3850	83.9	249.7
J-156	Municipal	179.4	0.2112	99.8	249.7
J-157	Municipal	178.6	0.2112	101.0	249.7
J-158	Municipal	186.2	0.3733	90.2	249.7
J-159	Municipal	179.6	0.2770	99.6	249.7
J-160	Municipal	187.8	1.3673	87.9	249.7
J-161	Municipal	184.1	0.0000	93.2	249.7
J-162	Municipal	178.3	0.0000	101.4	249.7
J-163	Municipal	187.1	0.0000	88.9	249.7
J-164	Municipal	189.6	1.2583	85.3	249.7
J-165	Municipal	189.8	0.1444	85.0	249.7
J-166	Municipal	189.4	0.0963	85.6	249.7
J-167	Municipal	196.8	0.1807	75.1	249.7
J-168	Municipal	199.6	0.0000	71.1	249.7
J-169	Municipal	204.1	0.0000	64.7	249.7
J-170	Municipal	202.2	0.2947	67.4	249.7
J-171	Municipal	194.7	0.1139	78.1	249.7
J-172	Municipal	190.1	0.1444	84.6	249.7
J-173	Municipal	187.7	0.0000	88.1	249.7
J-176	East Hill Pressure Zone	240.0	0.0000	83.2	298.6
J-177	East Hill Pressure Zone	239.0	2.3009	84.6	298.6
J-178	Municipal	180.6	0.0000	98.1	249.7
J-179	Municipal	202.2	0.0000	67.5	249.7
J-180	Municipal	211.5	0.0000	54.3	249.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	101.3	249.7
J-182	Municipal	178.1	0.0000	101.7	249.8
J-183	Municipal	178.1	0.0000	101.7	249.8
J-184	Municipal	178.7	0.0000	100.8	249.7
J-185	Municipal	182.1	0.0000	96.0	249.7
J-186	Municipal	187.8	0.0000	87.9	249.7
J-187	Municipal	195.4	0.0000	77.1	249.7
J-188	Municipal	187.3	0.0000	88.6	249.7
J-189	Municipal	188.2	0.0000	87.3	249.7
J-190	Municipal	190.1	0.0000	84.6	249.7
J-191	Municipal	191.7	0.0000	82.3	249.7
J-192	Municipal	202.6	0.0000	66.9	249.7
J-193	Municipal	185.3	0.3978	91.4	249.7
J-194	Municipal	200.0	0.0000	70.6	249.7
J-195	Municipal	201.6	0.6267	68.3	249.7
J-196	Municipal	202.6	0.7946	66.8	249.7
J-197	Municipal	205.1	0.0000	63.3	249.7
J-198	Municipal	200.6	0.0000	69.7	249.7
J-199	Municipal	199.2	0.2770	71.7	249.7
J-200	Municipal	201.6	0.5599	68.2	249.7
J-201	Municipal	203.9	0.0000	65.0	249.7
J-202	Municipal	204.2	0.0000	64.5	249.7
J-203	Municipal	186.6	0.0481	89.5	249.7
J-204	Municipal	186.1	0.3791	90.2	249.7
J-205	Municipal	182.1	0.2112	95.9	249.7
J-206	Municipal	178.8	0.0000	100.6	249.7
J-208	Municipal	188.1	0.1139	87.4	249.7
J-209	Municipal	188.3	0.0000	87.1	249.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	75.0	249.7
J-211	Municipal	185.2	0.0000	91.5	249.7
J-212	Municipal	183.8	0.3674	93.5	249.7
J-213	Municipal	182.7	0.0000	95.1	249.7
J-214	Municipal	185.6	0.0000	90.9	249.7
J-215	Municipal	186.8	0.1631	89.2	249.7
J-216	Municipal	186.1	0.3556	90.2	249.7
J-217	Municipal	220.4	0.0540	41.7	249.8
J-219	Municipal	218.5	0.0000	44.4	249.8
J-220	Municipal	220.5	0.0000	41.5	249.8
J-223	Spring	188.2	0.0000	58.2	229.2
J-224	Spring	187.3	0.0000	59.5	229.2
J-225	Spring	186.7	0.3428	60.4	229.2
J-226	Spring	185.9	0.5844	61.5	229.2
J-227	Spring	186.1	0.2652	61.2	229.2
J-228	Spring	186.6	0.3733	60.5	229.2
J-229	Spring	186.6	0.5776	60.5	229.2
J-230	Spring	187.4	0.2407	59.4	229.2
J-231	Spring	189.6	0.4096	56.3	229.2
J-232	Spring	186.1	0.5776	61.2	229.2
J-233	Spring	186.4	0.4391	60.8	229.2
J-234	Spring	188.7	0.3792	57.5	229.2
J-235	Spring	194.3	0.0000	49.6	229.2
J-236	Spring	184.1	0.3733	64.1	229.2
J-237	Spring	185.6	0.2999	62.0	229.2
J-238	Spring	187.2	0.3791	59.7	229.2
J-239	Spring	190.1	0.2407	55.6	229.2
J-240	Spring	182.1	0.3674	67.0	229.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	0.3850	66.3	229.3
J-242	Spring	183.6	0.3133	64.9	229.3
J-243	Spring	185.7	0.6748	61.9	229.3
J-244	Spring	187.9	0.3133	58.7	229.3
J-245	Spring	180.1	0.0000	69.9	229.3
J-246	Spring	180.2	0.3791	69.8	229.4
J-247	Spring	181.2	0.7783	68.4	229.4
J-248	Spring	182.2	0.0422	67.1	229.4
J-249	Spring	185.6	0.3497	62.1	229.4
J-250	Spring	179.9	0.0000	70.5	229.6
J-251	Spring	181.6	0.0000	68.1	229.6
J-252	Spring	183.6	1.0903	65.3	229.6
J-253	Spring	180.1	0.0845	70.6	229.8
J-254	Spring	183.9	0.4577	65.2	229.8
J-255	Spring	178.2	0.4155	74.1	230.4
J-256	Spring	184.1	0.5844	65.4	230.2
J-257	Spring	188.3	0.5599	59.3	230.1
J-258	Spring	182.8	0.2770	67.7	230.5
J-259	Spring	190.6	0.2171	56.5	230.4
J-260	Spring	183.8	0.6866	66.2	230.4
J-261	Spring	190.1	0.0000	57.3	230.4
J-262	Spring	180.6	0.0481	70.8	230.4
J-263	Spring	179.8	0.2043	70.1	229.2
J-264	Spring	182.6	0.5000	66.2	229.2
J-265	Spring	181.8	0.0000	67.2	229.1
J-267	Spring	182.6	0.2524	66.0	229.1
J-268	Spring	184.6	0.1208	63.1	229.1
J-269	Spring	181.3	1.8181	67.8	229.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.2043	69.1	229.1
J-271	Spring	180.8	0.5363	68.5	229.0
J-272	Spring	179.8	0.8192	69.9	229.1
J-273	Spring	179.6	0.0000	70.2	229.1
J-274	Spring	178.8	1.3486	71.4	229.1
J-275	Spring	180.1	0.2829	69.5	229.0
J-276	Spring	179.8	0.2947	69.9	229.0
J-277	Spring	179.1	0.2524	70.9	229.0
J-278	Spring	178.8	1.4989	71.3	229.0
J-279	Spring	177.9	0.0000	72.6	229.0
J-280	Spring	179.5	0.0000	70.3	229.0
J-281	Spring	178.8	0.0000	71.3	229.0
J-282	Spring	186.1	0.3850	60.9	229.0
J-283	Spring	182.6	1.0058	65.9	229.0
J-284	Spring	179.4	0.4096	70.4	229.0
J-285	Spring	179.2	0.2289	70.7	229.0
J-286	Spring	178.9	0.0000	71.2	229.0
J-287	Spring	178.6	0.0000	71.6	229.0
J-288	Spring	178.4	0.6807	71.9	229.0
J-289	Spring	177.9	0.0000	72.6	229.0
J-291	Industrial	189.3	0.0000	120.6	274.2
J-292	Industrial	183.5	6.4193	128.5	274.0
J-293	Industrial	201.7	5.0370	102.8	274.1
J-294	Industrial	211.4	0.0000	88.8	274.0
J-295	Industrial	214.4	7.5960	84.5	273.9
J-296	Industrial	218.6	1.5856	78.4	273.9
J-297	Industrial	214.4	2.8970	84.6	274.0
J-298	Industrial	214.2	0.6210	84.8	273.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	1.5856	83.9	273.9
J-300	Industrial	213.8	1.0109	85.4	274.0
J-301	Industrial	214.6	0.0000	84.2	273.9
J-302	Industrial	214.8	10.7531	83.8	273.8
J-303	Industrial	218.6	0.0000	78.4	273.9
J-304	Industrial	222.8	9.8343	72.4	273.8
J-305	Industrial	220.7	0.0000	75.4	273.8
J-306	Industrial	226.2	3.4020	67.6	273.8
J-307	Industrial	219.6	1.2560	77.0	273.8
J-308	Industrial	225.8	0.0000	68.1	273.8
J-309	Industrial	216.7	4.1589	81.0	273.8
J-310	Industrial	217.1	0.1380	80.5	273.8
J-311	Industrial	218.2	0.3109	78.9	273.8
J-312	Industrial	218.0	1.8529	79.2	273.8
J-313	Industrial	220.3	0.0000	75.9	273.8
J-314	Industrial	221.3	0.3250	74.5	273.8
J-315	Industrial	218.7	0.3109	78.2	273.8
J-316	Industrial	217.1	0.2499	80.5	273.8
J-317	Industrial	218.7	0.1210	78.2	273.8
J-318	Industrial	220.4	0.0000	75.8	273.8
J-319	Industrial	219.4	0.2499	77.2	273.8
J-320	Industrial	219.8	0.1819	76.6	273.8
J-321	Industrial	222.4	0.1819	73.0	273.8
J-322	Industrial	224.3	0.1819	70.3	273.8
J-323	Industrial	221.4	0.1210	74.4	273.8
J-324	Industrial	220.6	0.1210	75.5	273.8
J-325	Industrial	226.6	0.1210	67.0	273.8
J-326	Municipal	189.3	0.0000	85.8	249.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	92.5	249.8
J-328	Municipal	178.4	0.0000	102.2	250.4
J-329	Municipal	211.7	0.0000	54.9	250.3
J-330	Municipal	211.8	0.2490	54.7	250.3
J-331	Municipal	214.6	0.0000	50.7	250.3
J-332	Municipal	213.4	0.0000	52.4	250.3
J-333	Spring	178.7	0.0000	73.0	230.2
J-334	Spring	178.2	0.0000	74.2	230.4
J-335	East Hill Pressure Zone	245.9	0.0000	76.3	299.6
J-336	East Hill Pressure Zone	240.2	0.0000	84.3	299.6
J-337	East Hill Pressure Zone	250.6	0.0000	69.1	299.3
J-338	East Hill Pressure Zone	236.0	0.0000	89.8	299.3
J-339	Industrial	219.6	0.0000	76.9	273.8
J-340	Industrial	218.2	0.0000	78.9	273.8
J-341	Municipal	210.6	0.0000	55.6	249.7
J-342	Municipal	211.1	0.0000	54.9	249.7
J-343	Municipal	181.1	0.0000	97.4	249.7
J-344	Municipal	187.5	0.0000	88.3	249.7
J-345	Municipal	189.1	0.0000	86.1	249.7
J-346	Municipal	188.1	0.0000	87.5	249.7
J-347	Municipal	209.6	0.0000	57.0	249.7
J-348	Municipal	206.3	0.0000	61.6	249.7
J-349	Municipal	189.2	0.0000	85.9	249.7
J-351	Municipal	209.5	0.0000	57.1	249.7
J-353	Municipal	216.5	0.0000	47.2	249.7
J-354	Municipal	217.0	0.0000	46.5	249.7
J-355	Municipal	212.0	0.0000	53.6	249.7
J-356	Municipal	200.0	0.0000	70.6	249.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	70.6	249.7
J-358	Municipal	200.0	0.0000	70.6	249.7
J-359	Municipal	200.0	0.0000	70.6	249.7
J-360	Municipal	202.0	0.0000	67.8	249.7
J-361	Municipal	201.0	0.0000	69.2	249.7
J-362	Municipal	199.0	0.0000	72.0	249.7
J-363	Municipal	205.5	0.0000	62.8	249.7
J-364	Municipal	205.0	0.0000	63.5	249.7
J-366	Municipal	180.0	0.0000	99.0	249.7
J-367	Municipal	185.0	0.0000	91.9	249.7
J-368	Municipal	180.0	0.0000	99.0	249.7
J-369	Municipal	195.0	0.0000	77.7	249.7
J-370	Municipal	195.0	0.0000	77.7	249.7
J-371	Municipal	210.0	0.0000	56.4	249.7
J-372	Municipal	207.5	0.0000	59.9	249.7
J-373	Municipal	200.0	0.0000	70.6	249.7
J-374	Municipal	208.0	0.0000	59.2	249.7
J-375	Municipal	208.0	0.0000	59.2	249.7
J-376	Municipal	205.0	0.0000	63.5	249.7
J-377	Municipal	203.5	0.0000	65.6	249.7
J-378	Municipal	203.5	0.0000	65.6	249.7
J-381	Municipal	180.0	0.0000	98.9	249.7
J-382	Municipal	180.0	0.0000	98.9	249.7
J-383	Municipal	178.0	0.0000	101.8	249.7
J-384	Municipal	185.0	0.0000	91.9	249.7
J-385	Municipal	185.0	0.0000	91.9	249.7
J-386	Spring	185.0	0.0000	62.5	229.0
J-387	Spring	180.5	0.0000	68.9	229.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	62.5	229.0
J-389	Spring	185.0	0.0000	62.5	229.0
J-390	Spring	185.0	0.0000	62.5	229.0
J-391	Spring	185.0	0.0000	62.5	229.0
J-392	Municipal	210.0	0.0000	56.4	249.7
J-393	Municipal	206.0	0.0000	62.1	249.7
J-394	Municipal	210.0	0.0000	56.4	249.7
J-395	Municipal	209.8	0.0000	56.7	249.8
J-396	Municipal	206.0	0.0000	62.1	249.8
J-397	Municipal	213.0	0.0000	52.1	249.7
J-398	Municipal	214.0	0.0000	50.7	249.7
J-400	Municipal	220.0	0.0000	42.2	249.7
J-401	Municipal	207.5	0.0000	59.9	249.7
J-402	Municipal	207.5	0.0000	59.9	249.7
J-403	Municipal	214.5	0.0000	50.0	249.7
J-404	Municipal	216.0	0.0000	47.9	249.7
J-405	Municipal	220.0	0.0000	42.2	249.7
J-406	Municipal	210.5	0.0000	55.7	249.7
J-407	Municipal	205.0	0.0000	63.5	249.7
J-408	Municipal	210.0	0.0000	56.4	249.7
J-409	Municipal	212.5	0.0000	52.9	249.7
J-410	Municipal	212.0	0.0000	53.6	249.7
J-411	Municipal	215.0	0.0000	49.3	249.7
J-412	Municipal	214.3	0.0000	50.3	249.7
J-413	Municipal	216.0	0.0000	47.9	249.7
J-414	Municipal	214.5	0.0000	50.0	249.8
J-415	Municipal	213.1	0.0000	52.0	249.8
J-416	Municipal	218.0	0.0000	45.1	249.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	45.1	249.8
J-418	Municipal	218.0	0.0000	45.1	249.8
J-419	Municipal	218.0	0.0904	45.1	249.8
J-420	Municipal	218.0	0.0000	45.1	249.8
J-421	Municipal	216.0	0.0000	47.9	249.8
J-422	Municipal	216.0	0.0000	47.9	249.8
J-423	Municipal	215.0	0.0000	49.3	249.8
J-424	Municipal	210.0	0.0000	56.4	249.8
J-425	Spring	186.0	0.0000	61.4	229.2
J-426	Municipal	181.5	0.0000	96.9	249.8
J-428	Spring	186.0	0.0000	61.4	229.2
J-429	Spring	185.0	0.0000	62.8	229.2
J-430	Spring	185.0	0.0000	62.8	229.2
J-431	Spring	185.0	0.0000	62.8	229.2
J-432	Spring	190.0	0.0000	55.7	229.2
J-433	Municipal	208.0	0.0000	59.3	249.7
J-434	Municipal	206.0	0.0000	62.1	249.7
J-435	Municipal	219.5	0.0000	42.9	249.8
J-436	Municipal	178.0	0.0000	101.9	249.8
J-437	Spring	178.0	1.4840	74.4	230.4
J-438	Spring	178.0	1.8220	73.4	229.7
J-439	Spring	185.0	0.0000	62.8	229.2
J-440	Spring	187.0	0.0000	59.9	229.2
J-441	Spring	185.0	0.0000	62.8	229.2
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	58.0	257.4
J-443	East Hill Reduced Pressure Zone	216.0	0.0160	58.7	257.4
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	58.1	257.4
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	58.1	257.4
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	57.5	257.5
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	57.5	257.5
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	56.7	257.4
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	56.7	257.4
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	59.0	257.6
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	59.0	257.6
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	56.4	257.7
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.8
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	64.9	257.8
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	63.9	257.7
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	56.4	257.7
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	60.6	257.7
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	62.1	257.7
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	62.4	257.7
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	55.0	257.7
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	60.6	257.7
J-475	East Hill Reduced Pressure Zone	194.0	0.0149	72.9	245.3
J-477	Spring	185.0	0.0000	62.9	229.3
J-478	Spring	195.0	0.0000	48.7	229.3
J-479	Spring	192.0	0.0000	52.9	229.3
J-480	Spring	181.0	0.0000	69.0	229.6
J-481	Industrial	231.0	0.0000	60.8	273.8
J-482	Municipal	216.3	0.0000	46.5	249.0
J-483	Municipal	180.0	0.0000	99.5	250.1
J-484	Municipal	179.0	0.0000	100.9	250.1
J-485	Municipal	178.0	0.0000	102.7	250.3
J-486	Municipal	178.0	0.0000	102.7	250.3
J-487	Municipal	179.0	0.0000	101.4	250.4
J-490	Municipal	178.5	0.0000	101.5	250.0
J-491	Municipal	212.5	0.0000	53.3	250.0
J-492	Municipal	213.0	0.0000	52.6	250.0
J-493	Municipal	215.0	0.0000	49.7	250.0
J-495	Municipal	213.0	0.0000	53.0	250.3
J-496	Municipal	214.5	0.0000	50.9	250.3
J-497	Municipal	180.0	1.6820	100.2	250.6
J-498	Municipal	180.0	0.7430	100.2	250.6
J-499	Municipal	180.0	0.0000	100.2	250.6
J-500	Municipal	180.0	0.0000	100.2	250.6
J-501	Municipal	180.0	0.0000	100.2	250.6
J-502	Municipal	207.0	0.0180	61.7	250.5
J-503	Municipal	206.7	0.0440	62.1	250.5
J-504	Municipal	207.5	0.0000	61.0	250.5
J-505	Municipal	212.0	0.0000	54.6	250.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	59.7	250.4
J-507	Municipal	205.5	0.0000	63.8	250.4
J-508	Municipal	213.0	0.0000	53.1	250.4
J-509	Municipal	215.0	0.6640	50.3	250.4
J-510	Municipal	215.5	0.0000	49.6	250.4
J-511	Industrial	213.5	0.0000	85.9	274.0
J-512	Industrial	218.0	0.0000	79.2	273.8
J-514	Industrial	220.0	0.0000	76.4	273.8
J-515	Municipal	214.0	0.0000	50.8	249.8
J-516	Municipal	214.0	0.0000	50.8	249.8
J-517	Municipal	216.0	0.0000	47.9	249.8
J-518	Municipal	216.0	0.0000	47.9	249.8
J-520	Municipal	217.0	0.0000	46.5	249.8
J-521	Municipal	217.0	0.0000	46.5	249.8
J-525	Municipal	178.8	0.0000	100.8	249.8
J-526	Municipal	179.6	0.0000	99.6	249.8
J-527	Spring	182.0	0.0000	67.1	229.3
J-528	Spring	182.0	0.0000	67.1	229.3
J-529	Municipal	179.0	0.0000	100.4	249.7
J-530	Municipal	179.0	0.0000	100.4	249.7
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	63.2	257.7
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	66.3	257.7
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	64.9	257.7
J-534	Municipal	178.0	0.0000	101.8	249.7
J-535	East Hill Pressure Zone	230.0	0.0000	98.8	299.6
J-536	East Hill Pressure Zone	228.4	0.0000	101.1	299.6
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	36.6	257.7
J-538	East Hill Pressure Zone	240.0	0.0000	84.6	299.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	100.4	249.8
J-540	Municipal	178.0	0.0000	101.9	249.8
J-542	Spring	190.5	0.0000	56.7	230.4
J-543	Spring	184.0	0.0000	66.0	230.5
J-544	Municipal	217.0	0.0000	46.1	249.5
J-545	Municipal	217.5	0.0000	45.4	249.5
J-546	Municipal	217.5	0.0000	45.4	249.5
J-547	Industrial	219.0	0.0000	77.8	273.8
J-548	Industrial	219.0	0.1850	77.8	273.8
J-549	Industrial	219.5	0.0000	77.1	273.8
J-550	Industrial	217.0	0.4779	80.6	273.8
J-552	Industrial	217.5	0.0000	80.0	273.9
J-553	Industrial	218.0	0.0000	79.3	273.9
J-554	Municipal	212.0	0.0000	54.4	250.3
J-555	Municipal	178.0	1.0589	103.1	250.6
J-556	Municipal	179.5	0.0000	101.0	250.7
J-557	Municipal	183.0	0.0000	96.1	250.7
J-558	Industrial	215.0	0.0000	83.8	274.1
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	53.3	257.6
J-560	Municipal	217.2	0.0000	46.2	249.8
J-561	Municipal	185.0	0.0000	91.9	249.8
J-562	Industrial	220.3	0.0000	75.9	273.8
J-563	Industrial	218.7	0.3020	78.2	273.8
J-564	Non-Supply	246.0	0.0000	2.3	247.6
J-565	Industrial	179.5	0.0000	159.9	292.1
J-566	Industrial	179.5	0.0000	159.9	292.1
J-567	Industrial	179.5	0.0000	159.9	292.1
J-568	Industrial	179.5	0.0000	159.9	292.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	134.8	274.5
J-570	Industrial	179.5	0.0000	134.8	274.5
J-571	Industrial	179.5	0.0000	159.9	292.1
J-572	Industrial	179.5	0.0000	134.8	274.5
J-573	Municipal	185.5	0.0000	93.0	251.1
J-574	Municipal	185.5	0.0000	93.0	251.1
J-575	Municipal	185.5	0.0000	93.0	251.1
J-576	Municipal	185.5	0.0000	93.0	251.0
J-578	Municipal	188.5	0.0000	88.7	251.0
J-579	Non-Supply	243.0	0.0000	6.6	247.6
J-580	Non-Supply	243.0	0.0000	6.6	247.6
J-581	East Hill Pressure Zone	243.0	0.0000	80.5	299.7
J-582	East Hill Pressure Zone	243.0	0.0000	80.5	299.7
J-583	East Hill Pressure Zone	243.5	0.0000	79.0	299.2
J-584	East Hill Pressure Zone	243.3	0.7940	79.3	299.1
J-585	Industrial	222.5	0.0000	72.8	273.8
J-586	Industrial	220.6	0.0000	75.5	273.8
J-587	Industrial	221.0	0.0000	75.0	273.8
J-588	Industrial	220.1	0.0000	76.2	273.8
J-589	Industrial	220.4	0.0000	75.8	273.8
J-590	Industrial	224.6	0.0000	69.9	273.8
J-591	Spring	188.3	0.0000	59.2	230.0
J-592	Spring	188.3	0.0000	59.0	229.9
J-593	Spring	188.3	0.0000	59.0	229.9
J-594	Municipal	182.8	0.0000	95.1	249.8
J-595	Industrial	243.3	0.0000	43.4	273.8
J-596	Industrial	229.0	1.7000	63.6	273.8
J-597	East Hill Pressure Zone	229.0	0.0000	99.2	298.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	2.4680	67.2	299.3
J-600	East Hill Pressure Zone	244.5	0.0000	77.6	299.2
J-601	Spring	188.7	0.0000	59.3	230.4
J-602	Municipal	181.5	0.0000	96.9	249.8
J-603	Spring	179.2	0.0000	70.8	229.1
J-604	Spring	179.2	0.0000	70.8	229.1
J-605	Spring	186.7	0.0000	60.4	229.2
J-606	Spring	186.7	0.0000	60.4	229.2
J-607	Municipal	212.1	0.0260	54.3	250.3
J-608	Municipal	215.1	0.0000	49.0	249.6
J-609	Municipal	214.4	0.0590	51.1	250.4
J-610	Industrial	225.8	0.0000	68.1	273.8
J-611	Industrial	225.8	0.0000	68.1	273.8
J-612	Municipal	213.0	0.0000	53.0	250.3
J-613	Municipal	213.0	0.1990	53.0	250.3
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	45.5	258.1
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	44.0	258.0
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	45.4	258.0
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	46.4	257.7
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	53.5	257.7
J-620	Municipal	205.1	0.0000	63.3	249.7
J-621	Municipal	219.5	0.0000	42.9	249.8
J-622	Municipal	216.5	0.0000	47.2	249.8
J-623	Municipal	219.5	0.0000	42.9	249.8
J-624	Municipal	216.5	0.0000	47.2	249.8
J-626	Municipal	220.0	0.0000	42.2	249.7
J-627	Municipal	178.4	0.0000	101.3	249.7
J-628	Municipal	186.2	0.0000	90.2	249.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	95.4	249.8
J-631	Spring	184.6	0.0000	63.3	229.2
J-632	Municipal	183.6	0.0000	93.9	249.8
J-633	Municipal	187.3	0.0000	88.7	249.8
J-634	Municipal	190.0	0.0000	84.8	249.8
J-635	Municipal	180.1	0.0000	98.9	249.8
J-639	Industrial	229.0	0.7270	63.6	273.8
J-640	Municipal	182.1	0.0260	96.1	249.8
J-641	Industrial	224.6	0.0000	69.9	273.8
J-642	Industrial	224.6	0.0000	69.9	273.8
J-643	Industrial	224.6	0.0000	69.9	273.8
J-644	Municipal	180.0	0.0000	99.5	250.1
J-645	Industrial	224.6	0.0000	69.9	273.8
J-646	Industrial	224.6	0.0000	69.9	273.8
J-647	Municipal	213.0	0.0000	51.2	249.1
J-648	Municipal	219.5	0.0246	42.9	249.8
J-649	Municipal	218.0	0.0246	45.1	249.8
J-650	Municipal	219.5	0.0422	42.9	249.8
J-651	Municipal	219.5	0.0246	42.9	249.8
J-652	Municipal	218.0	0.0422	45.1	249.8
J-653	Municipal	218.0	0.0246	45.1	249.8
J-654	Municipal	220.9	0.0304	41.0	249.8
J-658	Municipal	220.5	0.0000	41.5	249.8
J-659	Municipal	186.0	0.0000	90.5	249.8
J-661	Municipal	178.4	0.0000	102.2	250.4
J-662	Spring	190.0	0.0000	57.4	230.4
J-663	Municipal	213.8	0.0000	50.0	249.1
J-664	Municipal	196.0	0.0000	76.2	249.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	85.6	249.7
J-666	Municipal	187.0	0.0000	89.0	249.7
J-667	Municipal	187.2	0.0000	88.8	249.7
J-668	Municipal	178.5	0.0000	101.1	249.7
J-669	Non-Supply	245.0	0.0000	3.7	247.6
J-670	Non-Supply	242.0	0.0000	8.0	247.6
J-671	East Hill Pressure Zone	243.8	0.0000	79.4	299.7
J-672	East Hill Pressure Zone	243.0	0.0000	80.5	299.7
J-673	Industrial	187.0	0.0000	124.1	274.5
J-674	Spring	186.3	0.0000	60.9	229.2
J-675	Industrial	221.5	0.1590	74.3	273.8
J-676	Industrial	220.0	0.0000	76.4	273.8
J-677	Industrial	226.9	1.1260	66.6	273.8
J-678	Industrial	221.4	0.0000	74.4	273.8
J-679	Municipal	214.4	0.0000	50.2	249.8
J-680	Municipal	214.3	0.0000	50.3	249.8
J-681	Municipal	213.1	0.0540	52.0	249.8
J-682	Municipal	214.9	0.0000	50.3	250.4
J-683	Municipal	218.0	0.0000	45.1	249.8
J-684	East Hill Pressure Zone	234.5	4.7390	90.6	298.3
J-685	East Hill Pressure Zone	242.0	0.0000	80.3	298.6
J-687	Spring	188.6	0.0000	59.4	230.4
J-688	Spring	192.0	0.0000	54.5	230.4
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	0.0000	126.1	273.9
J-692	Industrial	214.0	32.9540	84.8	273.8
J-693	Industrial	222.0	0.0000	73.5	273.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	5.5410	52.2	273.8
J-695	East Hill Pressure Zone	237.0	4.8300	86.8	298.2
J-696	East Hill Pressure Zone	242.0	7.9420	79.8	298.2
J-697	East Hill Pressure Zone	242.0	0.0000	79.9	298.3
J-698	Industrial	189.0	3.1270	120.7	274.0
J-699	Industrial	200.0	0.0000	104.9	273.9
J-700	Municipal	200.0	0.0000	104.9	273.9
J-701	Industrial	201.7	0.0000	102.8	274.1
J-702	Spring	185.9	0.0000	61.5	229.2
J-703	Spring	185.9	0.0000	61.5	229.2
J-704	Spring	189.6	0.0000	56.3	229.2
J-705	Spring	189.6	0.0000	56.3	229.2
J-706	Industrial	234.0	0.0000	56.5	273.8
J-707	Industrial	238.0	0.0000	50.8	273.8
J-708	Industrial	236.0	1.4540	53.7	273.8
J-709	East Hill Pressure Zone	230.0	0.0000	97.1	298.4
J-710	Industrial	210.0	0.3300	90.8	274.0
J-711	<None>	230.0	(N/A)	(N/A)	(N/A)
J-712	<None>	251.0	(N/A)	(N/A)	(N/A)
J-713	Municipal	216.0	0.3750	48.9	250.4
J-714	Municipal	209.0	0.1680	58.8	250.4
J-715	Municipal	209.5	0.0000	58.1	250.4
J-716	Municipal	208.5	0.1680	59.5	250.4
J-717	Municipal	208.0	0.1680	60.2	250.4
J-718	Municipal	204.0	0.1680	65.9	250.4
J-719	Municipal	202.0	0.1680	68.8	250.4
J-720	Municipal	209.5	0.3750	58.1	250.4



BURNSIDE

Official Plan – Maximum Day Demand (MDD)

Official Plan - Maximum Day Demand (MDD)

Scenario Summary

<General>	
Scenario Id	91
Scenario Label	14 - OFFICIAL PLAN - MDD (1.8*ADD)
Scenario Notes	Created: 11/28/06 08:48:16 PM
Calculation Options ID	71
Calculation Options Label	14 - OFFICIAL PLAN - MDD
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives	
Active Topology	1930: 2026 and Beyond - with future pumps
Physical	1929: 2026 and Beyond Upgrades
Demand	1916: Official Plan - MDD (1.8*ADD)
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags	
Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Official Plan - Maximum Day Demand (MDD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	2.4421	73.9	299.0
J-3	East Hill Pressure Zone	245.7	1.6459	75.9	299.2
J-4	East Hill Pressure Zone	243.8	2.0180	79.5	299.8
J-5	East Hill Pressure Zone	242.2	2.2560	81.4	299.6
J-6	East Hill Pressure Zone	238.3	1.9912	86.5	299.3
J-7	East Hill Reduced Pressure Zone	225.4	1.6728	44.9	257.0
J-8	East Hill Pressure Zone	243.6	0.0000	79.0	299.3
J-9	East Hill Pressure Zone	238.3	0.1592	86.5	299.2
J-10	East Hill Pressure Zone	227.6	0.6101	101.4	299.1
J-11	East Hill Pressure Zone	229.9	0.6637	97.8	298.8
J-12	East Hill Pressure Zone	234.1	1.1146	91.2	298.4
J-13	East Hill Pressure Zone	235.8	0.8498	88.8	298.3
J-14	East Hill Pressure Zone	243.2	0.0000	78.3	298.3
J-15	East Hill Pressure Zone	229.0	0.0000	96.9	297.2
J-16	East Hill Pressure Zone	240.0	4.3546	80.2	296.5
J-17	East Hill Pressure Zone	243.0	0.7938	77.2	297.4
J-18	East Hill Pressure Zone	229.0	0.0000	100.2	299.6
J-19	East Hill Pressure Zone	234.8	0.3721	88.1	296.9
J-20	East Hill Reduced Pressure Zone	226.2	1.2470	44.7	257.7
J-21	East Hill Pressure Zone	247.0	1.0090	70.7	296.8
J-22	East Hill Pressure Zone	234.6	7.2475	85.9	295.1
J-23	East Hill Reduced Pressure Zone	227.7	1.4080	42.8	257.8
J-24	East Hill Pressure Zone	246.0	2.8411	69.7	295.1
J-25	East Hill Pressure Zone	258.2	1.7783	52.4	295.1
J-26	East Hill Pressure Zone	264.3	0.7174	43.8	295.1
J-27	East Hill Pressure Zone	255.1	0.0000	57.5	295.6
J-28	East Hill Pressure Zone	273.5	1.5082	30.4	294.9
J-29	East Hill Pressure Zone	234.6	0.8766	85.9	295.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	1.1683	46.0	256.5
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	42.2	256.4
J-32	East Hill Reduced Pressure Zone	216.7	3.1326	55.9	256.1
J-33	East Hill Reduced Pressure Zone	218.1	4.1417	53.8	256.0
J-34	East Hill Reduced Pressure Zone	216.3	0.9035	56.7	256.2
J-35	East Hill Reduced Pressure Zone	216.7	2.4689	56.6	256.6
J-36	East Hill Reduced Pressure Zone	217.6	1.1682	55.3	256.6
J-37	East Hill Reduced Pressure Zone	214.6	2.1236	59.6	256.6
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	60.4	256.7
J-39	East Hill Reduced Pressure Zone	214.4	3.5316	60.4	257.0
J-40	East Hill Reduced Pressure Zone	217.2	1.6728	56.6	257.1
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	57.3	256.7
J-42	East Hill Reduced Pressure Zone	217.1	1.2738	56.6	256.9
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	55.0	256.7
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	49.4	256.8
J-45	East Hill Reduced Pressure Zone	223.0	0.2916	48.2	256.9
J-46	East Hill Reduced Pressure Zone	219.2	0.2916	53.6	257.0
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	44.8	257.1
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	44.9	257.3
J-49	East Hill Reduced Pressure Zone	217.8	1.6728	55.9	257.2
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	55.9	257.2
J-51	East Hill Reduced Pressure Zone	220.0	2.3097	52.8	257.2
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	43.8	257.4
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	42.5	257.2
J-54	East Hill Reduced Pressure Zone	216.7	1.2470	57.2	257.0
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	58.4	257.0
J-56	East Hill Reduced Pressure Zone	214.8	0.5582	59.9	257.0
J-57	East Hill Reduced Pressure Zone	211.3	0.5045	64.9	257.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.5045	60.2	257.0
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	47.2	257.0
J-60	East Hill Reduced Pressure Zone	221.3	1.6728	50.7	257.0
J-61	Non-Supply	242.2	0.0000	7.6	247.5
J-64	Non-Supply	238.3	0.0000	13.2	247.6
J-65	Non-Supply	226.6	0.0000	30.0	247.8
J-66	Municipal	213.8	2.0916	48.6	248.0
J-67	Municipal	183.6	0.0000	91.8	248.3
J-68	Municipal	215.8	0.3147	45.7	248.0
J-69	Municipal	216.1	0.8999	45.5	248.2
J-70	Municipal	215.7	0.8787	46.2	248.2
J-71	Municipal	215.8	0.6171	46.0	248.2
J-72	Municipal	213.7	0.6719	49.0	248.2
J-73	Municipal	210.7	0.3147	53.3	248.3
J-74	Municipal	211.3	0.6612	52.6	248.4
J-75	Municipal	213.6	0.6390	49.3	248.3
J-76	Municipal	211.3	0.0000	52.7	248.4
J-77	Municipal	211.7	0.2281	52.1	248.4
J-78	Municipal	213.1	0.8239	50.2	248.4
J-79	Municipal	214.3	0.8451	48.2	248.3
J-80	Municipal	215.6	0.8663	46.4	248.3
J-81	Industrial	217.1	0.5327	78.2	272.2
J-82	Municipal	217.1	0.6294	44.2	248.3
J-83	Municipal	217.7	0.0000	43.4	248.3
J-84	Municipal	216.7	0.2484	44.9	248.3
J-85	Municipal	216.6	0.0000	45.3	248.5
J-86	Municipal	217.6	0.0000	43.9	248.5
J-87	Municipal	214.6	1.7008	48.2	248.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.4986	46.8	248.6
J-90	Municipal	216.3	0.7036	45.8	248.6
J-91	Municipal	215.8	0.4986	46.3	248.4
J-92	Municipal	214.2	0.6719	48.8	248.6
J-93	Municipal	214.2	0.6931	48.7	248.5
J-94	Municipal	213.3	0.4013	50.1	248.6
J-95	Municipal	180.6	1.1492	96.4	248.5
J-96	Municipal	180.6	0.0000	96.4	248.5
J-97	Municipal	188.7	0.0000	86.3	249.5
J-98	Municipal	190.2	0.0000	83.7	249.2
J-99	Municipal	187.7	0.7797	87.2	249.1
J-100	Municipal	202.4	0.8086	66.1	249.0
J-101	Municipal	204.0	0.0000	63.8	248.9
J-102	Municipal	201.4	0.3802	67.4	248.9
J-103	Municipal	205.6	0.5386	61.4	248.9
J-104	Municipal	180.2	0.0000	96.6	248.2
J-105	Municipal	179.8	0.0000	97.1	248.2
J-106	Municipal	184.1	0.0000	91.0	248.2
J-107	Municipal	182.6	0.0000	93.1	248.2
J-109	East Hill Pressure Zone	226.7	0.0000	97.1	295.1
J-115	Municipal	182.6	0.0000	93.0	248.1
J-116	Municipal	188.2	0.0000	85.0	248.1
J-117	Municipal	189.0	0.0654	83.9	248.1
J-118	Municipal	217.2	0.6294	43.8	248.1
J-119	Municipal	218.6	0.0000	41.8	248.1
J-120	Municipal	217.2	0.4333	43.8	248.1
J-121	Municipal	217.4	0.9423	43.5	248.1
J-122	East Hill Pressure Zone	238.0	0.0000	83.2	296.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	4.1417	80.2	296.5
J-124	Municipal	217.0	0.5305	44.1	248.1
J-125	Municipal	217.0	0.3465	44.1	248.1
J-126	Municipal	216.6	0.2705	44.7	248.1
J-127	Municipal	216.1	0.7904	45.4	248.1
J-128	Municipal	215.3	0.0000	46.5	248.1
J-129	Municipal	212.6	0.0548	50.3	248.1
J-130	Municipal	213.1	0.2811	49.6	248.0
J-131	Municipal	213.6	0.7267	48.9	248.0
J-132	Municipal	213.8	1.0184	48.6	248.0
J-133	Municipal	211.7	0.6064	51.6	248.0
J-134	Municipal	213.6	0.8999	48.8	248.0
J-135	Municipal	211.6	0.1184	51.7	248.1
J-136	Municipal	210.8	0.3465	52.9	248.1
J-137	Municipal	211.4	0.8239	52.0	248.0
J-138	Municipal	211.2	3.8367	52.2	248.0
J-139	Municipal	214.7	1.1280	47.2	248.0
J-140	Municipal	211.8	0.5958	51.4	248.0
J-141	Municipal	212.6	0.0000	50.2	248.0
J-142	Municipal	210.7	0.6826	52.9	248.0
J-143	Municipal	209.8	1.1810	54.2	248.0
J-144	Municipal	211.2	0.6064	52.2	248.0
J-145	Municipal	209.7	1.5276	54.6	248.1
J-146	Municipal	210.2	1.9732	53.7	248.0
J-147	Municipal	209.0	2.1465	55.3	248.0
J-148	Municipal	181.6	0.0000	94.3	248.0
J-149	Municipal	180.4	0.0000	96.2	248.2
J-150	Municipal	177.7	0.0000	99.9	248.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.3465	98.9	248.1
J-152	Municipal	178.7	0.0000	98.4	248.0
J-153	Municipal	179.6	0.0000	97.1	248.0
J-154	Municipal	178.9	0.2387	98.1	248.0
J-155	Municipal	190.6	2.4930	81.5	248.0
J-156	Municipal	179.4	0.3802	97.4	248.0
J-157	Municipal	178.6	0.3802	98.6	248.0
J-158	Municipal	186.2	0.6719	87.8	248.0
J-159	Municipal	179.6	0.4986	97.1	248.0
J-160	Municipal	187.8	2.4611	85.5	248.0
J-161	Municipal	184.1	0.0000	90.8	248.0
J-162	Municipal	178.3	0.0000	99.0	248.0
J-163	Municipal	187.1	0.0000	86.4	248.0
J-164	Municipal	189.6	2.2649	82.8	247.9
J-165	Municipal	189.8	0.2599	82.5	247.9
J-166	Municipal	189.4	0.1733	83.1	247.9
J-167	Municipal	196.8	0.3253	72.6	247.9
J-168	Municipal	199.6	0.0000	68.6	247.9
J-169	Municipal	204.1	0.0000	62.2	247.9
J-170	Municipal	202.2	0.5305	64.9	247.9
J-171	Municipal	194.7	0.2050	75.6	247.9
J-172	Municipal	190.1	0.2599	82.1	247.9
J-173	Municipal	187.7	0.0000	85.7	248.0
J-176	East Hill Pressure Zone	240.0	0.0000	80.2	296.5
J-177	East Hill Pressure Zone	239.0	4.1416	81.5	296.4
J-178	Municipal	180.6	0.0000	95.7	248.0
J-179	Municipal	202.2	0.0000	65.0	248.0
J-180	Municipal	211.5	0.0000	51.8	248.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	98.9	248.0
J-182	Municipal	178.1	0.0000	99.3	248.1
J-183	Municipal	178.1	0.0000	99.3	248.1
J-184	Municipal	178.7	0.0000	98.4	248.0
J-185	Municipal	182.1	0.0000	93.6	248.0
J-186	Municipal	187.8	0.0000	85.5	248.0
J-187	Municipal	195.4	0.0000	74.7	248.0
J-188	Municipal	187.3	0.0000	86.2	248.0
J-189	Municipal	188.2	0.0000	84.8	247.9
J-190	Municipal	190.1	0.0000	82.1	247.9
J-191	Municipal	191.7	0.0000	79.8	247.9
J-192	Municipal	202.6	0.0000	64.4	247.9
J-193	Municipal	185.3	0.7161	88.9	247.9
J-194	Municipal	200.0	0.0000	68.0	247.9
J-195	Municipal	201.6	1.1280	65.7	247.9
J-196	Municipal	202.6	1.4304	64.3	247.9
J-197	Municipal	205.1	0.0000	60.7	247.9
J-198	Municipal	200.6	0.0000	67.1	247.9
J-199	Municipal	199.2	0.4986	69.1	247.9
J-200	Municipal	201.6	1.0078	65.6	247.8
J-201	Municipal	203.9	0.0000	62.4	247.8
J-202	Municipal	204.2	0.0000	61.9	247.8
J-203	Municipal	186.6	0.0866	86.9	247.8
J-204	Municipal	186.1	0.6825	87.6	247.8
J-205	Municipal	182.1	0.3801	93.3	247.8
J-206	Municipal	178.8	0.0000	98.0	247.8
J-208	Municipal	188.1	0.2050	84.8	247.8
J-209	Municipal	188.3	0.0000	84.5	247.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	72.4	247.8
J-211	Municipal	185.2	0.0000	88.9	247.8
J-212	Municipal	183.8	0.6612	90.9	247.8
J-213	Municipal	182.7	0.0000	92.4	247.8
J-214	Municipal	185.6	0.0000	88.3	247.8
J-215	Municipal	186.8	0.2935	86.6	247.8
J-216	Municipal	186.1	0.6400	87.6	247.8
J-217	Municipal	220.4	0.0972	39.3	248.1
J-219	Municipal	218.5	0.0000	42.0	248.1
J-220	Municipal	220.5	0.0000	39.1	248.1
J-223	Spring	188.2	0.0000	54.1	226.3
J-224	Spring	187.3	0.0000	55.4	226.3
J-225	Spring	186.7	0.6171	56.3	226.3
J-226	Spring	185.9	1.0520	57.4	226.3
J-227	Spring	186.1	0.4774	57.1	226.3
J-228	Spring	186.6	0.6719	56.4	226.3
J-229	Spring	186.6	1.0396	56.4	226.3
J-230	Spring	187.4	0.4332	55.3	226.3
J-231	Spring	189.6	0.7373	52.1	226.3
J-232	Spring	186.1	1.0396	57.1	226.3
J-233	Spring	186.4	0.7903	56.7	226.3
J-234	Spring	188.7	0.6826	53.4	226.4
J-235	Spring	194.3	0.0000	45.5	226.4
J-236	Spring	184.1	0.6719	60.0	226.3
J-237	Spring	185.6	0.5398	57.9	226.4
J-238	Spring	187.2	0.6825	55.6	226.4
J-239	Spring	190.1	0.4332	51.5	226.4
J-240	Spring	182.1	0.6612	63.0	226.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	0.6930	62.3	226.5
J-242	Spring	183.6	0.5640	60.9	226.5
J-243	Spring	185.7	1.2147	57.9	226.5
J-244	Spring	187.9	0.5640	54.7	226.4
J-245	Spring	180.1	0.0000	66.0	226.6
J-246	Spring	180.2	0.6825	66.0	226.7
J-247	Spring	181.2	1.4009	64.8	226.8
J-248	Spring	182.2	0.0760	63.5	226.9
J-249	Spring	185.6	0.6294	58.4	226.7
J-250	Spring	179.9	0.0000	67.5	227.4
J-251	Spring	181.6	0.0000	65.0	227.4
J-252	Spring	183.6	1.9625	62.2	227.4
J-253	Spring	180.1	0.1520	68.1	228.1
J-254	Spring	183.9	0.8239	62.7	228.1
J-255	Spring	178.2	0.7479	73.3	229.8
J-256	Spring	184.1	1.0520	63.8	229.1
J-257	Spring	188.3	1.0078	57.7	228.9
J-258	Spring	182.8	0.4986	67.1	230.1
J-259	Spring	190.6	0.3907	55.7	229.8
J-260	Spring	183.8	1.2359	65.5	229.9
J-261	Spring	190.1	0.0000	56.6	229.9
J-262	Spring	180.6	0.0866	70.0	229.9
J-263	Spring	179.8	0.3678	65.9	226.2
J-264	Spring	182.6	0.8999	62.0	226.3
J-265	Spring	181.8	0.0000	62.7	226.0
J-267	Spring	182.6	0.4544	61.4	225.9
J-268	Spring	184.6	0.2175	58.5	225.8
J-269	Spring	181.3	3.2727	63.2	225.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.3678	64.7	226.0
J-271	Spring	180.8	0.9654	63.9	225.8
J-272	Spring	179.8	1.4746	65.3	225.8
J-273	Spring	179.6	0.0000	65.6	225.8
J-274	Spring	178.8	2.4275	66.8	225.8
J-275	Spring	180.1	0.5092	64.8	225.7
J-276	Spring	179.8	0.5304	65.2	225.7
J-277	Spring	179.1	0.4544	66.2	225.7
J-278	Spring	178.8	2.6981	66.6	225.7
J-279	Spring	177.9	0.0000	67.9	225.8
J-280	Spring	179.5	0.0000	65.6	225.7
J-281	Spring	178.8	0.0000	66.6	225.7
J-282	Spring	186.1	0.6931	56.2	225.7
J-283	Spring	182.6	1.8105	61.2	225.7
J-284	Spring	179.4	0.7373	65.8	225.7
J-285	Spring	179.2	0.4120	66.0	225.7
J-286	Spring	178.9	0.0000	66.5	225.7
J-287	Spring	178.6	0.0000	66.9	225.7
J-288	Spring	178.4	1.2253	67.2	225.7
J-289	Spring	177.9	0.0000	67.9	225.8
J-291	Industrial	189.3	0.0000	119.4	273.5
J-292	Industrial	183.5	11.5547	126.7	272.8
J-293	Industrial	201.7	9.0666	101.5	273.2
J-294	Industrial	211.4	0.0000	87.0	272.7
J-295	Industrial	214.4	13.6728	82.5	272.5
J-296	Industrial	218.6	2.8540	76.3	272.3
J-297	Industrial	214.4	5.2146	82.8	272.7
J-298	Industrial	214.2	1.1178	82.8	272.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	2.8540	81.9	272.5
J-300	Industrial	213.8	1.8196	83.5	272.6
J-301	Industrial	214.6	0.0000	82.1	272.5
J-302	Industrial	214.8	19.3556	81.5	272.2
J-303	Industrial	218.6	0.0000	76.3	272.3
J-304	Industrial	222.8	17.7018	70.0	272.1
J-305	Industrial	220.7	0.0000	73.2	272.3
J-306	Industrial	226.2	6.1236	65.3	272.2
J-307	Industrial	219.6	2.2608	74.7	272.2
J-308	Industrial	225.8	0.0000	65.9	272.2
J-309	Industrial	216.7	7.4860	78.7	272.2
J-310	Industrial	217.1	0.2484	78.2	272.2
J-311	Industrial	218.2	0.5596	76.6	272.2
J-312	Industrial	218.0	3.3352	76.9	272.2
J-313	Industrial	220.3	0.0000	73.6	272.2
J-314	Industrial	221.3	0.5850	72.2	272.2
J-315	Industrial	218.7	0.5596	75.9	272.2
J-316	Industrial	217.1	0.4499	78.2	272.2
J-317	Industrial	218.7	0.2177	76.0	272.2
J-318	Industrial	220.4	0.0000	73.5	272.2
J-319	Industrial	219.4	0.4499	74.9	272.2
J-320	Industrial	219.8	0.3275	74.3	272.2
J-321	Industrial	222.4	0.3275	70.7	272.2
J-322	Industrial	224.3	0.3275	68.0	272.2
J-323	Industrial	221.4	0.2177	72.1	272.2
J-324	Industrial	220.6	0.2177	73.2	272.2
J-325	Industrial	226.6	0.2177	64.7	272.2
J-326	Municipal	189.3	0.0000	83.5	248.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	90.2	248.1
J-328	Municipal	178.4	0.0000	100.0	248.9
J-329	Municipal	211.7	0.0000	52.7	248.8
J-330	Municipal	211.8	0.4482	52.5	248.8
J-331	Municipal	214.6	0.0000	48.5	248.8
J-332	Municipal	213.4	0.0000	50.2	248.8
J-333	Spring	178.7	0.0000	71.5	229.1
J-334	Spring	178.2	0.0000	73.4	229.9
J-335	East Hill Pressure Zone	245.9	0.0000	75.9	299.4
J-336	East Hill Pressure Zone	240.2	0.0000	83.7	299.2
J-337	East Hill Pressure Zone	250.6	0.0000	67.8	298.4
J-338	East Hill Pressure Zone	236.0	0.0000	88.4	298.3
J-339	Industrial	219.6	0.0000	74.6	272.2
J-340	Industrial	218.2	0.0000	76.7	272.2
J-341	Municipal	210.6	0.0000	53.1	248.0
J-342	Municipal	211.1	0.0000	52.4	248.0
J-343	Municipal	181.1	0.0000	95.0	248.0
J-344	Municipal	187.5	0.0000	85.9	248.0
J-345	Municipal	189.1	0.0000	83.6	248.0
J-346	Municipal	188.1	0.0000	85.0	248.0
J-347	Municipal	209.6	0.0000	54.5	248.0
J-348	Municipal	206.3	0.0000	59.2	248.0
J-349	Municipal	189.2	0.0000	83.5	248.0
J-351	Municipal	209.5	0.0000	54.6	248.0
J-353	Municipal	216.5	0.0000	44.7	248.0
J-354	Municipal	217.0	0.0000	44.0	248.0
J-355	Municipal	212.0	0.0000	51.1	248.0
J-356	Municipal	200.0	0.0000	68.1	247.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	68.1	247.9
J-358	Municipal	200.0	0.0000	68.1	247.9
J-359	Municipal	200.0	0.0000	68.2	248.0
J-360	Municipal	202.0	0.0000	65.3	248.0
J-361	Municipal	201.0	0.0000	66.8	248.0
J-362	Municipal	199.0	0.0000	69.6	248.0
J-363	Municipal	205.5	0.0000	60.3	248.0
J-364	Municipal	205.0	0.0000	61.0	248.0
J-366	Municipal	180.0	0.0000	96.5	248.0
J-367	Municipal	185.0	0.0000	89.4	248.0
J-368	Municipal	180.0	0.0000	96.5	248.0
J-369	Municipal	195.0	0.0000	75.2	248.0
J-370	Municipal	195.0	0.0000	75.2	248.0
J-371	Municipal	210.0	0.0000	53.9	248.0
J-372	Municipal	207.5	0.0000	57.5	248.0
J-373	Municipal	200.0	0.0000	68.1	248.0
J-374	Municipal	208.0	0.0000	56.8	248.0
J-375	Municipal	208.0	0.0000	56.8	248.0
J-376	Municipal	205.0	0.0000	61.0	248.0
J-377	Municipal	203.5	0.0000	63.0	247.9
J-378	Municipal	203.5	0.0000	63.0	247.9
J-381	Municipal	180.0	0.0000	96.3	247.8
J-382	Municipal	180.0	0.0000	96.3	247.8
J-383	Municipal	178.0	0.0000	99.2	247.9
J-384	Municipal	185.0	0.0000	89.4	248.0
J-385	Municipal	185.0	0.0000	89.4	248.0
J-386	Spring	185.0	0.0000	57.8	225.7
J-387	Spring	180.5	0.0000	64.3	225.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	57.9	225.8
J-389	Spring	185.0	0.0000	57.9	225.8
J-390	Spring	185.0	0.0000	57.9	225.8
J-391	Spring	185.0	0.0000	57.9	225.8
J-392	Municipal	210.0	0.0000	54.0	248.0
J-393	Municipal	206.0	0.0000	59.6	248.0
J-394	Municipal	210.0	0.0000	54.0	248.0
J-395	Municipal	209.8	0.0000	54.4	248.1
J-396	Municipal	206.0	0.0000	59.8	248.1
J-397	Municipal	213.0	0.0000	49.7	248.0
J-398	Municipal	214.0	0.0000	48.3	248.0
J-400	Municipal	220.0	0.0000	39.7	248.0
J-401	Municipal	207.5	0.0000	57.5	248.0
J-402	Municipal	207.5	0.0000	57.5	248.0
J-403	Municipal	214.5	0.0000	47.5	248.0
J-404	Municipal	216.0	0.0000	45.4	248.0
J-405	Municipal	220.0	0.0000	39.8	248.0
J-406	Municipal	210.5	0.0000	53.3	248.1
J-407	Municipal	205.0	0.0000	61.1	248.1
J-408	Municipal	210.0	0.0000	54.0	248.1
J-409	Municipal	212.5	0.0000	50.4	248.0
J-410	Municipal	212.0	0.0000	51.1	248.0
J-411	Municipal	215.0	0.0000	46.9	248.0
J-412	Municipal	214.3	0.0000	47.9	248.0
J-413	Municipal	216.0	0.0000	45.5	248.0
J-414	Municipal	214.5	0.0000	47.6	248.1
J-415	Municipal	213.1	0.0000	49.6	248.1
J-416	Municipal	218.0	0.0000	42.7	248.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	42.7	248.1
J-418	Municipal	218.0	0.0000	42.7	248.1
J-419	Municipal	218.0	0.1627	42.7	248.1
J-420	Municipal	218.0	0.0000	42.7	248.1
J-421	Municipal	216.0	0.0000	45.5	248.1
J-422	Municipal	216.0	0.0000	45.5	248.1
J-423	Municipal	215.0	0.0000	46.9	248.1
J-424	Municipal	210.0	0.0000	54.0	248.1
J-425	Spring	186.0	0.0000	57.3	226.3
J-426	Municipal	181.5	0.0000	94.5	248.1
J-428	Spring	186.0	0.0000	57.3	226.3
J-429	Spring	185.0	0.0000	58.7	226.3
J-430	Spring	185.0	0.0000	58.7	226.3
J-431	Spring	185.0	0.0000	58.7	226.3
J-432	Spring	190.0	0.0000	51.5	226.3
J-433	Municipal	208.0	0.0000	56.8	248.0
J-434	Municipal	206.0	0.0000	59.7	248.0
J-435	Municipal	219.5	0.0000	40.6	248.1
J-436	Municipal	178.0	0.0000	99.5	248.1
J-437	Spring	178.0	2.6712	73.5	229.8
J-438	Spring	178.0	3.2796	70.7	227.8
J-439	Spring	185.0	0.0000	58.7	226.3
J-440	Spring	187.0	0.0000	55.8	226.3
J-441	Spring	185.0	0.0000	58.7	226.3
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	56.1	256.0
J-443	East Hill Reduced Pressure Zone	216.0	0.0288	56.8	256.0
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	56.9	256.1
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	56.9	256.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	56.9	256.1
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	56.2	256.1
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	56.2	256.1
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	55.9	256.4
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	55.9	256.4
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	54.9	256.2
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	54.9	256.2
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	56.9	256.6
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	56.9	256.6
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	56.9	256.6
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	57.6	256.6
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	57.6	256.6
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	55.4	257.0
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	56.8	257.0
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	57.0	257.2
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	64.1	257.2
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	57.0	257.2
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	63.1	257.2
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	55.5	257.1
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	59.8	257.1
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	61.2	257.1
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	61.4	257.0
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	54.1	257.1
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	56.9	257.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	59.8	257.1
J-475	East Hill Reduced Pressure Zone	194.0	0.0268	72.9	245.3
J-477	Spring	185.0	0.0000	59.1	226.7
J-478	Spring	195.0	0.0000	44.7	226.5
J-479	Spring	192.0	0.0000	48.9	226.5
J-480	Spring	181.0	0.0000	65.9	227.4
J-481	Industrial	231.0	0.0000	58.5	272.2
J-482	Municipal	216.3	0.0000	45.0	248.0
J-483	Municipal	180.0	0.0000	97.3	248.6
J-484	Municipal	179.0	0.0000	98.8	248.6
J-485	Municipal	178.0	0.0000	100.5	248.8
J-486	Municipal	178.0	0.0000	100.5	248.8
J-487	Municipal	179.0	0.0000	99.2	248.9
J-490	Municipal	178.5	0.0000	99.3	248.5
J-491	Municipal	212.5	0.0000	51.1	248.5
J-492	Municipal	213.0	0.0000	50.4	248.5
J-493	Municipal	215.0	0.0000	47.5	248.5
J-495	Municipal	213.0	0.0000	50.8	248.8
J-496	Municipal	214.5	0.0000	48.7	248.8
J-497	Municipal	180.0	3.0276	97.9	249.0
J-498	Municipal	180.0	1.3374	97.9	249.0
J-499	Municipal	180.0	0.0000	98.0	249.0
J-500	Municipal	180.0	0.0000	98.0	249.0
J-501	Municipal	180.0	0.0000	98.0	249.0
J-502	Municipal	207.0	0.0324	59.4	248.9
J-503	Municipal	206.7	0.0792	59.9	248.9
J-504	Municipal	207.5	0.0000	58.7	248.9
J-505	Municipal	212.0	0.0000	52.3	248.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	57.4	248.9
J-507	Municipal	205.5	0.0000	61.5	248.9
J-508	Municipal	213.0	0.0000	50.9	248.9
J-509	Municipal	215.0	1.1952	48.0	248.8
J-510	Municipal	215.5	0.0000	47.3	248.8
J-511	Industrial	213.5	0.0000	84.0	272.7
J-512	Industrial	218.0	0.0000	76.9	272.2
J-514	Industrial	220.0	0.0000	74.1	272.2
J-515	Municipal	214.0	0.0000	48.4	248.1
J-516	Municipal	214.0	0.0000	48.4	248.1
J-517	Municipal	216.0	0.0000	45.5	248.1
J-518	Municipal	216.0	0.0000	45.5	248.1
J-520	Municipal	217.0	0.0000	44.1	248.1
J-521	Municipal	217.0	0.0000	44.1	248.1
J-525	Municipal	178.8	0.0000	98.4	248.1
J-526	Municipal	179.6	0.0000	97.3	248.1
J-527	Spring	182.0	0.0000	63.2	226.5
J-528	Spring	182.0	0.0000	63.2	226.5
J-529	Municipal	179.0	0.0000	97.9	248.0
J-530	Municipal	179.0	0.0000	97.9	248.0
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	62.2	257.0
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	65.3	257.0
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	63.9	257.0
J-534	Municipal	178.0	0.0000	99.4	248.0
J-535	East Hill Pressure Zone	230.0	0.0000	98.3	299.3
J-536	East Hill Pressure Zone	228.4	0.0000	100.6	299.3
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	35.7	257.0
J-538	East Hill Pressure Zone	240.0	0.0000	84.0	299.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	98.1	248.1
J-540	Municipal	178.0	0.0000	99.5	248.1
J-542	Spring	190.5	0.0000	56.0	229.9
J-543	Spring	184.0	0.0000	65.3	230.0
J-544	Municipal	217.0	0.0000	44.2	248.2
J-545	Municipal	217.5	0.0000	43.5	248.2
J-546	Municipal	217.5	0.0000	43.5	248.2
J-547	Industrial	219.0	0.0000	75.5	272.2
J-548	Industrial	219.0	0.3330	75.5	272.2
J-549	Industrial	219.5	0.0000	74.8	272.2
J-550	Industrial	217.0	0.8602	78.4	272.2
J-552	Industrial	217.5	0.0000	77.9	272.4
J-553	Industrial	218.0	0.0000	77.1	272.3
J-554	Municipal	212.0	0.0000	52.2	248.8
J-555	Municipal	178.0	1.9060	100.4	248.8
J-556	Municipal	179.5	0.0000	98.6	249.0
J-557	Municipal	183.0	0.0000	93.6	249.0
J-558	Industrial	215.0	0.0000	82.2	272.9
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	51.9	256.6
J-560	Municipal	217.2	0.0000	43.8	248.1
J-561	Municipal	185.0	0.0000	89.5	248.1
J-562	Industrial	220.3	0.0000	73.6	272.2
J-563	Industrial	218.7	0.5436	75.9	272.2
J-564	Non-Supply	246.0	0.0000	2.3	247.6
J-565	Industrial	179.5	0.0000	137.5	276.4
J-566	Industrial	179.5	0.0000	137.5	276.4
J-567	Industrial	179.5	0.0000	137.5	276.4
J-568	Industrial	179.5	0.0000	137.5	276.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	134.4	274.2
J-570	Industrial	179.5	0.0000	134.3	274.1
J-571	Industrial	179.5	0.0000	137.5	276.4
J-572	Industrial	179.5	0.0000	134.4	274.2
J-573	Municipal	185.5	0.0000	90.9	249.5
J-574	Municipal	185.5	0.0000	90.9	249.5
J-575	Municipal	185.5	0.0000	90.9	249.5
J-576	Municipal	185.5	0.0000	90.9	249.5
J-578	Municipal	188.5	0.0000	86.6	249.5
J-579	Non-Supply	243.0	0.0000	6.4	247.5
J-580	Non-Supply	243.0	0.0000	6.4	247.5
J-581	East Hill Pressure Zone	243.0	0.0000	80.2	299.5
J-582	East Hill Pressure Zone	243.0	0.0000	80.2	299.5
J-583	East Hill Pressure Zone	243.5	0.0000	77.4	298.0
J-584	East Hill Pressure Zone	243.3	1.4292	77.6	297.9
J-585	Industrial	222.5	0.0000	70.5	272.2
J-586	Industrial	220.6	0.0000	73.2	272.2
J-587	Industrial	221.0	0.0000	72.7	272.2
J-588	Industrial	220.1	0.0000	73.9	272.2
J-589	Industrial	220.4	0.0000	73.5	272.2
J-590	Industrial	224.6	0.0000	67.6	272.2
J-591	Spring	188.3	0.0000	57.2	228.6
J-592	Spring	188.3	0.0000	56.6	228.2
J-593	Spring	188.3	0.0000	56.6	228.2
J-594	Municipal	182.8	0.0000	93.0	248.3
J-595	Industrial	243.3	0.0000	41.0	272.2
J-596	Industrial	229.0	3.0600	61.3	272.2
J-597	East Hill Pressure Zone	229.0	0.0000	96.8	297.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	4.4424	66.0	298.5
J-600	East Hill Pressure Zone	244.5	0.0000	76.0	298.1
J-601	Spring	188.7	0.0000	58.5	229.9
J-602	Municipal	181.5	0.0000	94.5	248.1
J-603	Spring	179.2	0.0000	66.2	225.8
J-604	Spring	179.2	0.0000	66.2	225.8
J-605	Spring	186.7	0.0000	56.3	226.3
J-606	Spring	186.7	0.0000	56.3	226.3
J-607	Municipal	212.1	0.0468	52.1	248.8
J-608	Municipal	215.1	0.0000	47.1	248.2
J-609	Municipal	214.4	0.1062	48.8	248.8
J-610	Industrial	225.8	0.0000	65.9	272.2
J-611	Industrial	225.8	0.0000	65.9	272.2
J-612	Municipal	213.0	0.0000	50.8	248.8
J-613	Municipal	213.0	0.3582	50.8	248.8
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	45.2	257.8
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	43.7	257.8
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	45.1	257.8
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	45.5	257.0
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	52.5	257.0
J-620	Municipal	205.1	0.0000	60.7	247.9
J-621	Municipal	219.5	0.0000	40.6	248.1
J-622	Municipal	216.5	0.0000	44.8	248.1
J-623	Municipal	219.5	0.0000	40.5	248.1
J-624	Municipal	216.5	0.0000	44.8	248.1
J-626	Municipal	220.0	0.0000	39.8	248.0
J-627	Municipal	178.4	0.0000	98.9	248.0
J-628	Municipal	186.2	0.0000	87.8	248.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	93.0	248.1
J-631	Spring	184.6	0.0000	59.2	226.3
J-632	Municipal	183.6	0.0000	91.6	248.1
J-633	Municipal	187.3	0.0000	86.3	248.1
J-634	Municipal	190.0	0.0000	82.5	248.1
J-635	Municipal	180.1	0.0000	96.7	248.2
J-639	Industrial	229.0	1.3086	61.3	272.2
J-640	Municipal	182.1	0.0468	93.9	248.2
J-641	Industrial	224.6	0.0000	67.6	272.2
J-642	Industrial	224.6	0.0000	67.6	272.2
J-643	Industrial	224.6	0.0000	67.6	272.2
J-644	Municipal	180.0	0.0000	97.3	248.6
J-645	Industrial	224.6	0.0000	67.6	272.2
J-646	Industrial	224.6	0.0000	67.6	272.2
J-647	Municipal	213.0	0.0000	49.7	248.0
J-648	Municipal	219.5	0.0442	40.5	248.1
J-649	Municipal	218.0	0.0442	42.7	248.1
J-650	Municipal	219.5	0.0760	40.5	248.1
J-651	Municipal	219.5	0.0442	40.6	248.1
J-652	Municipal	218.0	0.0760	42.7	248.1
J-653	Municipal	218.0	0.0442	42.7	248.1
J-654	Municipal	220.9	0.0548	38.6	248.1
J-658	Municipal	220.5	0.0000	39.1	248.1
J-659	Municipal	186.0	0.0000	88.1	248.1
J-661	Municipal	178.4	0.0000	100.0	248.8
J-662	Spring	190.0	0.0000	56.7	229.9
J-663	Municipal	213.8	0.0000	48.6	248.0
J-664	Municipal	196.0	0.0000	73.7	247.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	83.1	247.9
J-666	Municipal	187.0	0.0000	86.5	248.0
J-667	Municipal	187.2	0.0000	86.3	248.0
J-668	Municipal	178.5	0.0000	98.7	248.0
J-669	Non-Supply	245.0	0.0000	3.6	247.5
J-670	Non-Supply	242.0	0.0000	7.9	247.5
J-671	East Hill Pressure Zone	243.8	0.0000	79.1	299.5
J-672	East Hill Pressure Zone	243.0	0.0000	80.2	299.5
J-673	Industrial	187.0	0.0000	123.7	274.1
J-674	Spring	186.3	0.0000	56.7	226.3
J-675	Industrial	221.5	0.2861	72.0	272.1
J-676	Industrial	220.0	0.0000	74.0	272.1
J-677	Industrial	226.9	2.0268	64.2	272.1
J-678	Industrial	221.4	0.0000	72.0	272.1
J-679	Municipal	214.4	0.0000	47.8	248.1
J-680	Municipal	214.3	0.0000	47.9	248.1
J-681	Municipal	213.1	0.0972	49.6	248.1
J-682	Municipal	214.9	0.0000	48.1	248.8
J-683	Municipal	218.0	0.0000	42.7	248.1
J-684	East Hill Pressure Zone	234.5	8.5302	86.8	295.7
J-685	East Hill Pressure Zone	242.0	0.0000	77.2	296.4
J-687	Spring	188.6	0.0000	58.6	229.9
J-688	Spring	192.0	0.0000	53.8	229.9
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	0.0000	124.0	272.4
J-692	Industrial	214.0	59.3172	82.4	272.0
J-693	Industrial	222.0	0.0000	71.1	272.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	9.9738	49.8	272.1
J-695	East Hill Pressure Zone	237.0	8.6940	82.7	295.3
J-696	East Hill Pressure Zone	242.0	14.2956	75.7	295.3
J-697	East Hill Pressure Zone	242.0	0.0000	76.1	295.6
J-698	Industrial	189.0	5.6286	119.0	272.8
J-699	Industrial	200.0	0.0000	102.7	272.4
J-700	Municipal	200.0	0.0000	102.7	272.4
J-701	Industrial	201.7	0.0000	101.4	273.1
J-702	Spring	185.9	0.0000	57.4	226.3
J-703	Spring	185.9	0.0000	57.4	226.3
J-704	Spring	189.6	0.0000	52.1	226.3
J-705	Spring	189.6	0.0000	52.1	226.3
J-706	Industrial	234.0	0.0000	54.2	272.2
J-707	Industrial	238.0	0.0000	48.5	272.2
J-708	Industrial	236.0	2.6172	51.4	272.2
J-709	East Hill Pressure Zone	230.0	0.0000	93.6	295.9
J-710	Industrial	210.0	0.5940	88.9	272.6
J-711	<None>	230.0	(N/A)	(N/A)	(N/A)
J-712	<None>	251.0	(N/A)	(N/A)	(N/A)
J-713	Municipal	216.0	0.3750	46.6	248.8
J-714	Municipal	209.0	0.1680	56.6	248.9
J-715	Municipal	209.5	0.0000	55.9	248.9
J-716	Municipal	208.5	0.1680	57.3	248.9
J-717	Municipal	208.0	0.1680	58.0	248.9
J-718	Municipal	204.0	0.1680	63.7	248.9
J-719	Municipal	202.0	0.1680	66.5	248.9
J-720	Municipal	209.5	0.3750	55.9	248.8



BURNSIDE

Official Plan – Peak Hour Demand (PHD)

Official Plan - Peak Hour Demand (PHD)

Scenario Summary

<General>

Scenario Id	92
Scenario Label	15 - OFFICIAL PLAN - PH (2.7*ADD)
Scenario Notes	Created: 11/28/06 08:50:06 PM
Calculation Options ID	72
Calculation Options Label	15 - OFFICIAL - PH
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives

Active Topology	1930: 2026 and Beyond - with future pumps
Physical	1929: 2026 and Beyond Upgrades
Demand	1917: Official Plan - PH (2.7*ADD)
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags

Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Official Plan - Peak Hour Demand (PHD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	3.6631	72.6	298.0
J-3	East Hill Pressure Zone	245.7	2.4689	75.0	298.5
J-4	East Hill Pressure Zone	243.8	3.0270	79.5	299.8
J-5	East Hill Pressure Zone	242.2	3.3840	81.1	299.3
J-6	East Hill Pressure Zone	238.3	2.9868	85.7	298.7
J-7	East Hill Reduced Pressure Zone	225.4	2.5092	43.7	256.2
J-8	East Hill Pressure Zone	243.6	0.0000	78.1	298.6
J-9	East Hill Pressure Zone	238.3	0.2388	85.5	298.5
J-10	East Hill Pressure Zone	227.6	0.9151	100.2	298.2
J-11	East Hill Pressure Zone	229.9	0.9956	96.2	297.7
J-12	East Hill Pressure Zone	234.1	1.6719	88.9	296.8
J-13	East Hill Pressure Zone	235.8	1.2747	86.4	296.7
J-14	East Hill Pressure Zone	243.2	0.0000	76.0	296.7
J-15	East Hill Pressure Zone	229.0	0.0000	92.8	294.4
J-16	East Hill Pressure Zone	240.0	6.5319	75.0	292.8
J-17	East Hill Pressure Zone	243.0	1.1907	73.4	294.7
J-18	East Hill Pressure Zone	229.0	0.0000	99.8	299.3
J-19	East Hill Pressure Zone	234.8	0.5582	83.4	293.6
J-20	East Hill Reduced Pressure Zone	226.2	1.8705	44.3	257.4
J-21	East Hill Pressure Zone	247.0	1.5135	66.0	293.5
J-22	East Hill Pressure Zone	234.6	10.8712	78.8	290.1
J-23	East Hill Reduced Pressure Zone	227.7	2.1120	42.4	257.5
J-24	East Hill Pressure Zone	246.0	4.2617	62.5	290.0
J-25	East Hill Pressure Zone	258.2	2.6675	45.0	289.9
J-26	East Hill Pressure Zone	264.3	1.0761	36.4	289.9
J-27	East Hill Pressure Zone	255.1	0.0000	50.8	290.9
J-28	East Hill Pressure Zone	273.5	2.2623	22.8	289.5
J-29	East Hill Pressure Zone	234.6	1.3150	78.0	289.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	1.7524	44.9	255.8
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	41.1	255.6
J-32	East Hill Reduced Pressure Zone	216.7	4.6990	54.1	254.8
J-33	East Hill Reduced Pressure Zone	218.1	6.2125	51.9	254.6
J-34	East Hill Reduced Pressure Zone	216.3	1.3552	55.1	255.1
J-35	East Hill Reduced Pressure Zone	216.7	3.7033	55.4	255.7
J-36	East Hill Reduced Pressure Zone	217.6	1.7523	54.2	255.8
J-37	East Hill Reduced Pressure Zone	214.6	3.1854	58.4	255.7
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	59.2	255.8
J-39	East Hill Reduced Pressure Zone	214.4	5.2974	59.3	256.2
J-40	East Hill Reduced Pressure Zone	217.2	2.5092	55.6	256.4
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	56.1	255.8
J-42	East Hill Reduced Pressure Zone	217.1	1.9107	55.5	256.2
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	53.9	256.0
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	48.3	256.0
J-45	East Hill Reduced Pressure Zone	223.0	0.4374	47.1	256.2
J-46	East Hill Reduced Pressure Zone	219.2	0.4374	52.6	256.2
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	43.9	256.4
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	44.1	256.7
J-49	East Hill Reduced Pressure Zone	217.8	2.5092	54.9	256.5
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	55.0	256.5
J-51	East Hill Reduced Pressure Zone	220.0	3.4645	51.8	256.5
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	43.1	256.9
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	41.5	256.6
J-54	East Hill Reduced Pressure Zone	216.7	1.8705	56.0	256.2
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	57.1	256.1
J-56	East Hill Reduced Pressure Zone	214.8	0.8373	58.7	256.1
J-57	East Hill Reduced Pressure Zone	211.3	0.7568	63.6	256.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.7568	59.0	256.2
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	45.9	256.1
J-60	East Hill Reduced Pressure Zone	221.3	2.5091	49.4	256.1
J-61	Non-Supply	242.2	0.0000	7.4	247.4
J-64	Non-Supply	238.3	0.0000	13.2	247.6
J-65	Non-Supply	226.6	0.0000	29.9	247.7
J-66	Municipal	213.8	3.1374	48.4	247.9
J-67	Municipal	183.6	0.0000	91.6	248.2
J-68	Municipal	215.8	0.4721	45.6	247.9
J-69	Municipal	216.1	1.3499	45.3	248.0
J-70	Municipal	215.7	1.3181	46.0	248.1
J-71	Municipal	215.8	0.9256	45.8	248.1
J-72	Municipal	213.7	1.0078	48.8	248.1
J-73	Municipal	210.7	0.4721	53.2	248.2
J-74	Municipal	211.3	0.9919	52.5	248.3
J-75	Municipal	213.6	0.9585	49.1	248.2
J-76	Municipal	211.3	0.0000	52.6	248.4
J-77	Municipal	211.7	0.3421	52.1	248.4
J-78	Municipal	213.1	1.2358	50.1	248.4
J-79	Municipal	214.3	1.2677	48.1	248.2
J-80	Municipal	215.6	1.2995	46.2	248.1
J-81	Industrial	217.1	0.7990	51.5	253.4
J-82	Municipal	217.1	0.9441	44.1	248.2
J-83	Municipal	217.7	0.0000	43.3	248.2
J-84	Municipal	216.7	0.3726	44.8	248.2
J-85	Municipal	216.6	0.0000	45.3	248.5
J-86	Municipal	217.6	0.0000	43.9	248.5
J-87	Municipal	214.6	2.5512	48.2	248.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.7479	46.9	248.6
J-90	Municipal	216.3	1.0554	45.9	248.6
J-91	Municipal	215.8	0.7479	46.3	248.4
J-92	Municipal	214.2	1.0078	48.8	248.6
J-93	Municipal	214.2	1.0396	48.6	248.5
J-94	Municipal	213.3	0.6020	50.2	248.6
J-95	Municipal	180.6	1.7239	96.3	248.4
J-96	Municipal	180.6	0.0000	96.3	248.4
J-97	Municipal	188.7	0.0000	87.1	250.1
J-98	Municipal	190.2	0.0000	84.2	249.5
J-99	Municipal	187.7	1.1696	87.7	249.5
J-100	Municipal	202.4	1.2128	66.4	249.2
J-101	Municipal	204.0	0.0000	64.1	249.1
J-102	Municipal	201.4	0.5702	67.7	249.1
J-103	Municipal	205.6	0.8078	61.7	249.0
J-104	Municipal	180.2	0.0000	96.3	248.0
J-105	Municipal	179.8	0.0000	96.7	247.9
J-106	Municipal	184.1	0.0000	90.6	247.9
J-107	Municipal	182.6	0.0000	92.6	247.9
J-109	East Hill Pressure Zone	226.7	0.0000	89.2	289.5
J-115	Municipal	182.6	0.0000	92.6	247.8
J-116	Municipal	188.2	0.0000	84.4	247.7
J-117	Municipal	189.0	0.0981	83.3	247.7
J-118	Municipal	217.2	0.9441	43.2	247.7
J-119	Municipal	218.6	0.0000	41.2	247.7
J-120	Municipal	217.2	0.6499	43.2	247.7
J-121	Municipal	217.4	1.4134	42.9	247.7
J-122	East Hill Pressure Zone	238.0	0.0000	78.1	293.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	6.2125	75.0	292.8
J-124	Municipal	217.0	0.7957	43.5	247.7
J-125	Municipal	217.0	0.5197	43.5	247.7
J-126	Municipal	216.6	0.4058	44.1	247.7
J-127	Municipal	216.1	1.1856	44.8	247.7
J-128	Municipal	215.3	0.0000	45.9	247.7
J-129	Municipal	212.6	0.0822	49.7	247.6
J-130	Municipal	213.1	0.4217	49.0	247.6
J-131	Municipal	213.6	1.0900	48.2	247.6
J-132	Municipal	213.8	1.5276	47.9	247.5
J-133	Municipal	211.7	0.9096	50.9	247.6
J-134	Municipal	213.6	1.3499	48.2	247.5
J-135	Municipal	211.6	0.1777	51.2	247.6
J-136	Municipal	210.8	0.5197	52.3	247.7
J-137	Municipal	211.4	1.2358	51.4	247.6
J-138	Municipal	211.2	5.7550	51.5	247.5
J-139	Municipal	214.7	1.6920	46.5	247.5
J-140	Municipal	211.8	0.8937	50.7	247.5
J-141	Municipal	212.6	0.0000	49.5	247.5
J-142	Municipal	210.7	1.0238	52.2	247.5
J-143	Municipal	209.8	1.7715	53.5	247.5
J-144	Municipal	211.2	0.9096	51.6	247.5
J-145	Municipal	209.7	2.2914	54.1	247.8
J-146	Municipal	210.2	2.9597	53.0	247.6
J-147	Municipal	209.0	3.2197	54.6	247.5
J-148	Municipal	181.6	0.0000	93.6	247.5
J-149	Municipal	180.4	0.0000	95.7	247.8
J-150	Municipal	177.7	0.0000	99.4	247.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.5197	98.4	247.7
J-152	Municipal	178.7	0.0000	97.8	247.6
J-153	Municipal	179.6	0.0000	96.4	247.5
J-154	Municipal	178.9	0.3580	97.4	247.5
J-155	Municipal	190.6	3.7394	80.8	247.5
J-156	Municipal	179.4	0.5702	96.7	247.5
J-157	Municipal	178.6	0.5702	97.9	247.6
J-158	Municipal	186.2	1.0079	87.1	247.6
J-159	Municipal	179.6	0.7479	96.5	247.6
J-160	Municipal	187.8	3.6917	84.9	247.6
J-161	Municipal	184.1	0.0000	90.1	247.6
J-162	Municipal	178.3	0.0000	98.4	247.6
J-163	Municipal	187.1	0.0000	85.6	247.4
J-164	Municipal	189.6	3.3974	82.0	247.4
J-165	Municipal	189.8	0.3899	81.7	247.4
J-166	Municipal	189.4	0.2600	82.3	247.4
J-167	Municipal	196.8	0.4879	71.7	247.3
J-168	Municipal	199.6	0.0000	67.8	247.3
J-169	Municipal	204.1	0.0000	61.4	247.3
J-170	Municipal	202.2	0.7957	64.1	247.3
J-171	Municipal	194.7	0.3075	74.8	247.4
J-172	Municipal	190.1	0.3899	81.3	247.4
J-173	Municipal	187.7	0.0000	85.0	247.6
J-176	East Hill Pressure Zone	240.0	0.0000	74.9	292.8
J-177	East Hill Pressure Zone	239.0	6.2124	76.2	292.7
J-178	Municipal	180.6	0.0000	95.0	247.5
J-179	Municipal	202.2	0.0000	64.3	247.5
J-180	Municipal	211.5	0.0000	51.1	247.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	98.2	247.6
J-182	Municipal	178.1	0.0000	98.8	247.7
J-183	Municipal	178.1	0.0000	98.8	247.7
J-184	Municipal	178.7	0.0000	97.8	247.6
J-185	Municipal	182.1	0.0000	93.0	247.6
J-186	Municipal	187.8	0.0000	84.9	247.6
J-187	Municipal	195.4	0.0000	74.1	247.6
J-188	Municipal	187.3	0.0000	85.4	247.5
J-189	Municipal	188.2	0.0000	84.0	247.4
J-190	Municipal	190.1	0.0000	81.3	247.4
J-191	Municipal	191.7	0.0000	79.1	247.4
J-192	Municipal	202.6	0.0000	63.6	247.4
J-193	Municipal	185.3	1.0741	88.1	247.3
J-194	Municipal	200.0	0.0000	67.2	247.3
J-195	Municipal	201.6	1.6920	64.8	247.2
J-196	Municipal	202.6	2.1455	63.4	247.2
J-197	Municipal	205.1	0.0000	59.8	247.2
J-198	Municipal	200.6	0.0000	66.2	247.2
J-199	Municipal	199.2	0.7479	68.1	247.2
J-200	Municipal	201.6	1.5117	64.7	247.2
J-201	Municipal	203.9	0.0000	61.4	247.2
J-202	Municipal	204.2	0.0000	61.0	247.2
J-203	Municipal	186.6	0.1300	86.0	247.2
J-204	Municipal	186.1	1.0237	86.7	247.1
J-205	Municipal	182.1	0.5702	92.3	247.1
J-206	Municipal	178.8	0.0000	97.0	247.1
J-208	Municipal	188.1	0.3075	83.8	247.1
J-209	Municipal	188.3	0.0000	83.5	247.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	71.5	247.1
J-211	Municipal	185.2	0.0000	87.9	247.1
J-212	Municipal	183.8	0.9919	89.9	247.1
J-213	Municipal	182.7	0.0000	91.5	247.1
J-214	Municipal	185.6	0.0000	87.3	247.1
J-215	Municipal	186.8	0.4402	85.6	247.1
J-216	Municipal	186.1	0.9601	86.6	247.1
J-217	Municipal	220.4	0.1459	38.7	247.7
J-219	Municipal	218.5	0.0000	41.4	247.7
J-220	Municipal	220.5	0.0000	38.6	247.7
J-223	Spring	188.2	0.0000	47.2	221.4
J-224	Spring	187.3	0.0000	48.5	221.4
J-225	Spring	186.7	0.9256	49.3	221.4
J-226	Spring	185.9	1.5780	50.5	221.4
J-227	Spring	186.1	0.7161	50.2	221.4
J-228	Spring	186.6	1.0078	49.5	221.4
J-229	Spring	186.6	1.5594	49.5	221.4
J-230	Spring	187.4	0.6498	48.3	221.5
J-231	Spring	189.6	1.1059	45.2	221.5
J-232	Spring	186.1	1.5594	50.2	221.5
J-233	Spring	186.4	1.1855	49.8	221.5
J-234	Spring	188.7	1.0238	46.5	221.5
J-235	Spring	194.3	0.0000	38.6	221.5
J-236	Spring	184.1	1.0078	53.0	221.5
J-237	Spring	185.6	0.8097	51.0	221.5
J-238	Spring	187.2	1.0237	48.7	221.5
J-239	Spring	190.1	0.6498	44.6	221.5
J-240	Spring	182.1	0.9919	56.4	221.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	1.0395	55.6	221.8
J-242	Spring	183.6	0.8460	54.2	221.8
J-243	Spring	185.7	1.8220	51.2	221.8
J-244	Spring	187.9	0.8460	48.0	221.7
J-245	Spring	180.1	0.0000	59.5	222.0
J-246	Spring	180.2	1.0237	59.7	222.3
J-247	Spring	181.2	2.1014	58.6	222.5
J-248	Spring	182.2	0.1140	57.5	222.7
J-249	Spring	185.6	0.9441	52.0	222.3
J-250	Spring	179.9	0.0000	62.2	223.8
J-251	Spring	181.6	0.0000	59.8	223.7
J-252	Spring	183.6	2.9438	57.0	223.7
J-253	Spring	180.1	0.2281	64.0	225.2
J-254	Spring	183.9	1.2358	58.6	225.2
J-255	Spring	178.2	1.1218	71.9	228.8
J-256	Spring	184.1	1.5780	61.3	227.3
J-257	Spring	188.3	1.5117	54.8	226.9
J-258	Spring	182.8	0.7479	66.2	229.4
J-259	Spring	190.6	0.5861	54.3	228.9
J-260	Spring	183.8	1.8538	64.3	229.1
J-261	Spring	190.1	0.0000	55.3	229.1
J-262	Spring	180.6	0.1300	68.8	229.1
J-263	Spring	179.8	0.5516	58.7	221.2
J-264	Spring	182.6	1.3499	55.0	221.3
J-265	Spring	181.8	0.0000	55.2	220.7
J-267	Spring	182.6	0.6816	53.8	220.5
J-268	Spring	184.6	0.3262	50.8	220.4
J-269	Spring	181.3	4.9090	55.5	220.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.5516	57.1	220.7
J-271	Spring	180.8	1.4480	56.0	220.3
J-272	Spring	179.8	2.2118	57.5	220.3
J-273	Spring	179.6	0.0000	57.9	220.4
J-274	Spring	178.8	3.6413	59.1	220.4
J-275	Spring	180.1	0.7638	56.9	220.2
J-276	Spring	179.8	0.7956	57.3	220.2
J-277	Spring	179.1	0.6816	58.3	220.2
J-278	Spring	178.8	4.0471	58.8	220.2
J-279	Spring	177.9	0.0000	60.1	220.2
J-280	Spring	179.5	0.0000	57.7	220.2
J-281	Spring	178.8	0.0000	58.8	220.2
J-282	Spring	186.1	1.0396	48.3	220.1
J-283	Spring	182.6	2.7157	53.3	220.1
J-284	Spring	179.4	1.1059	57.8	220.1
J-285	Spring	179.2	0.6179	58.1	220.1
J-286	Spring	178.9	0.0000	58.6	220.2
J-287	Spring	178.6	0.0000	59.0	220.2
J-288	Spring	178.4	1.8379	59.3	220.2
J-289	Spring	177.9	0.0000	60.1	220.2
J-291	Industrial	189.3	0.0000	94.7	256.0
J-292	Industrial	183.5	17.3320	100.9	254.6
J-293	Industrial	201.7	13.5999	76.3	255.4
J-294	Industrial	211.4	0.0000	61.1	254.5
J-295	Industrial	214.4	20.5092	56.2	254.0
J-296	Industrial	218.6	4.2810	49.7	253.6
J-297	Industrial	214.4	7.8219	56.8	254.4
J-298	Industrial	214.2	1.6767	56.6	254.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	4.2810	55.5	253.9
J-300	Industrial	213.8	2.7294	57.5	254.3
J-301	Industrial	214.6	0.0000	55.8	253.9
J-302	Industrial	214.8	29.0334	54.7	253.3
J-303	Industrial	218.6	0.0000	49.7	253.6
J-304	Industrial	222.8	26.5527	43.1	253.1
J-305	Industrial	220.7	0.0000	46.6	253.5
J-306	Industrial	226.2	9.1854	38.6	253.4
J-307	Industrial	219.6	3.3912	47.9	253.4
J-308	Industrial	225.8	0.0000	39.1	253.4
J-309	Industrial	216.7	11.2290	51.9	253.3
J-310	Industrial	217.1	0.3726	51.4	253.3
J-311	Industrial	218.2	0.8395	49.8	253.3
J-312	Industrial	218.0	5.0028	50.1	253.3
J-313	Industrial	220.3	0.0000	46.8	253.3
J-314	Industrial	221.3	0.8775	45.4	253.3
J-315	Industrial	218.7	0.8395	49.2	253.3
J-316	Industrial	217.1	0.6748	51.5	253.4
J-317	Industrial	218.7	0.3266	49.2	253.4
J-318	Industrial	220.4	0.0000	46.7	253.3
J-319	Industrial	219.4	0.6748	48.1	253.3
J-320	Industrial	219.8	0.4913	47.5	253.2
J-321	Industrial	222.4	0.4913	43.9	253.3
J-322	Industrial	224.3	0.4913	41.2	253.3
J-323	Industrial	221.4	0.3266	45.3	253.3
J-324	Industrial	220.6	0.3266	46.4	253.3
J-325	Industrial	226.6	0.3266	38.0	253.4
J-326	Municipal	189.3	0.0000	82.9	247.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	89.7	247.8
J-328	Municipal	178.4	0.0000	100.3	249.1
J-329	Municipal	211.7	0.0000	52.9	249.0
J-330	Municipal	211.8	0.6723	52.8	249.0
J-331	Municipal	214.6	0.0000	48.7	248.9
J-332	Municipal	213.4	0.0000	50.4	248.9
J-333	Spring	178.7	0.0000	68.9	227.2
J-334	Spring	178.2	0.0000	72.2	229.0
J-335	East Hill Pressure Zone	245.9	0.0000	75.2	298.8
J-336	East Hill Pressure Zone	240.2	0.0000	82.7	298.4
J-337	East Hill Pressure Zone	250.6	0.0000	65.5	296.8
J-338	East Hill Pressure Zone	236.0	0.0000	86.1	296.6
J-339	Industrial	219.6	0.0000	47.8	253.3
J-340	Industrial	218.2	0.0000	49.9	253.3
J-341	Municipal	210.6	0.0000	52.5	247.6
J-342	Municipal	211.1	0.0000	51.8	247.6
J-343	Municipal	181.1	0.0000	94.3	247.5
J-344	Municipal	187.5	0.0000	85.2	247.5
J-345	Municipal	189.1	0.0000	82.9	247.5
J-346	Municipal	188.1	0.0000	84.4	247.5
J-347	Municipal	209.6	0.0000	53.8	247.5
J-348	Municipal	206.3	0.0000	58.5	247.5
J-349	Municipal	189.2	0.0000	82.8	247.5
J-351	Municipal	209.5	0.0000	53.9	247.5
J-353	Municipal	216.5	0.0000	44.0	247.5
J-354	Municipal	217.0	0.0000	43.3	247.5
J-355	Municipal	212.0	0.0000	50.4	247.5
J-356	Municipal	200.0	0.0000	67.3	247.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	67.3	247.4
J-358	Municipal	200.0	0.0000	67.3	247.4
J-359	Municipal	200.0	0.0000	67.6	247.6
J-360	Municipal	202.0	0.0000	64.7	247.6
J-361	Municipal	201.0	0.0000	66.1	247.6
J-362	Municipal	199.0	0.0000	69.0	247.6
J-363	Municipal	205.5	0.0000	59.6	247.5
J-364	Municipal	205.0	0.0000	60.3	247.5
J-366	Municipal	180.0	0.0000	95.8	247.5
J-367	Municipal	185.0	0.0000	88.7	247.5
J-368	Municipal	180.0	0.0000	95.8	247.5
J-369	Municipal	195.0	0.0000	74.5	247.5
J-370	Municipal	195.0	0.0000	74.5	247.5
J-371	Municipal	210.0	0.0000	53.2	247.5
J-372	Municipal	207.5	0.0000	56.8	247.5
J-373	Municipal	200.0	0.0000	67.4	247.5
J-374	Municipal	208.0	0.0000	56.1	247.5
J-375	Municipal	208.0	0.0000	56.1	247.5
J-376	Municipal	205.0	0.0000	60.3	247.5
J-377	Municipal	203.5	0.0000	62.2	247.3
J-378	Municipal	203.5	0.0000	62.2	247.3
J-381	Municipal	180.0	0.0000	95.3	247.2
J-382	Municipal	180.0	0.0000	95.3	247.2
J-383	Municipal	178.0	0.0000	98.4	247.3
J-384	Municipal	185.0	0.0000	88.7	247.5
J-385	Municipal	185.0	0.0000	88.7	247.5
J-386	Spring	185.0	0.0000	50.0	220.2
J-387	Spring	180.5	0.0000	56.4	220.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	50.0	220.2
J-389	Spring	185.0	0.0000	50.1	220.3
J-390	Spring	185.0	0.0000	50.1	220.3
J-391	Spring	185.0	0.0000	50.1	220.3
J-392	Municipal	210.0	0.0000	53.3	247.6
J-393	Municipal	206.0	0.0000	59.0	247.6
J-394	Municipal	210.0	0.0000	53.3	247.6
J-395	Municipal	209.8	0.0000	53.9	247.8
J-396	Municipal	206.0	0.0000	59.3	247.8
J-397	Municipal	213.0	0.0000	49.0	247.5
J-398	Municipal	214.0	0.0000	47.6	247.5
J-400	Municipal	220.0	0.0000	39.0	247.5
J-401	Municipal	207.5	0.0000	56.8	247.5
J-402	Municipal	207.5	0.0000	56.8	247.5
J-403	Municipal	214.5	0.0000	46.8	247.5
J-404	Municipal	216.0	0.0000	44.7	247.5
J-405	Municipal	220.0	0.0000	39.1	247.5
J-406	Municipal	210.5	0.0000	52.7	247.6
J-407	Municipal	205.0	0.0000	60.5	247.6
J-408	Municipal	210.0	0.0000	53.4	247.6
J-409	Municipal	212.5	0.0000	49.8	247.6
J-410	Municipal	212.0	0.0000	50.5	247.6
J-411	Municipal	215.0	0.0000	46.2	247.6
J-412	Municipal	214.3	0.0000	47.2	247.6
J-413	Municipal	216.0	0.0000	44.8	247.6
J-414	Municipal	214.5	0.0000	47.1	247.7
J-415	Municipal	213.1	0.0000	49.1	247.7
J-416	Municipal	218.0	0.0000	42.1	247.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	42.1	247.7
J-418	Municipal	218.0	0.0000	42.1	247.7
J-419	Municipal	218.0	0.2440	42.1	247.7
J-420	Municipal	218.0	0.0000	42.1	247.7
J-421	Municipal	216.0	0.0000	44.9	247.7
J-422	Municipal	216.0	0.0000	44.9	247.7
J-423	Municipal	215.0	0.0000	46.4	247.7
J-424	Municipal	210.0	0.0000	53.5	247.7
J-425	Spring	186.0	0.0000	50.3	221.4
J-426	Municipal	181.5	0.0000	93.9	247.7
J-428	Spring	186.0	0.0000	50.3	221.4
J-429	Spring	185.0	0.0000	51.7	221.4
J-430	Spring	185.0	0.0000	51.7	221.4
J-431	Spring	185.0	0.0000	51.7	221.5
J-432	Spring	190.0	0.0000	44.5	221.3
J-433	Municipal	208.0	0.0000	56.2	247.6
J-434	Municipal	206.0	0.0000	59.0	247.6
J-435	Municipal	219.5	0.0000	40.0	247.7
J-436	Municipal	178.0	0.0000	99.0	247.7
J-437	Spring	178.0	4.0068	72.1	228.8
J-438	Spring	178.0	4.9194	66.2	224.6
J-439	Spring	185.0	0.0000	51.7	221.4
J-440	Spring	187.0	0.0000	48.9	221.4
J-441	Spring	185.0	0.0000	51.7	221.4
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	54.1	254.6
J-443	East Hill Reduced Pressure Zone	216.0	0.0432	54.9	254.6
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	55.1	254.8
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	55.1	254.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	55.1	254.8
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	54.4	254.8
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	54.4	254.8
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	54.4	255.3
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	54.4	255.3
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	53.2	255.0
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	53.2	255.0
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	55.7	255.7
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	55.7	255.7
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	55.7	255.7
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	56.4	255.7
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	56.4	255.7
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	54.4	256.3
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	55.8	256.3
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	56.1	256.5
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	63.2	256.5
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	56.1	256.5
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	62.2	256.5
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	54.6	256.4
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	58.7	256.4
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	60.1	256.4
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	60.3	256.2
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	53.0	256.3
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	55.8	256.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	58.7	256.3
J-475	East Hill Reduced Pressure Zone	194.0	0.0403	72.9	245.3
J-477	Spring	185.0	0.0000	52.7	222.2
J-478	Spring	195.0	0.0000	37.9	221.7
J-479	Spring	192.0	0.0000	42.2	221.7
J-480	Spring	181.0	0.0000	60.7	223.8
J-481	Industrial	231.0	0.0000	31.7	253.3
J-482	Municipal	216.3	0.0000	44.9	247.9
J-483	Municipal	180.0	0.0000	97.3	248.6
J-484	Municipal	179.0	0.0000	98.8	248.6
J-485	Municipal	178.0	0.0000	100.8	249.0
J-486	Municipal	178.0	0.0000	100.8	249.0
J-487	Municipal	179.0	0.0000	99.5	249.1
J-490	Municipal	178.5	0.0000	99.3	248.4
J-491	Municipal	212.5	0.0000	51.1	248.5
J-492	Municipal	213.0	0.0000	50.4	248.5
J-493	Municipal	215.0	0.0000	47.5	248.5
J-495	Municipal	213.0	0.0000	51.0	248.9
J-496	Municipal	214.5	0.0000	48.9	248.9
J-497	Municipal	180.0	4.5414	98.2	249.2
J-498	Municipal	180.0	2.0061	98.2	249.2
J-499	Municipal	180.0	0.0000	98.3	249.3
J-500	Municipal	180.0	0.0000	98.3	249.3
J-501	Municipal	180.0	0.0000	98.3	249.3
J-502	Municipal	207.0	0.0486	59.7	249.1
J-503	Municipal	206.7	0.1188	60.2	249.1
J-504	Municipal	207.5	0.0000	59.0	249.1
J-505	Municipal	212.0	0.0000	52.6	249.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	57.7	249.0
J-507	Municipal	205.5	0.0000	61.8	249.0
J-508	Municipal	213.0	0.0000	51.2	249.0
J-509	Municipal	215.0	1.7928	48.2	249.0
J-510	Municipal	215.5	0.0000	47.6	249.0
J-511	Industrial	213.5	0.0000	58.1	254.4
J-512	Industrial	218.0	0.0000	50.1	253.3
J-514	Industrial	220.0	0.0000	47.2	253.3
J-515	Municipal	214.0	0.0000	47.8	247.7
J-516	Municipal	214.0	0.0000	47.8	247.7
J-517	Municipal	216.0	0.0000	44.9	247.7
J-518	Municipal	216.0	0.0000	44.9	247.7
J-520	Municipal	217.0	0.0000	43.5	247.7
J-521	Municipal	217.0	0.0000	43.5	247.7
J-525	Municipal	178.8	0.0000	98.0	247.8
J-526	Municipal	179.6	0.0000	96.8	247.8
J-527	Spring	182.0	0.0000	56.6	221.9
J-528	Spring	182.0	0.0000	56.6	221.9
J-529	Municipal	179.0	0.0000	97.3	247.5
J-530	Municipal	179.0	0.0000	97.3	247.5
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	61.1	256.2
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	64.2	256.3
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	62.9	256.3
J-534	Municipal	178.0	0.0000	98.8	247.6
J-535	East Hill Pressure Zone	230.0	0.0000	97.4	298.7
J-536	East Hill Pressure Zone	228.4	0.0000	99.7	298.7
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	34.4	256.1
J-538	East Hill Pressure Zone	240.0	0.0000	83.1	298.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	97.5	247.7
J-540	Municipal	178.0	0.0000	99.0	247.7
J-542	Spring	190.5	0.0000	54.8	229.1
J-543	Spring	184.0	0.0000	64.1	229.2
J-544	Municipal	217.0	0.0000	44.0	248.0
J-545	Municipal	217.5	0.0000	43.3	248.0
J-546	Municipal	217.5	0.0000	43.3	248.0
J-547	Industrial	219.0	0.0000	48.8	253.4
J-548	Industrial	219.0	0.4995	48.8	253.4
J-549	Industrial	219.5	0.0000	48.1	253.4
J-550	Industrial	217.0	1.2902	51.6	253.3
J-552	Industrial	217.5	0.0000	51.5	253.8
J-553	Industrial	218.0	0.0000	50.6	253.6
J-554	Municipal	212.0	0.0000	52.5	249.0
J-555	Municipal	178.0	2.8589	100.3	248.7
J-556	Municipal	179.5	0.0000	98.8	249.1
J-557	Municipal	183.0	0.0000	93.8	249.1
J-558	Industrial	215.0	0.0000	56.6	254.9
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	50.8	255.8
J-560	Municipal	217.2	0.0000	43.2	247.7
J-561	Municipal	185.0	0.0000	89.0	247.7
J-562	Industrial	220.3	0.0000	46.8	253.3
J-563	Industrial	218.7	0.8154	49.2	253.3
J-564	Non-Supply	246.0	0.0000	2.2	247.6
J-565	Industrial	179.5	0.0000	113.5	259.5
J-566	Industrial	179.5	0.0000	113.5	259.5
J-567	Industrial	179.5	0.0000	113.5	259.5
J-568	Industrial	179.5	0.0000	113.4	259.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	110.8	257.6
J-570	Industrial	179.5	0.0000	110.6	257.4
J-571	Industrial	179.5	0.0000	113.4	259.4
J-572	Industrial	179.5	0.0000	110.7	257.5
J-573	Municipal	185.5	0.0000	91.9	250.2
J-574	Municipal	185.5	0.0000	91.8	250.2
J-575	Municipal	185.5	0.0000	91.8	250.2
J-576	Municipal	185.5	0.0000	91.7	250.1
J-578	Municipal	188.5	0.0000	87.5	250.1
J-579	Non-Supply	243.0	0.0000	6.3	247.4
J-580	Non-Supply	243.0	0.0000	6.3	247.4
J-581	East Hill Pressure Zone	243.0	0.0000	79.8	299.2
J-582	East Hill Pressure Zone	243.0	0.0000	79.8	299.2
J-583	East Hill Pressure Zone	243.5	0.0000	74.5	296.0
J-584	East Hill Pressure Zone	243.3	2.1438	74.6	295.8
J-585	Industrial	222.5	0.0000	43.7	253.3
J-586	Industrial	220.6	0.0000	46.5	253.3
J-587	Industrial	221.0	0.0000	45.9	253.3
J-588	Industrial	220.1	0.0000	47.2	253.3
J-589	Industrial	220.4	0.0000	46.7	253.3
J-590	Industrial	224.6	0.0000	40.9	253.3
J-591	Spring	188.3	0.0000	53.8	226.2
J-592	Spring	188.3	0.0000	52.6	225.3
J-593	Spring	188.3	0.0000	52.6	225.3
J-594	Municipal	182.8	0.0000	92.7	248.1
J-595	Industrial	243.3	0.0000	14.2	253.3
J-596	Industrial	229.0	4.5900	34.5	253.3
J-597	East Hill Pressure Zone	229.0	0.0000	92.6	294.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	6.6636	63.9	297.0
J-600	East Hill Pressure Zone	244.5	0.0000	73.3	296.1
J-601	Spring	188.7	0.0000	57.3	229.1
J-602	Municipal	181.5	0.0000	93.9	247.7
J-603	Spring	179.2	0.0000	58.5	220.4
J-604	Spring	179.2	0.0000	58.5	220.4
J-605	Spring	186.7	0.0000	49.3	221.4
J-606	Spring	186.7	0.0000	49.3	221.4
J-607	Municipal	212.1	0.0702	52.3	248.9
J-608	Municipal	215.1	0.0000	47.0	248.1
J-609	Municipal	214.4	0.1593	49.1	249.0
J-610	Industrial	225.8	0.0000	39.1	253.3
J-611	Industrial	225.8	0.0000	39.1	253.3
J-612	Municipal	213.0	0.0000	51.0	248.9
J-613	Municipal	213.0	0.5373	51.0	248.9
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	44.8	257.5
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	43.3	257.5
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	44.7	257.5
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	44.3	256.2
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	51.3	256.1
J-620	Municipal	205.1	0.0000	59.8	247.2
J-621	Municipal	219.5	0.0000	40.0	247.7
J-622	Municipal	216.5	0.0000	44.2	247.7
J-623	Municipal	219.5	0.0000	40.0	247.7
J-624	Municipal	216.5	0.0000	44.2	247.7
J-626	Municipal	220.0	0.0000	39.1	247.5
J-627	Municipal	178.4	0.0000	98.2	247.6
J-628	Municipal	186.2	0.0000	87.1	247.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	92.5	247.8
J-631	Spring	184.6	0.0000	52.1	221.3
J-632	Municipal	183.6	0.0000	91.1	247.8
J-633	Municipal	187.3	0.0000	85.7	247.7
J-634	Municipal	190.0	0.0000	81.9	247.7
J-635	Municipal	180.1	0.0000	96.4	248.0
J-639	Industrial	229.0	1.9629	34.5	253.3
J-640	Municipal	182.1	0.0702	93.5	248.0
J-641	Industrial	224.6	0.0000	40.9	253.3
J-642	Industrial	224.6	0.0000	40.9	253.3
J-643	Industrial	224.6	0.0000	40.9	253.3
J-644	Municipal	180.0	0.0000	97.4	248.6
J-645	Industrial	224.6	0.0000	40.9	253.3
J-646	Industrial	224.6	0.0000	40.9	253.3
J-647	Municipal	213.0	0.0000	49.6	247.9
J-648	Municipal	219.5	0.0663	40.0	247.7
J-649	Municipal	218.0	0.0663	42.1	247.7
J-650	Municipal	219.5	0.1140	40.0	247.7
J-651	Municipal	219.5	0.0663	40.0	247.7
J-652	Municipal	218.0	0.1140	42.1	247.7
J-653	Municipal	218.0	0.0663	42.1	247.7
J-654	Municipal	220.9	0.0822	38.0	247.7
J-658	Municipal	220.5	0.0000	38.6	247.7
J-659	Municipal	186.0	0.0000	87.5	247.7
J-661	Municipal	178.4	0.0000	100.3	249.0
J-662	Spring	190.0	0.0000	55.4	229.0
J-663	Municipal	213.8	0.0000	48.4	247.9
J-664	Municipal	196.0	0.0000	73.0	247.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	82.3	247.4
J-666	Municipal	187.0	0.0000	85.8	247.4
J-667	Municipal	187.2	0.0000	85.5	247.5
J-668	Municipal	178.5	0.0000	98.1	247.6
J-669	Non-Supply	245.0	0.0000	3.4	247.4
J-670	Non-Supply	242.0	0.0000	7.7	247.4
J-671	East Hill Pressure Zone	243.8	0.0000	78.7	299.2
J-672	East Hill Pressure Zone	243.0	0.0000	79.8	299.2
J-673	Industrial	187.0	0.0000	100.0	257.4
J-674	Spring	186.3	0.0000	49.7	221.3
J-675	Industrial	221.5	0.4292	45.1	253.2
J-676	Industrial	220.0	0.0000	47.2	253.2
J-677	Industrial	226.9	3.0402	37.3	253.2
J-678	Industrial	221.4	0.0000	45.2	253.2
J-679	Municipal	214.4	0.0000	47.2	247.7
J-680	Municipal	214.3	0.0000	47.4	247.7
J-681	Municipal	213.1	0.1459	49.1	247.7
J-682	Municipal	214.9	0.0000	48.4	249.0
J-683	Municipal	218.0	0.0000	42.1	247.7
J-684	East Hill Pressure Zone	234.5	12.7953	80.2	291.0
J-685	East Hill Pressure Zone	242.0	0.0000	71.9	292.6
J-687	Spring	188.6	0.0000	57.3	229.0
J-688	Spring	192.0	0.0000	52.5	229.0
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	0.0000	97.5	253.7
J-692	Industrial	214.0	88.9758	55.3	253.0
J-693	Industrial	222.0	0.0000	44.1	253.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	14.9607	22.9	253.1
J-695	East Hill Pressure Zone	237.0	13.0410	75.5	290.2
J-696	East Hill Pressure Zone	242.0	21.4434	68.6	290.4
J-697	East Hill Pressure Zone	242.0	0.0000	69.5	291.0
J-698	Industrial	189.0	8.4429	93.2	254.7
J-699	Industrial	200.0	0.0000	76.2	253.7
J-700	Municipal	200.0	0.0000	76.2	253.7
J-701	Industrial	201.7	0.0000	76.0	255.3
J-702	Spring	185.9	0.0000	50.5	221.4
J-703	Spring	185.9	0.0000	50.5	221.4
J-704	Spring	189.6	0.0000	45.2	221.5
J-705	Spring	189.6	0.0000	45.2	221.5
J-706	Industrial	234.0	0.0000	27.5	253.3
J-707	Industrial	238.0	0.0000	21.8	253.3
J-708	Industrial	236.0	3.9258	24.6	253.3
J-709	East Hill Pressure Zone	230.0	0.0000	87.4	291.6
J-710	Industrial	210.0	0.8910	62.8	254.2
J-711	<None>	230.0	(N/A)	(N/A)	(N/A)
J-712	<None>	251.0	(N/A)	(N/A)	(N/A)
J-713	Municipal	216.0	0.3750	46.9	249.0
J-714	Municipal	209.0	0.1680	56.8	249.0
J-715	Municipal	209.5	0.0000	56.1	249.0
J-716	Municipal	208.5	0.1680	57.5	249.0
J-717	Municipal	208.0	0.1680	58.2	249.0
J-718	Municipal	204.0	0.1680	63.9	249.0
J-719	Municipal	202.0	0.1680	66.8	249.0
J-720	Municipal	209.5	0.3750	56.1	249.0



BURNSIDE

Official Plan – MDD plus Fire Flow

Official Plan - MDD plus Fire Flow

Scenario Summary

<General>	
Scenario Id	91
Scenario Label	14 - OFFICIAL PLAN - MDD (1.8*ADD)
Scenario Notes	Created: 11/28/06 08:48:16 PM
Calculation Options ID	71
Calculation Options Label	14 - OFFICIAL PLAN - MDD
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Fire Flow

Alternatives	
Active Topology	1930: 2026 and Beyond - with future pumps
Physical	1929: 2026 and Beyond Upgrades
Demand	1916: Official Plan - MDD (1.8*ADD)
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags	
Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Official Plan - MDD plus Fire Flow

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-2	East Hill Pressure Zone	227.0000	190.4885	59.0	J-28	20.0
J-3	East Hill Pressure Zone	227.0000	208.9751	62.3	J-28	20.0
J-4	East Hill Pressure Zone	227.0000	233.5708	68.8	J-28	20.0
J-5	East Hill Pressure Zone	227.0000	207.6299	69.4	J-28	20.0
J-6	East Hill Pressure Zone	227.0000	187.4765	20.0	J-28	20.0
J-7	East Hill Reduced Pressure Zone	227.0000	157.4443	25.3	J-537	20.0
J-8	East Hill Pressure Zone	227.0000	186.3111	20.0	J-28	20.0
J-9	East Hill Pressure Zone	227.0000	139.0968	22.4	J-538	20.0
J-10	East Hill Pressure Zone	227.0000	193.9448	34.1	J-28	20.0
J-11	East Hill Pressure Zone	227.0000	178.3671	43.2	J-28	20.0
J-12	East Hill Pressure Zone	227.0000	151.0337	59.1	J-28	20.0
J-13	East Hill Pressure Zone	227.0000	148.6464	62.4	J-28	20.0
J-14	East Hill Pressure Zone	227.0000	134.8285	20.0	J-28	20.0
J-15	East Hill Pressure Zone	227.0000	109.0336	70.1	J-28	20.0
J-16	East Hill Pressure Zone	227.0000	94.2929	57.8	J-28	20.0
J-17	East Hill Pressure Zone	227.0000	108.8002	58.6	J-28	20.0
J-18	East Hill Pressure Zone	227.0000	110.5825	20.0	J-28	20.0
J-19	East Hill Pressure Zone	227.0000	69.4711	74.3	J-28	20.0
J-20	East Hill Reduced Pressure Zone	227.0000	228.6923	20.0	J-615	20.0
J-21	East Hill Pressure Zone	227.0000	44.3076	20.0	J-28	20.0
J-22	East Hill Pressure Zone	227.0000	43.0312	73.7	J-28	20.0
J-23	East Hill Reduced Pressure Zone	227.0000	168.4767	20.0	J-614	20.0
J-24	East Hill Pressure Zone	227.0000	43.0432	47.8	J-28	20.0
J-25	East Hill Pressure Zone	227.0000	33.8585	41.3	J-28	20.0
J-26	East Hill Pressure Zone	227.0000	31.7345	33.4	J-28	20.0
J-27	East Hill Pressure Zone	227.0000	57.0472	41.8	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-28	East Hill Pressure Zone	227.0000	8.4402	20.0	J-26	20.0
J-29	East Hill Pressure Zone	227.0000	33.8583	65.5	J-28	20.0
J-30	East Hill Reduced Pressure Zone	227.0000	103.9356	23.1	J-31	20.0
J-31	East Hill Reduced Pressure Zone	227.0000	76.4041	20.0	J-537	20.0
J-32	East Hill Reduced Pressure Zone	227.0000	55.9551	22.1	J-33	20.0
J-33	East Hill Reduced Pressure Zone	227.0000	45.2487	20.0	J-442	20.0
J-34	East Hill Reduced Pressure Zone	227.0000	70.1292	22.9	J-33	20.0
J-35	East Hill Reduced Pressure Zone	227.0000	126.9285	20.0	J-33	20.0
J-36	East Hill Reduced Pressure Zone	227.0000	119.6185	23.4	J-559	20.0
J-37	East Hill Reduced Pressure Zone	227.0000	95.8595	22.0	J-456	20.0
J-38	East Hill Reduced Pressure Zone	227.0000	111.6413	20.0	J-456	20.0
J-39	East Hill Reduced Pressure Zone	227.0000	127.9186	20.0	J-471	20.0
J-40	East Hill Reduced Pressure Zone	227.0000	214.2726	20.0	J-47	20.0
J-41	East Hill Reduced Pressure Zone	227.0000	126.2463	20.0	J-31	20.0
J-42	East Hill Reduced Pressure Zone	227.0000	148.5890	20.0	J-47	20.0
J-43	East Hill Reduced Pressure Zone	227.0000	107.5856	20.0	J-44	20.0
J-44	East Hill Reduced Pressure Zone	227.0000	99.4440	20.0	J-537	20.0
J-45	East Hill Reduced Pressure Zone	227.0000	109.2902	20.0	J-44	20.0
J-46	East Hill Reduced Pressure Zone	227.0000	131.2385	20.0	J-47	20.0
J-47	East Hill Reduced Pressure Zone	227.0000	113.9154	20.0	J-537	20.0
J-48	East Hill Reduced Pressure Zone	227.0000	138.2351	20.0	J-47	20.0
J-49	East Hill Reduced Pressure Zone	227.0000	263.9935	20.0	J-466	20.0
J-50	East Hill Reduced Pressure Zone	227.0000	298.4090	20.0	J-464	20.0
J-51	East Hill Reduced Pressure Zone	227.0000	333.7263	20.0	J-53	20.0
J-52	East Hill Reduced Pressure Zone	227.0000	202.0399	20.0	J-537	20.0
J-53	East Hill Reduced Pressure Zone	227.0000	340.7700	20.0	J-537	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-54	East Hill Reduced Pressure Zone	227.0000	138.2751	20.0	J-617	20.0
J-55	East Hill Reduced Pressure Zone	227.0000	106.9129	27.2	J-537	20.0
J-56	East Hill Reduced Pressure Zone	227.0000	149.9451	29.9	J-537	20.0
J-57	East Hill Reduced Pressure Zone	227.0000	107.7989	20.0	J-537	20.0
J-58	East Hill Reduced Pressure Zone	227.0000	92.0872	20.0	J-537	20.0
J-59	East Hill Reduced Pressure Zone	227.0000	67.9532	31.5	J-537	20.0
J-60	East Hill Reduced Pressure Zone	227.0000	108.4665	25.3	J-537	20.0
J-61	Non-Supply	227.0000	0.0000	7.7	J-564	20.0
J-64	Non-Supply	227.0000	0.0000	13.4	J-564	20.0
J-65	Non-Supply	227.0000	0.0000	30.7	J-564	20.0
J-66	Municipal	227.0000	500.0000	32.4	J-654	20.0
J-67	Municipal	227.0000	500.0000	73.1	J-654	20.0
J-68	Municipal	227.0000	101.5940	20.7	J-482	20.0
J-69	Municipal	227.0000	73.0242	22.0	J-545	20.0
J-70	Municipal	227.0000	120.9490	20.0	J-545	20.0
J-71	Municipal	227.0000	147.7657	20.0	J-608	20.0
J-72	Municipal	227.0000	201.5316	20.0	J-73	20.0
J-73	Municipal	227.0000	108.4703	20.0	J-654	20.0
J-74	Municipal	227.0000	249.9155	20.0	J-75	20.0
J-75	Municipal	227.0000	228.2438	20.0	J-79	20.0
J-76	Municipal	227.0000	287.7831	20.0	J-74	20.0
J-77	Municipal	227.0000	217.0642	20.0	J-78	20.0
J-78	Municipal	227.0000	209.2089	20.0	J-91	20.0
J-79	Municipal	227.0000	190.0991	20.0	J-608	20.0
J-80	Municipal	227.0000	130.1253	21.0	J-82	20.0
J-81	Industrial	227.0000	84.3340	48.3	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-82	Municipal	227.0000	75.6600	20.0	J-83	20.0
J-83	Municipal	227.0000	71.4682	20.0	J-82	20.0
J-84	Municipal	227.0000	95.9331	20.0	J-83	20.0
J-85	Municipal	227.0000	107.3314	20.0	J-86	20.0
J-86	Municipal	227.0000	84.6413	20.0	J-85	20.0
J-87	Municipal	227.0000	138.9043	20.0	J-86	20.0
J-89	Municipal	227.0000	181.9576	20.7	J-86	20.0
J-90	Municipal	227.0000	234.4360	20.0	J-86	20.0
J-91	Municipal	227.0000	172.4218	20.0	J-78	20.0
J-92	Municipal	227.0000	191.4129	20.0	J-493	20.0
J-93	Municipal	227.0000	91.3695	21.2	J-493	20.0
J-94	Municipal	227.0000	140.6726	20.0	J-492	20.0
J-95	Municipal	227.0000	500.0000	66.7	J-654	20.0
J-96	Municipal	227.0000	500.0000	77.3	J-654	20.0
J-97	Municipal	227.0000	500.0000	64.8	J-654	20.0
J-98	Municipal	227.0000	176.2450	35.2	J-510	20.0
J-99	Municipal	227.0000	157.1809	20.0	J-510	20.0
J-100	Municipal	227.0000	129.5891	28.3	J-510	20.0
J-101	Municipal	227.0000	122.8985	28.7	J-510	20.0
J-102	Municipal	227.0000	117.1945	31.8	J-510	20.0
J-103	Municipal	227.0000	113.2856	28.5	J-510	20.0
J-104	Municipal	227.0000	449.9866	77.0	J-654	20.0
J-105	Municipal	227.0000	366.3327	77.2	J-400	20.0
J-106	Municipal	227.0000	310.2411	71.5	J-654	20.0
J-107	Municipal	227.0000	232.0603	74.3	J-654	20.0
J-109	East Hill Pressure Zone	227.0000	33.8650	67.6	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-115	Municipal	227.0000	201.6185	74.4	J-654	20.0
J-116	Municipal	227.0000	115.4555	66.4	J-654	20.0
J-117	Municipal	227.0000	113.4794	65.4	J-654	20.0
J-118	Municipal	227.0000	88.8002	25.3	J-654	20.0
J-119	Municipal	227.0000	80.9786	21.3	J-650	20.0
J-120	Municipal	227.0000	105.0471	20.0	J-650	20.0
J-121	Municipal	227.0000	89.1603	20.0	J-650	20.0
J-122	East Hill Pressure Zone	227.0000	96.3819	60.1	J-28	20.0
J-123	East Hill Pressure Zone	227.0000	94.6633	48.2	J-28	20.0
J-124	Municipal	227.0000	111.1828	22.6	J-650	20.0
J-125	Municipal	227.0000	70.5066	20.0	J-418	20.0
J-126	Municipal	227.0000	81.0038	20.0	J-125	20.0
J-127	Municipal	227.0000	109.7523	20.0	J-650	20.0
J-128	Municipal	227.0000	115.0581	26.1	J-654	20.0
J-129	Municipal	227.0000	127.7553	22.4	J-413	20.0
J-130	Municipal	227.0000	84.3390	22.1	J-413	20.0
J-131	Municipal	227.0000	72.8501	23.4	J-413	20.0
J-132	Municipal	227.0000	80.1658	20.0	J-626	20.0
J-133	Municipal	227.0000	93.8993	23.7	J-626	20.0
J-134	Municipal	227.0000	71.5456	29.1	J-626	20.0
J-135	Municipal	227.0000	128.7434	25.6	J-626	20.0
J-136	Municipal	227.0000	146.3303	23.4	J-405	20.0
J-137	Municipal	227.0000	82.3981	20.0	J-406	20.0
J-138	Municipal	227.0000	109.8352	20.0	J-398	20.0
J-139	Municipal	227.0000	60.0371	20.0	J-400	20.0
J-140	Municipal	227.0000	78.3578	25.8	J-400	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-141	Municipal	227.0000	56.9406	30.6	J-400	20.0
J-142	Municipal	227.0000	83.4677	26.0	J-400	20.0
J-143	Municipal	227.0000	101.3415	22.6	J-400	20.0
J-144	Municipal	227.0000	100.3760	23.0	J-400	20.0
J-145	Municipal	227.0000	262.1675	32.6	J-400	20.0
J-146	Municipal	227.0000	120.5837	20.0	J-394	20.0
J-147	Municipal	227.0000	98.8235	20.0	J-401	20.0
J-148	Municipal	227.0000	140.3458	52.9	J-147	20.0
J-149	Municipal	227.0000	329.3889	76.3	J-400	20.0
J-150	Municipal	227.0000	294.4099	40.1	J-354	20.0
J-151	Municipal	227.0000	277.5213	74.3	J-354	20.0
J-152	Municipal	227.0000	188.9669	54.5	J-354	20.0
J-153	Municipal	227.0000	150.7417	56.7	J-354	20.0
J-154	Municipal	227.0000	93.8098	70.7	J-354	20.0
J-155	Municipal	227.0000	78.5781	53.0	J-354	20.0
J-156	Municipal	227.0000	109.5453	70.1	J-354	20.0
J-157	Municipal	227.0000	177.3021	58.9	J-354	20.0
J-158	Municipal	227.0000	164.7806	44.2	J-354	20.0
J-159	Municipal	227.0000	189.8879	63.7	J-354	20.0
J-160	Municipal	227.0000	236.1774	49.6	J-354	20.0
J-161	Municipal	227.0000	237.4662	59.2	J-354	20.0
J-162	Municipal	227.0000	245.6509	70.0	J-354	20.0
J-163	Municipal	227.0000	178.9471	32.3	J-192	20.0
J-164	Municipal	227.0000	142.4879	37.1	J-192	20.0
J-165	Municipal	227.0000	150.2766	33.9	J-169	20.0
J-166	Municipal	227.0000	173.7792	30.5	J-169	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-167	Municipal	227.0000	117.5828	23.6	J-169	20.0
J-168	Municipal	227.0000	96.6378	22.4	J-169	20.0
J-169	Municipal	227.0000	92.0349	20.0	J-377	20.0
J-170	Municipal	227.0000	118.8745	20.0	J-169	20.0
J-171	Municipal	227.0000	145.4374	20.0	J-169	20.0
J-172	Municipal	227.0000	169.5307	36.2	J-197	20.0
J-173	Municipal	227.0000	245.3156	49.5	J-354	20.0
J-176	East Hill Pressure Zone	227.0000	94.4242	48.4	J-28	20.0
J-177	East Hill Pressure Zone	227.0000	91.6457	61.3	J-28	20.0
J-178	Municipal	227.0000	75.5151	70.7	J-354	20.0
J-179	Municipal	227.0000	63.9022	41.1	J-354	20.0
J-180	Municipal	227.0000	20.9851	27.8	J-354	20.0
J-181	Municipal	227.0000	222.0152	35.2	J-354	20.0
J-182	Municipal	227.0000	252.5612	62.0	J-354	20.0
J-183	Municipal	227.0000	255.0646	72.8	J-354	20.0
J-184	Municipal	227.0000	241.1178	68.5	J-354	20.0
J-185	Municipal	227.0000	213.2100	60.8	J-354	20.0
J-186	Municipal	227.0000	211.0043	45.1	J-354	20.0
J-187	Municipal	227.0000	236.1787	32.3	J-354	20.0
J-188	Municipal	227.0000	184.7067	37.4	J-192	20.0
J-189	Municipal	227.0000	138.4903	38.7	J-192	20.0
J-190	Municipal	227.0000	107.2907	28.4	J-664	20.0
J-191	Municipal	227.0000	93.6262	35.5	J-192	20.0
J-192	Municipal	227.0000	62.6683	20.0	J-356	20.0
J-193	Municipal	227.0000	131.2519	35.1	J-202	20.0
J-194	Municipal	227.0000	136.9546	20.0	J-197	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-195	Municipal	227.0000	111.2168	20.0	J-198	20.0
J-196	Municipal	227.0000	101.3899	23.6	J-620	20.0
J-197	Municipal	227.0000	92.0743	20.0	J-620	20.0
J-198	Municipal	227.0000	104.7502	20.0	J-195	20.0
J-199	Municipal	227.0000	89.6762	20.0	J-200	20.0
J-200	Municipal	227.0000	88.8542	20.0	J-201	20.0
J-201	Municipal	227.0000	65.0702	20.1	J-202	20.0
J-202	Municipal	227.0000	61.6608	20.1	J-201	20.0
J-203	Municipal	227.0000	79.5988	28.0	J-202	20.0
J-204	Municipal	227.0000	75.4362	30.8	J-202	20.0
J-205	Municipal	227.0000	72.9649	35.3	J-202	20.0
J-206	Municipal	227.0000	65.8241	20.0	J-202	20.0
J-208	Municipal	227.0000	72.5559	29.9	J-202	20.0
J-209	Municipal	227.0000	70.1414	31.9	J-202	20.0
J-210	Municipal	227.0000	68.2303	21.9	J-202	20.0
J-211	Municipal	227.0000	72.5372	33.9	J-202	20.0
J-212	Municipal	227.0000	72.5854	35.5	J-202	20.0
J-213	Municipal	227.0000	72.5812	32.0	J-202	20.0
J-214	Municipal	227.0000	71.6748	30.0	J-202	20.0
J-215	Municipal	227.0000	71.9946	20.1	J-202	20.0
J-216	Municipal	227.0000	72.3909	24.6	J-202	20.0
J-217	Municipal	227.0000	65.4952	20.0	J-654	20.0
J-219	Municipal	227.0000	67.9786	22.1	J-220	20.0
J-220	Municipal	227.0000	67.9505	20.0	J-435	20.0
J-223	Spring	227.0000	272.8051	22.7	J-235	20.0
J-224	Spring	227.0000	245.3984	25.0	J-235	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-225	Spring	227.0000	206.5457	26.8	J-235	20.0
J-226	Spring	227.0000	166.9940	29.3	J-235	20.0
J-227	Spring	227.0000	157.3066	27.7	J-235	20.0
J-228	Spring	227.0000	87.9168	20.0	J-439	20.0
J-229	Spring	227.0000	152.3584	26.8	J-235	20.0
J-230	Spring	227.0000	148.4472	27.9	J-235	20.0
J-231	Spring	227.0000	101.3724	20.0	J-705	20.0
J-232	Spring	227.0000	138.8957	27.2	J-235	20.0
J-233	Spring	227.0000	139.5474	29.4	J-235	20.0
J-234	Spring	227.0000	107.0565	24.6	J-235	20.0
J-235	Spring	227.0000	63.0205	20.0	J-478	20.0
J-236	Spring	227.0000	138.7305	30.4	J-478	20.0
J-237	Spring	227.0000	135.3769	31.4	J-478	20.0
J-238	Spring	227.0000	128.6404	28.8	J-478	20.0
J-239	Spring	227.0000	120.5418	24.0	J-478	20.0
J-240	Spring	227.0000	94.2655	20.0	J-528	20.0
J-241	Spring	227.0000	133.2659	30.8	J-478	20.0
J-242	Spring	227.0000	123.2012	29.1	J-478	20.0
J-243	Spring	227.0000	89.5591	31.5	J-478	20.0
J-244	Spring	227.0000	83.2886	29.6	J-478	20.0
J-245	Spring	227.0000	133.0380	28.2	J-282	20.0
J-246	Spring	227.0000	142.0529	28.2	J-478	20.0
J-247	Spring	227.0000	140.1196	33.7	J-478	20.0
J-248	Spring	227.0000	138.5159	34.7	J-478	20.0
J-249	Spring	227.0000	92.1582	20.0	J-478	20.0
J-250	Spring	227.0000	139.4876	21.6	J-480	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-251	Spring	227.0000	153.2162	31.1	J-478	20.0
J-252	Spring	227.0000	151.8341	31.5	J-478	20.0
J-253	Spring	227.0000	151.0734	20.0	J-438	20.0
J-254	Spring	227.0000	144.2366	20.0	J-478	20.0
J-255	Spring	227.0000	196.1942	20.0	J-478	20.0
J-256	Spring	227.0000	228.3143	27.2	J-478	20.0
J-257	Spring	227.0000	199.2494	20.0	J-591	20.0
J-258	Spring	227.0000	385.8813	33.1	J-688	20.0
J-259	Spring	227.0000	159.2749	20.0	J-688	20.0
J-260	Spring	227.0000	197.7299	25.8	J-261	20.0
J-261	Spring	227.0000	147.4473	20.0	J-601	20.0
J-262	Spring	227.0000	154.0893	22.1	J-601	20.0
J-263	Spring	227.0000	92.3967	28.7	J-282	20.0
J-264	Spring	227.0000	100.9409	30.5	J-432	20.0
J-265	Spring	227.0000	86.2573	21.2	J-282	20.0
J-267	Spring	227.0000	74.7711	20.0	J-282	20.0
J-268	Spring	227.0000	66.7131	20.0	J-282	20.0
J-269	Spring	227.0000	75.5471	23.7	J-282	20.0
J-270	Spring	227.0000	80.9376	26.9	J-282	20.0
J-271	Spring	227.0000	64.2104	26.0	J-390	20.0
J-272	Spring	227.0000	69.9967	27.1	J-282	20.0
J-273	Spring	227.0000	72.3029	27.5	J-282	20.0
J-274	Spring	227.0000	73.9415	26.1	J-282	20.0
J-275	Spring	227.0000	56.8105	27.0	J-386	20.0
J-276	Spring	227.0000	57.3883	28.7	J-282	20.0
J-277	Spring	227.0000	62.2800	28.4	J-282	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-278	Spring	227.0000	64.5206	27.8	J-282	20.0
J-279	Spring	227.0000	65.7039	26.3	J-282	20.0
J-280	Spring	227.0000	60.0671	28.2	J-282	20.0
J-281	Spring	227.0000	62.7055	28.3	J-282	20.0
J-282	Spring	227.0000	44.7891	20.1	J-283	20.0
J-283	Spring	227.0000	48.6839	23.3	J-282	20.0
J-284	Spring	227.0000	55.6492	28.7	J-282	20.0
J-285	Spring	227.0000	54.1248	22.1	J-282	20.0
J-286	Spring	227.0000	59.0847	28.8	J-282	20.0
J-287	Spring	227.0000	62.3285	28.1	J-282	20.0
J-288	Spring	227.0000	63.7219	27.0	J-282	20.0
J-289	Spring	227.0000	65.1048	24.3	J-282	20.0
J-291	Industrial	227.0000	90.0056	98.6	J-595	20.0
J-292	Industrial	227.0000	88.5645	98.6	J-595	20.0
J-293	Industrial	227.0000	89.0836	80.5	J-595	20.0
J-294	Industrial	227.0000	87.1233	65.9	J-595	20.0
J-295	Industrial	227.0000	86.2343	61.2	J-595	20.0
J-296	Industrial	227.0000	85.4042	55.2	J-595	20.0
J-297	Industrial	227.0000	87.1327	55.1	J-595	20.0
J-298	Industrial	227.0000	86.0714	60.8	J-595	20.0
J-299	Industrial	227.0000	85.7775	60.1	J-595	20.0
J-300	Industrial	227.0000	85.7951	61.0	J-595	20.0
J-301	Industrial	227.0000	85.2274	60.4	J-595	20.0
J-302	Industrial	227.0000	84.2907	58.4	J-595	20.0
J-303	Industrial	227.0000	85.3407	55.2	J-595	20.0
J-304	Industrial	227.0000	85.6510	47.2	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-305	Industrial	227.0000	84.7910	52.1	J-595	20.0
J-306	Industrial	227.0000	84.3308	44.3	J-595	20.0
J-307	Industrial	227.0000	84.0956	53.7	J-595	20.0
J-308	Industrial	227.0000	84.0475	44.8	J-595	20.0
J-309	Industrial	227.0000	82.1886	57.4	J-595	20.0
J-310	Industrial	227.0000	83.2157	56.7	J-595	20.0
J-311	Industrial	227.0000	82.0362	54.1	J-595	20.0
J-312	Industrial	227.0000	82.2257	52.6	J-595	20.0
J-313	Industrial	227.0000	82.2164	50.0	J-595	20.0
J-314	Industrial	227.0000	81.0525	51.3	J-595	20.0
J-315	Industrial	227.0000	84.1559	45.2	J-595	20.0
J-316	Industrial	227.0000	84.3177	48.2	J-595	20.0
J-317	Industrial	227.0000	84.2513	42.5	J-595	20.0
J-318	Industrial	227.0000	82.2056	31.7	J-481	20.0
J-319	Industrial	227.0000	80.3961	29.5	J-677	20.0
J-320	Industrial	227.0000	68.6227	30.2	J-677	20.0
J-321	Industrial	227.0000	70.9677	29.6	J-481	20.0
J-322	Industrial	227.0000	64.6558	29.6	J-481	20.0
J-323	Industrial	227.0000	76.4615	30.1	J-481	20.0
J-324	Industrial	227.0000	77.7892	32.6	J-481	20.0
J-325	Industrial	227.0000	84.2509	26.7	J-595	20.0
J-326	Municipal	227.0000	127.0002	64.3	J-654	20.0
J-327	Municipal	227.0000	187.2809	55.2	J-626	20.0
J-328	Municipal	227.0000	500.0000	80.1	J-654	20.0
J-329	Municipal	227.0000	437.1815	22.8	J-331	20.0
J-330	Municipal	227.0000	383.1944	22.8	J-331	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-331	Municipal	227.0000	329.2401	20.0	J-496	20.0
J-332	Municipal	227.0000	217.1729	20.0	J-496	20.0
J-333	Spring	227.0000	181.2637	20.0	J-478	20.0
J-334	Spring	227.0000	195.6948	20.0	J-437	20.0
J-335	East Hill Pressure Zone	227.0000	222.7205	63.3	J-28	20.0
J-336	East Hill Pressure Zone	227.0000	187.6796	20.0	J-28	20.0
J-337	East Hill Pressure Zone	227.0000	152.0665	51.2	J-28	20.0
J-338	East Hill Pressure Zone	227.0000	145.6005	69.0	J-28	20.0
J-339	Industrial	227.0000	82.6142	20.1	J-595	20.0
J-340	Industrial	227.0000	84.2010	45.9	J-595	20.0
J-341	Municipal	227.0000	96.3644	20.0	J-433	20.0
J-342	Municipal	227.0000	116.7242	20.0	J-138	20.0
J-343	Municipal	227.0000	142.7031	53.6	J-147	20.0
J-344	Municipal	227.0000	133.3398	43.7	J-147	20.0
J-345	Municipal	227.0000	131.4092	24.9	J-348	20.0
J-346	Municipal	227.0000	134.8137	30.5	J-147	20.0
J-347	Municipal	227.0000	93.7795	20.0	J-400	20.0
J-348	Municipal	227.0000	94.8578	20.0	J-402	20.0
J-349	Municipal	227.0000	112.7519	26.3	J-348	20.0
J-351	Municipal	227.0000	20.8630	20.0	J-354	20.0
J-353	Municipal	227.0000	19.8219	20.1	J-354	20.0
J-354	Municipal	227.0000	19.4637	20.1	J-353	20.0
J-355	Municipal	227.0000	20.4984	26.3	J-354	20.0
J-356	Municipal	227.0000	55.1517	20.0	J-192	20.0
J-357	Municipal	227.0000	44.8392	20.0	J-358	20.0
J-358	Municipal	227.0000	39.4230	20.1	J-357	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-359	Municipal	227.0000	79.8956	22.9	J-360	20.0
J-360	Municipal	227.0000	59.3317	20.0	J-361	20.0
J-361	Municipal	227.0000	48.7834	20.1	J-362	20.0
J-362	Municipal	227.0000	48.8081	22.5	J-361	20.0
J-363	Municipal	227.0000	56.3046	20.0	J-364	20.0
J-364	Municipal	227.0000	47.2417	20.0	J-354	20.0
J-366	Municipal	227.0000	73.0836	71.5	J-354	20.0
J-367	Municipal	227.0000	73.0828	20.6	J-354	20.0
J-368	Municipal	227.0000	69.4599	71.6	J-354	20.0
J-369	Municipal	227.0000	67.3939	50.5	J-354	20.0
J-370	Municipal	227.0000	67.3776	36.1	J-354	20.0
J-371	Municipal	227.0000	22.4132	30.0	J-354	20.0
J-372	Municipal	227.0000	42.7804	33.5	J-354	20.0
J-373	Municipal	227.0000	42.7645	20.7	J-354	20.0
J-374	Municipal	227.0000	42.7853	25.3	J-354	20.0
J-375	Municipal	227.0000	42.7860	21.9	J-354	20.0
J-376	Municipal	227.0000	42.7860	22.0	J-354	20.0
J-377	Municipal	227.0000	88.7364	20.0	J-378	20.0
J-378	Municipal	227.0000	63.2164	20.0	J-654	20.0
J-381	Municipal	227.0000	76.9391	31.4	J-202	20.0
J-382	Municipal	227.0000	78.3792	28.0	J-202	20.0
J-383	Municipal	227.0000	82.1145	20.1	J-654	20.0
J-384	Municipal	227.0000	129.4434	20.0	J-385	20.0
J-385	Municipal	227.0000	85.6928	20.0	J-400	20.0
J-386	Spring	227.0000	35.2025	20.1	J-478	20.0
J-387	Spring	227.0000	57.9125	26.4	J-388	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-388	Spring	227.0000	42.2872	20.0	J-478	20.0
J-389	Spring	227.0000	60.8916	20.0	J-390	20.0
J-390	Spring	227.0000	48.4698	20.0	J-389	20.0
J-391	Spring	227.0000	42.8031	20.0	J-478	20.0
J-392	Municipal	227.0000	100.1475	20.0	J-394	20.0
J-393	Municipal	227.0000	68.3413	20.0	J-394	20.0
J-394	Municipal	227.0000	83.6001	20.0	J-393	20.0
J-395	Municipal	227.0000	176.9238	20.0	J-396	20.0
J-396	Municipal	227.0000	79.2619	20.0	J-400	20.0
J-397	Municipal	227.0000	81.3168	20.0	J-139	20.0
J-398	Municipal	227.0000	87.9488	20.0	J-405	20.0
J-400	Municipal	227.0000	33.5222	20.0	J-404	20.0
J-401	Municipal	227.0000	89.5504	20.0	J-402	20.0
J-402	Municipal	227.0000	87.7139	20.0	J-401	20.0
J-403	Municipal	227.0000	50.3837	27.8	J-400	20.0
J-404	Municipal	227.0000	32.9840	20.0	J-400	20.0
J-405	Municipal	227.0000	50.4666	20.0	J-626	20.0
J-406	Municipal	227.0000	92.1970	20.0	J-408	20.0
J-407	Municipal	227.0000	57.9902	20.0	J-408	20.0
J-408	Municipal	227.0000	63.4823	20.0	J-407	20.0
J-409	Municipal	227.0000	82.7186	24.6	J-626	20.0
J-410	Municipal	227.0000	85.5159	20.0	J-626	20.0
J-411	Municipal	227.0000	29.1067	21.4	J-413	20.0
J-412	Municipal	227.0000	29.1066	22.4	J-413	20.0
J-413	Municipal	227.0000	29.0742	20.0	J-411	20.0
J-414	Municipal	227.0000	120.5908	24.4	J-654	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-415	Municipal	227.0000	117.1497	25.4	J-654	20.0
J-416	Municipal	227.0000	111.1853	20.4	J-650	20.0
J-417	Municipal	227.0000	109.9836	21.2	J-650	20.0
J-418	Municipal	227.0000	78.7111	20.0	J-125	20.0
J-419	Municipal	227.0000	104.3491	21.2	J-650	20.0
J-420	Municipal	227.0000	105.5167	21.1	J-650	20.0
J-421	Municipal	227.0000	105.2536	20.0	J-422	20.0
J-422	Municipal	227.0000	41.2782	20.0	J-654	20.0
J-423	Municipal	227.0000	114.8674	27.3	J-654	20.0
J-424	Municipal	227.0000	114.8198	34.4	J-654	20.0
J-425	Spring	227.0000	151.3148	20.0	J-478	20.0
J-426	Municipal	227.0000	104.2930	56.3	J-654	20.0
J-428	Spring	227.0000	159.9594	24.8	J-235	20.0
J-429	Spring	227.0000	99.8517	20.0	J-430	20.0
J-430	Spring	227.0000	50.5871	20.1	J-478	20.0
J-431	Spring	227.0000	57.4588	20.1	J-478	20.0
J-432	Spring	227.0000	46.2351	20.0	J-478	20.0
J-433	Municipal	227.0000	95.6921	20.0	J-434	20.0
J-434	Municipal	227.0000	73.2480	20.0	J-405	20.0
J-435	Municipal	227.0000	64.6397	20.0	J-220	20.0
J-436	Municipal	227.0000	77.4096	20.0	J-654	20.0
J-437	Spring	227.0000	52.4293	20.1	J-478	20.0
J-438	Spring	227.0000	38.4671	20.1	J-478	20.0
J-439	Spring	227.0000	62.4618	20.0	J-235	20.0
J-440	Spring	227.0000	231.1986	25.9	J-235	20.0
J-441	Spring	227.0000	57.6828	20.0	J-478	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-442	East Hill Reduced Pressure Zone	227.0000	32.8934	20.1	J-443	20.0
J-443	East Hill Reduced Pressure Zone	227.0000	31.4467	20.1	J-442	20.0
J-444	East Hill Reduced Pressure Zone	227.0000	46.2774	20.7	J-448	20.0
J-445	East Hill Reduced Pressure Zone	227.0000	41.8792	20.0	J-446	20.0
J-446	East Hill Reduced Pressure Zone	227.0000	37.0299	20.1	J-445	20.0
J-447	East Hill Reduced Pressure Zone	227.0000	37.0185	20.1	J-448	20.0
J-448	East Hill Reduced Pressure Zone	227.0000	36.3278	20.1	J-447	20.0
J-449	East Hill Reduced Pressure Zone	227.0000	82.2268	20.0	J-450	20.0
J-450	East Hill Reduced Pressure Zone	227.0000	60.5311	20.0	J-537	20.0
J-451	East Hill Reduced Pressure Zone	227.0000	63.9853	21.1	J-33	20.0
J-452	East Hill Reduced Pressure Zone	227.0000	62.4866	20.0	J-33	20.0
J-453	East Hill Reduced Pressure Zone	227.0000	96.0631	20.0	J-454	20.0
J-454	East Hill Reduced Pressure Zone	227.0000	64.1301	20.0	J-455	20.0
J-455	East Hill Reduced Pressure Zone	227.0000	61.1569	20.0	J-454	20.0
J-456	East Hill Reduced Pressure Zone	227.0000	63.1956	20.0	J-457	20.0
J-457	East Hill Reduced Pressure Zone	227.0000	79.6356	20.0	J-456	20.0
J-458	East Hill Reduced Pressure Zone	227.0000	91.1032	20.0	J-460	20.0
J-459	East Hill Reduced Pressure Zone	227.0000	58.6507	20.0	J-460	20.0
J-460	East Hill Reduced Pressure Zone	227.0000	60.1943	20.0	J-459	20.0
J-461	East Hill Reduced Pressure Zone	227.0000	57.2158	20.0	J-460	20.0
J-462	East Hill Reduced Pressure Zone	227.0000	149.2295	20.0	J-463	20.0
J-463	East Hill Reduced Pressure Zone	227.0000	58.4257	20.0	J-537	20.0
J-464	East Hill Reduced Pressure Zone	227.0000	89.1383	20.0	J-465	20.0
J-465	East Hill Reduced Pressure Zone	227.0000	56.8729	20.0	J-537	20.0
J-466	East Hill Reduced Pressure Zone	227.0000	84.7923	20.0	J-467	20.0
J-467	East Hill Reduced Pressure Zone	227.0000	59.1820	20.0	J-537	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-468	East Hill Reduced Pressure Zone	227.0000	230.4531	20.0	J-47	20.0
J-469	East Hill Reduced Pressure Zone	227.0000	114.7959	20.0	J-470	20.0
J-470	East Hill Reduced Pressure Zone	227.0000	107.4828	20.0	J-469	20.0
J-471	East Hill Reduced Pressure Zone	227.0000	120.3258	20.0	J-531	20.0
J-472	East Hill Reduced Pressure Zone	227.0000	83.1236	20.0	J-473	20.0
J-473	East Hill Reduced Pressure Zone	227.0000	67.7404	20.0	J-474	20.0
J-474	East Hill Reduced Pressure Zone	227.0000	58.7768	20.0	J-537	20.0
J-475	East Hill Reduced Pressure Zone	227.0000	77.4609	20.0	J-537	20.0
J-477	Spring	227.0000	92.1104	20.0	J-478	20.0
J-478	Spring	227.0000	75.4701	20.0	J-479	20.0
J-479	Spring	227.0000	58.7709	20.0	J-478	20.0
J-480	Spring	227.0000	67.1377	20.0	J-478	20.0
J-481	Industrial	227.0000	58.8772	20.1	J-595	20.0
J-482	Municipal	227.0000	50.3496	20.0	J-68	20.0
J-483	Municipal	227.0000	259.7785	20.0	J-654	20.0
J-484	Municipal	227.0000	437.2413	20.0	J-654	20.0
J-485	Municipal	227.0000	334.5315	20.0	J-486	20.0
J-486	Municipal	227.0000	158.3051	20.0	J-654	20.0
J-487	Municipal	227.0000	311.7645	20.0	J-654	20.0
J-490	Municipal	227.0000	151.3087	20.0	J-654	20.0
J-491	Municipal	227.0000	90.4073	20.7	J-492	20.0
J-492	Municipal	227.0000	61.1806	20.0	J-491	20.0
J-493	Municipal	227.0000	68.3335	20.0	J-93	20.0
J-495	Municipal	227.0000	159.4257	22.1	J-496	20.0
J-496	Municipal	227.0000	120.0063	20.0	J-682	20.0
J-497	Municipal	227.0000	189.4351	20.0	J-498	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-498	Municipal	227.0000	127.1384	20.0	J-654	20.0
J-499	Municipal	227.0000	190.7653	20.0	J-501	20.0
J-500	Municipal	227.0000	94.0445	20.0	J-501	20.0
J-501	Municipal	227.0000	107.9645	20.0	J-500	20.0
J-502	Municipal	227.0000	112.1818	24.1	J-505	20.0
J-503	Municipal	227.0000	115.2832	22.9	J-505	20.0
J-504	Municipal	227.0000	108.4117	26.4	J-505	20.0
J-505	Municipal	227.0000	90.4679	20.0	J-510	20.0
J-506	Municipal	227.0000	111.3545	23.0	J-510	20.0
J-507	Municipal	227.0000	111.3876	30.3	J-510	20.0
J-508	Municipal	227.0000	109.8963	21.5	J-510	20.0
J-509	Municipal	227.0000	112.4691	20.0	J-713	20.0
J-510	Municipal	227.0000	103.2945	20.0	J-713	20.0
J-511	Industrial	227.0000	85.9933	61.3	J-595	20.0
J-512	Industrial	227.0000	82.0684	21.2	J-595	20.0
J-514	Industrial	227.0000	81.8792	52.7	J-595	20.0
J-515	Municipal	227.0000	114.7959	24.6	J-654	20.0
J-516	Municipal	227.0000	110.5595	20.0	J-654	20.0
J-517	Municipal	227.0000	114.8496	25.9	J-654	20.0
J-518	Municipal	227.0000	96.9912	20.0	J-654	20.0
J-520	Municipal	227.0000	112.6054	22.7	J-650	20.0
J-521	Municipal	227.0000	85.3600	20.0	J-654	20.0
J-525	Municipal	227.0000	311.3287	20.0	J-400	20.0
J-526	Municipal	227.0000	320.2901	74.2	J-400	20.0
J-527	Spring	227.0000	91.3302	20.0	J-528	20.0
J-528	Spring	227.0000	68.2583	20.0	J-478	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-529	Municipal	227.0000	108.4375	63.1	J-354	20.0
J-530	Municipal	227.0000	106.2494	20.1	J-354	20.0
J-531	East Hill Reduced Pressure Zone	227.0000	111.0272	20.0	J-537	20.0
J-532	East Hill Reduced Pressure Zone	227.0000	105.5234	20.0	J-533	20.0
J-533	East Hill Reduced Pressure Zone	227.0000	102.6431	20.0	J-532	20.0
J-534	Municipal	227.0000	101.0014	20.1	J-400	20.0
J-535	East Hill Pressure Zone	227.0000	104.0968	20.0	J-536	20.0
J-536	East Hill Pressure Zone	227.0000	87.1971	20.0	J-28	20.0
J-537	East Hill Reduced Pressure Zone	227.0000	31.6949	20.0	J-59	20.0
J-538	East Hill Pressure Zone	227.0000	120.4466	20.0	J-28	20.0
J-539	Municipal	227.0000	269.4852	72.8	J-354	20.0
J-540	Municipal	227.0000	189.5996	20.0	J-436	20.0
J-542	Spring	227.0000	158.4242	20.0	J-662	20.0
J-543	Spring	227.0000	227.5893	26.3	J-261	20.0
J-544	Municipal	227.0000	34.4661	20.0	J-545	20.0
J-545	Municipal	227.0000	50.4054	20.0	J-546	20.0
J-546	Municipal	227.0000	39.7100	20.0	J-545	20.0
J-547	Industrial	227.0000	84.2591	41.8	J-595	20.0
J-548	Industrial	227.0000	84.2579	44.9	J-595	20.0
J-549	Industrial	227.0000	84.2306	30.7	J-595	20.0
J-550	Industrial	227.0000	77.1651	20.1	J-595	20.0
J-552	Industrial	227.0000	84.7606	53.0	J-595	20.0
J-553	Industrial	227.0000	84.6496	49.9	J-595	20.0
J-554	Municipal	227.0000	182.2331	20.0	J-654	20.0
J-555	Municipal	227.0000	26.0362	20.0	J-654	20.0
J-556	Municipal	227.0000	36.5159	25.0	J-557	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-557	Municipal	227.0000	33.7697	20.0	J-556	20.0
J-558	Industrial	227.0000	86.6611	59.3	J-595	20.0
J-559	East Hill Reduced Pressure Zone	227.0000	47.8838	20.0	J-537	20.0
J-560	Municipal	227.0000	86.6267	25.3	J-654	20.0
J-561	Municipal	227.0000	77.4228	20.0	J-654	20.0
J-562	Industrial	227.0000	82.3130	49.5	J-595	20.0
J-563	Industrial	227.0000	84.1190	45.1	J-595	20.0
J-564	Non-Supply	227.0000	0.0000	2.3	J-669	20.0
J-565	Industrial	227.0000	95.7357	114.8	J-595	20.0
J-566	Industrial	227.0000	95.7295	114.8	J-595	20.0
J-567	Industrial	227.0000	95.6914	114.8	J-595	20.0
J-568	Industrial	227.0000	95.5947	114.7	J-595	20.0
J-569	Industrial	227.0000	92.4792	113.6	J-595	20.0
J-570	Industrial	227.0000	92.2381	113.5	J-595	20.0
J-571	Industrial	227.0000	95.5946	114.7	J-595	20.0
J-572	Industrial	227.0000	92.3061	113.5	J-595	20.0
J-573	Municipal	227.0000	500.0000	68.7	J-654	20.0
J-574	Municipal	227.0000	500.0000	68.8	J-654	20.0
J-575	Municipal	227.0000	500.0000	69.2	J-654	20.0
J-576	Municipal	227.0000	500.0000	69.3	J-654	20.0
J-578	Municipal	227.0000	500.0000	65.1	J-654	20.0
J-579	Non-Supply	227.0000	0.0000	6.5	J-564	20.0
J-580	Non-Supply	227.0000	0.0000	6.5	J-564	20.0
J-581	East Hill Pressure Zone	227.0000	264.5882	67.4	J-28	20.0
J-582	East Hill Pressure Zone	227.0000	265.2968	67.2	J-28	20.0
J-583	East Hill Pressure Zone	227.0000	133.6109	58.7	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-584	East Hill Pressure Zone	227.0000	129.5911	58.8	J-28	20.0
J-585	Industrial	227.0000	79.4794	49.5	J-595	20.0
J-586	Industrial	227.0000	82.9980	52.0	J-595	20.0
J-587	Industrial	227.0000	83.6445	51.3	J-595	20.0
J-588	Industrial	227.0000	83.1771	52.6	J-595	20.0
J-589	Industrial	227.0000	83.2123	52.4	J-595	20.0
J-590	Industrial	227.0000	83.7122	45.0	J-595	20.0
J-591	Spring	227.0000	172.2246	20.0	J-478	20.0
J-592	Spring	227.0000	159.7927	20.0	J-593	20.0
J-593	Spring	227.0000	141.6223	20.0	J-478	20.0
J-594	Municipal	227.0000	500.0000	73.8	J-654	20.0
J-595	Industrial	227.0000	70.9652	20.0	J-707	20.0
J-596	Industrial	227.0000	75.4381	40.3	J-595	20.0
J-597	East Hill Pressure Zone	227.0000	107.4439	70.2	J-28	20.0
J-599	East Hill Pressure Zone	227.0000	157.0597	49.5	J-28	20.0
J-600	East Hill Pressure Zone	227.0000	136.6554	57.5	J-28	20.0
J-601	Spring	227.0000	114.2655	20.0	J-478	20.0
J-602	Municipal	227.0000	104.2777	44.1	J-654	20.0
J-603	Spring	227.0000	72.5745	24.5	J-282	20.0
J-604	Spring	227.0000	51.3615	20.0	J-282	20.0
J-605	Spring	227.0000	187.3201	27.4	J-235	20.0
J-606	Spring	227.0000	57.0598	20.1	J-478	20.0
J-607	Municipal	227.0000	169.2210	20.0	J-654	20.0
J-608	Municipal	227.0000	119.3348	20.0	J-71	20.0
J-609	Municipal	227.0000	119.8251	20.0	J-682	20.0
J-610	Industrial	227.0000	84.0659	44.8	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-611	Industrial	227.0000	83.9401	44.6	J-595	20.0
J-612	Municipal	227.0000	152.4418	20.1	J-682	20.0
J-613	Municipal	227.0000	139.8828	20.0	J-682	20.0
J-614	East Hill Reduced Pressure Zone	227.0000	71.8551	20.0	J-537	20.0
J-615	East Hill Reduced Pressure Zone	227.0000	175.3199	20.0	J-616	20.0
J-616	East Hill Reduced Pressure Zone	227.0000	76.5806	20.0	J-537	20.0
J-617	East Hill Reduced Pressure Zone	227.0000	94.3301	20.0	J-537	20.0
J-618	East Hill Reduced Pressure Zone	227.0000	87.3066	25.5	J-537	20.0
J-620	Municipal	227.0000	90.9461	20.0	J-197	20.0
J-621	Municipal	227.0000	48.0606	20.1	J-623	20.0
J-622	Municipal	227.0000	70.2184	24.3	J-621	20.0
J-623	Municipal	227.0000	48.3333	20.1	J-621	20.0
J-624	Municipal	227.0000	71.0833	24.3	J-623	20.0
J-626	Municipal	227.0000	43.9072	20.1	J-405	20.0
J-627	Municipal	227.0000	221.1675	26.0	J-354	20.0
J-628	Municipal	227.0000	171.1125	37.3	J-354	20.0
J-630	Municipal	227.0000	181.8450	20.0	J-405	20.0
J-631	Spring	227.0000	84.3476	27.7	J-432	20.0
J-632	Municipal	227.0000	191.3914	57.0	J-626	20.0
J-633	Municipal	227.0000	118.4786	67.5	J-654	20.0
J-634	Municipal	227.0000	123.9278	63.4	J-654	20.0
J-635	Municipal	227.0000	448.9444	76.9	J-654	20.0
J-639	Industrial	227.0000	83.6868	31.0	J-595	20.0
J-640	Municipal	227.0000	436.8946	72.0	J-654	20.0
J-641	Industrial	227.0000	83.8642	46.0	J-595	20.0
J-642	Industrial	227.0000	83.9031	35.0	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-643	Industrial	227.0000	83.8503	45.4	J-595	20.0
J-644	Municipal	227.0000	500.0000	78.0	J-654	20.0
J-645	Industrial	227.0000	83.8009	45.9	J-595	20.0
J-646	Industrial	227.0000	83.7125	45.7	J-595	20.0
J-647	Municipal	227.0000	64.0187	20.0	J-654	20.0
J-648	Municipal	227.0000	50.4719	20.0	J-650	20.0
J-649	Municipal	227.0000	41.6772	20.0	J-650	20.0
J-650	Municipal	227.0000	39.8057	20.0	J-648	20.0
J-651	Municipal	227.0000	51.6532	20.0	J-652	20.0
J-652	Municipal	227.0000	42.0149	20.0	J-651	20.0
J-653	Municipal	227.0000	39.8987	20.0	J-651	20.0
J-654	Municipal	227.0000	66.0562	20.0	J-217	20.0
J-658	Municipal	227.0000	73.7725	20.6	J-654	20.0
J-659	Municipal	227.0000	104.2747	69.5	J-654	20.0
J-661	Municipal	227.0000	500.0000	77.4	J-654	20.0
J-662	Spring	227.0000	143.0670	20.0	J-688	20.0
J-663	Municipal	227.0000	286.6693	20.0	J-647	20.0
J-664	Municipal	227.0000	75.8306	20.0	J-654	20.0
J-665	Municipal	227.0000	98.2479	20.0	J-400	20.0
J-666	Municipal	227.0000	104.8000	20.1	J-400	20.0
J-667	Municipal	227.0000	101.2890	20.0	J-400	20.0
J-668	Municipal	227.0000	218.1003	53.4	J-354	20.0
J-669	Non-Supply	227.0000	0.0000	3.6	J-564	20.0
J-670	Non-Supply	227.0000	0.0000	7.9	J-564	20.0
J-671	East Hill Pressure Zone	227.0000	241.0781	67.7	J-28	20.0
J-672	East Hill Pressure Zone	227.0000	264.4946	67.5	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-673	Industrial	227.0000	92.2368	102.8	J-595	20.0
J-674	Spring	227.0000	41.1616	20.1	J-478	20.0
J-675	Industrial	227.0000	62.7008	27.8	J-677	20.0
J-676	Industrial	227.0000	64.4126	29.9	J-677	20.0
J-677	Industrial	227.0000	60.3884	20.0	J-595	20.0
J-678	Industrial	227.0000	62.7091	27.1	J-677	20.0
J-679	Municipal	227.0000	114.8619	28.1	J-654	20.0
J-680	Municipal	227.0000	115.9213	26.3	J-654	20.0
J-681	Municipal	227.0000	74.8765	20.0	J-654	20.0
J-682	Municipal	227.0000	125.0413	20.0	J-609	20.0
J-683	Municipal	227.0000	102.2914	21.4	J-650	20.0
J-684	East Hill Pressure Zone	227.0000	70.7669	70.5	J-28	20.0
J-685	East Hill Pressure Zone	227.0000	87.4830	60.1	J-28	20.0
J-687	Spring	227.0000	110.4554	20.0	J-688	20.0
J-688	Spring	227.0000	129.5788	20.0	J-687	20.0
J-689	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-690	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-691	Industrial	227.0000	87.6865	90.8	J-595	20.0
J-692	Industrial	227.0000	87.1626	58.3	J-595	20.0
J-693	Industrial	227.0000	85.8570	48.4	J-595	20.0
J-694	Industrial	227.0000	85.1333	26.3	J-595	20.0
J-695	East Hill Pressure Zone	227.0000	70.7756	55.0	J-28	20.0
J-696	East Hill Pressure Zone	227.0000	70.7522	53.7	J-28	20.0
J-697	East Hill Pressure Zone	227.0000	63.4878	60.1	J-28	20.0
J-698	Industrial	227.0000	88.5564	95.0	J-595	20.0
J-699	Industrial	227.0000	87.6809	77.6	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-700	Municipal	227.0000	174.0915	20.0	J-654	20.0
J-701	Industrial	227.0000	88.7823	79.5	J-595	20.0
J-702	Spring	227.0000	171.2581	29.1	J-235	20.0
J-703	Spring	227.0000	76.3147	20.0	J-478	20.0
J-704	Spring	227.0000	57.2993	20.0	J-705	20.0
J-705	Spring	227.0000	49.7139	20.0	J-704	20.0
J-706	Industrial	227.0000	84.1034	33.0	J-595	20.0
J-707	Industrial	227.0000	84.1014	27.2	J-595	20.0
J-708	Industrial	227.0000	84.0737	30.1	J-595	20.0
J-709	East Hill Pressure Zone	227.0000	77.0908	50.5	J-28	20.0
J-710	Industrial	227.0000	86.4069	67.0	J-595	20.0
J-711	<None>	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-712	<None>	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-713	Municipal	227.0000	107.3325	20.0	J-510	20.0
J-714	Municipal	227.0000	111.3720	24.9	J-510	20.0
J-715	Municipal	227.0000	111.5953	23.5	J-510	20.0
J-716	Municipal	227.0000	111.6416	24.0	J-510	20.0
J-717	Municipal	227.0000	83.3116	20.0	J-713	20.0
J-718	Municipal	227.0000	112.0410	31.4	J-510	20.0
J-719	Municipal	227.0000	113.0665	33.6	J-510	20.0
J-720	Municipal	227.0000	111.2335	22.7	J-713	20.0



BURNSIDE

Appendix D3

Ultimate Plan WaterCAD Output



BURNSIDE

Ultimate Plan – Average Day Demand (ADD)

Ultimate Plan - Average Day Demand (ADD)

Scenario Summary

<General>

Scenario Id	93
Scenario Label	16 - ULTIMATE - ADD
Scenario Notes	Created: 11/29/06 08:48:35 AM
Calculation Options ID	73
Calculation Options Label	16 - ULTIMATE - ADD
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives

Active Topology	1945: 2026 and Beyond - with future pumps and storage
Physical	1929: 2026 and Beyond Upgrades
Demand	1912: Ultimate - ADD
Initial Settings	1931: Ultimate - with future pumps on
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags

Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Ultimate Plan - Average Day Demand (ADD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	1.3567	69.9	296.1
J-3	East Hill Pressure Zone	245.7	0.9144	71.8	296.3
J-4	East Hill Pressure Zone	243.8	1.1211	74.7	296.4
J-5	East Hill Pressure Zone	242.2	1.2533	76.8	296.3
J-6	East Hill Pressure Zone	238.3	1.1062	82.3	296.3
J-7	East Hill Reduced Pressure Zone	225.4	0.9293	45.8	257.7
J-8	East Hill Pressure Zone	243.6	0.0000	74.8	296.3
J-9	East Hill Pressure Zone	238.3	0.0885	82.2	296.2
J-10	East Hill Pressure Zone	227.6	0.3389	97.3	296.2
J-11	East Hill Pressure Zone	229.9	0.3687	93.8	296.0
J-12	East Hill Pressure Zone	234.1	0.6192	87.4	295.7
J-13	East Hill Pressure Zone	235.8	0.4721	85.0	295.7
J-14	East Hill Pressure Zone	243.2	0.0000	74.5	295.7
J-15	East Hill Pressure Zone	229.0	0.0000	93.1	294.6
J-16	East Hill Pressure Zone	240.0	2.4192	76.4	293.9
J-17	East Hill Pressure Zone	243.0	0.4410	73.4	294.7
J-18	East Hill Pressure Zone	229.0	0.0000	95.5	296.3
J-19	East Hill Pressure Zone	234.8	0.2067	85.2	294.8
J-20	East Hill Reduced Pressure Zone	226.2	0.6928	45.0	257.9
J-21	East Hill Pressure Zone	247.0	0.5606	67.9	294.8
J-22	East Hill Pressure Zone	234.6	4.0264	83.0	293.1
J-23	East Hill Reduced Pressure Zone	227.7	0.7822	43.1	258.1
J-24	East Hill Pressure Zone	246.0	1.5784	66.8	293.1
J-25	East Hill Pressure Zone	258.2	0.9880	49.0	292.7
J-26	East Hill Pressure Zone	264.3	0.3986	40.2	292.6
J-27	East Hill Pressure Zone	255.1	0.0000	52.5	292.1
J-28	East Hill Pressure Zone	273.5	0.8379	27.1	292.6
J-29	East Hill Pressure Zone	234.6	0.4870	82.5	292.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	0.6490	47.5	257.5
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	43.7	257.5
J-32	East Hill Reduced Pressure Zone	216.7	1.7404	57.8	257.4
J-33	East Hill Reduced Pressure Zone	218.1	2.3009	55.7	257.4
J-34	East Hill Reduced Pressure Zone	216.3	0.5019	58.4	257.4
J-35	East Hill Reduced Pressure Zone	216.7	1.3716	58.0	257.6
J-36	East Hill Reduced Pressure Zone	217.6	0.6490	56.7	257.6
J-37	East Hill Reduced Pressure Zone	214.6	1.1798	61.0	257.6
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	61.7	257.6
J-39	East Hill Reduced Pressure Zone	214.4	1.9620	61.4	257.7
J-40	East Hill Reduced Pressure Zone	217.2	0.9293	57.5	257.7
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	58.6	257.6
J-42	East Hill Reduced Pressure Zone	217.1	0.7077	57.6	257.7
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	56.2	257.6
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	50.6	257.6
J-45	East Hill Reduced Pressure Zone	223.0	0.1620	49.2	257.7
J-46	East Hill Reduced Pressure Zone	219.2	0.1620	54.6	257.7
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	45.8	257.8
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	45.6	257.8
J-49	East Hill Reduced Pressure Zone	217.8	0.9293	56.7	257.7
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	56.7	257.8
J-51	East Hill Reduced Pressure Zone	220.0	1.2832	53.6	257.8
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	44.3	257.8
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	43.2	257.8
J-54	East Hill Reduced Pressure Zone	216.7	0.6928	58.2	257.7
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	59.3	257.7
J-56	East Hill Reduced Pressure Zone	214.8	0.3101	60.9	257.7
J-57	East Hill Reduced Pressure Zone	211.3	0.2803	65.8	257.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.2803	61.2	257.7
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	48.1	257.7
J-60	East Hill Reduced Pressure Zone	221.3	0.9293	51.7	257.7
J-61	Non-Supply	242.2	0.0000	7.8	247.7
J-64	Non-Supply	238.3	0.0000	14.0	248.2
J-65	Non-Supply	226.6	0.0000	33.4	250.1
J-66	Municipal	213.8	1.1620	56.5	253.6
J-67	Municipal	183.6	0.0000	103.9	256.8
J-68	Municipal	215.8	0.1748	53.5	253.5
J-69	Municipal	216.1	0.5000	55.6	255.2
J-70	Municipal	215.7	0.4882	56.8	255.7
J-71	Municipal	215.8	0.3428	56.3	255.5
J-72	Municipal	213.7	0.3733	59.3	255.5
J-73	Municipal	210.7	0.1748	64.1	255.8
J-74	Municipal	211.3	0.3674	64.2	256.5
J-75	Municipal	213.6	0.3550	60.5	256.2
J-76	Municipal	211.3	0.0000	64.7	256.9
J-77	Municipal	211.7	0.1267	64.2	256.9
J-78	Municipal	213.1	0.4577	62.2	256.9
J-79	Municipal	214.3	0.4695	59.4	256.1
J-80	Municipal	215.6	0.4813	57.3	256.0
J-81	Industrial	217.1	0.2959	80.5	273.8
J-82	Municipal	217.1	0.3497	55.3	256.1
J-83	Municipal	217.7	0.0000	54.7	256.2
J-84	Municipal	216.7	0.1380	56.3	256.3
J-85	Municipal	216.6	0.0000	57.7	257.2
J-86	Municipal	217.6	0.0000	56.4	257.3
J-87	Municipal	214.6	0.9449	60.9	257.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.2770	59.5	257.5
J-90	Municipal	216.3	0.3909	58.6	257.6
J-91	Municipal	215.8	0.2770	58.4	256.9
J-92	Municipal	214.2	0.3733	61.5	257.5
J-93	Municipal	214.2	0.3850	61.1	257.2
J-94	Municipal	213.3	0.2230	62.9	257.6
J-95	Municipal	180.6	0.6385	108.8	257.2
J-96	Municipal	180.6	0.0000	108.8	257.2
J-97	Municipal	188.7	0.0000	101.1	259.9
J-98	Municipal	190.2	0.0000	98.2	259.4
J-99	Municipal	187.7	0.4332	101.8	259.4
J-100	Municipal	202.4	0.4492	80.3	258.9
J-101	Municipal	204.0	0.0000	77.8	258.8
J-102	Municipal	201.4	0.2112	81.4	258.7
J-103	Municipal	205.6	0.2992	75.3	258.7
J-104	Municipal	180.2	0.0000	108.6	256.7
J-105	Municipal	179.8	0.0000	109.2	256.7
J-106	Municipal	184.1	0.0000	103.1	256.7
J-107	Municipal	182.6	0.0000	105.2	256.7
J-109	East Hill Pressure Zone	226.7	0.0000	93.7	292.7
J-115	Municipal	182.6	0.0000	105.2	256.7
J-116	Municipal	188.2	0.0000	97.2	256.7
J-117	Municipal	189.0	0.0363	96.1	256.7
J-118	Municipal	217.2	0.3497	56.0	256.7
J-119	Municipal	218.6	0.0000	54.1	256.7
J-120	Municipal	217.2	0.2407	56.0	256.7
J-121	Municipal	217.4	0.5235	55.8	256.7
J-122	East Hill Pressure Zone	238.0	0.0000	79.4	294.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	2.3009	76.5	293.9
J-124	Municipal	217.0	0.2947	56.3	256.7
J-125	Municipal	217.0	0.1925	56.3	256.7
J-126	Municipal	216.6	0.1503	56.9	256.7
J-127	Municipal	216.1	0.4391	57.6	256.7
J-128	Municipal	215.3	0.0000	58.7	256.7
J-129	Municipal	212.6	0.0304	62.6	256.7
J-130	Municipal	213.1	0.1562	61.9	256.7
J-131	Municipal	213.6	0.4037	61.1	256.7
J-132	Municipal	213.8	0.5658	60.8	256.7
J-133	Municipal	211.7	0.3369	63.8	256.7
J-134	Municipal	213.6	0.5000	61.1	256.7
J-135	Municipal	211.6	0.0658	64.0	256.7
J-136	Municipal	210.8	0.1925	65.1	256.7
J-137	Municipal	211.4	0.4577	64.3	256.7
J-138	Municipal	211.2	2.1315	64.5	256.7
J-139	Municipal	214.7	0.6267	59.6	256.7
J-140	Municipal	211.8	0.3310	63.7	256.7
J-141	Municipal	212.6	0.0000	62.5	256.7
J-142	Municipal	210.7	0.3792	65.2	256.7
J-143	Municipal	209.8	0.6561	66.5	256.7
J-144	Municipal	211.2	0.3369	64.5	256.7
J-145	Municipal	209.7	0.8487	66.7	256.7
J-146	Municipal	210.2	1.0962	66.0	256.7
J-147	Municipal	209.0	1.1925	67.6	256.7
J-148	Municipal	181.6	0.0000	106.5	256.7
J-149	Municipal	180.4	0.0000	108.3	256.7
J-150	Municipal	177.7	0.0000	112.1	256.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.1925	111.1	256.7
J-152	Municipal	178.7	0.0000	110.7	256.7
J-153	Municipal	179.6	0.0000	109.4	256.7
J-154	Municipal	178.9	0.1326	110.4	256.7
J-155	Municipal	190.6	1.3850	93.8	256.7
J-156	Municipal	179.4	0.2112	109.7	256.7
J-157	Municipal	178.6	0.2112	110.8	256.7
J-158	Municipal	186.2	0.3733	100.0	256.7
J-159	Municipal	179.6	0.2770	109.4	256.7
J-160	Municipal	187.8	1.3673	97.8	256.7
J-161	Municipal	184.1	0.0000	103.0	256.7
J-162	Municipal	178.3	0.0000	111.3	256.7
J-163	Municipal	187.1	0.0000	98.7	256.6
J-164	Municipal	189.6	1.2583	95.2	256.6
J-165	Municipal	189.8	0.1444	94.9	256.6
J-166	Municipal	189.4	0.0963	95.5	256.6
J-167	Municipal	196.8	0.1807	84.9	256.6
J-168	Municipal	199.6	0.0000	81.0	256.6
J-169	Municipal	204.1	0.0000	74.6	256.6
J-170	Municipal	202.2	0.2947	77.3	256.6
J-171	Municipal	194.7	0.1139	87.9	256.6
J-172	Municipal	190.1	0.1444	94.5	256.6
J-173	Municipal	187.7	0.0000	97.9	256.7
J-176	East Hill Pressure Zone	240.0	0.0000	76.4	293.9
J-177	East Hill Pressure Zone	239.0	2.3009	77.7	293.8
J-178	Municipal	180.6	0.0000	108.0	256.7
J-179	Municipal	202.2	0.0000	77.3	256.7
J-180	Municipal	211.5	0.0000	64.1	256.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	111.1	256.7
J-182	Municipal	178.1	0.0000	111.6	256.7
J-183	Municipal	178.1	0.0000	111.6	256.7
J-184	Municipal	178.7	0.0000	110.7	256.7
J-185	Municipal	182.1	0.0000	105.9	256.7
J-186	Municipal	187.8	0.0000	97.8	256.7
J-187	Municipal	195.4	0.0000	87.0	256.7
J-188	Municipal	187.3	0.0000	98.5	256.7
J-189	Municipal	188.2	0.0000	97.2	256.6
J-190	Municipal	190.1	0.0000	94.5	256.6
J-191	Municipal	191.7	0.0000	92.2	256.6
J-192	Municipal	202.6	0.0000	76.7	256.6
J-193	Municipal	185.3	0.3978	101.3	256.6
J-194	Municipal	200.0	0.0000	80.4	256.6
J-195	Municipal	201.6	0.6267	78.1	256.6
J-196	Municipal	202.6	0.7946	76.7	256.6
J-197	Municipal	205.1	0.0000	73.1	256.6
J-198	Municipal	200.6	0.0000	79.5	256.6
J-199	Municipal	199.2	0.2770	81.5	256.6
J-200	Municipal	201.6	0.5599	78.1	256.6
J-201	Municipal	203.9	0.0000	74.8	256.6
J-202	Municipal	204.2	0.0000	74.4	256.6
J-203	Municipal	186.6	0.0481	99.4	256.6
J-204	Municipal	186.1	0.3791	100.1	256.6
J-205	Municipal	182.1	0.2112	105.8	256.6
J-206	Municipal	178.8	0.0000	110.4	256.6
J-208	Municipal	188.1	0.1139	97.2	256.6
J-209	Municipal	188.3	0.0000	97.0	256.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	84.9	256.6
J-211	Municipal	185.2	0.0000	101.4	256.6
J-212	Municipal	183.8	0.3674	103.3	256.6
J-213	Municipal	182.7	0.0000	104.9	256.6
J-214	Municipal	185.6	0.0000	100.8	256.6
J-215	Municipal	186.8	0.1631	99.1	256.6
J-216	Municipal	186.1	0.3556	100.1	256.6
J-217	Municipal	220.4	0.0540	51.5	256.7
J-219	Municipal	218.5	0.0000	54.2	256.7
J-220	Municipal	220.5	0.0000	51.4	256.7
J-223	Spring	188.2	0.0000	58.2	229.2
J-224	Spring	187.3	0.0000	59.5	229.2
J-225	Spring	186.7	0.3428	60.4	229.2
J-226	Spring	185.9	0.5844	61.5	229.2
J-227	Spring	186.1	0.2652	61.2	229.2
J-228	Spring	186.6	0.3733	60.5	229.2
J-229	Spring	186.6	0.5776	60.5	229.2
J-230	Spring	187.4	0.2407	59.4	229.2
J-231	Spring	189.6	0.4096	56.3	229.2
J-232	Spring	186.1	0.5776	61.2	229.2
J-233	Spring	186.4	0.4391	60.8	229.2
J-234	Spring	188.7	0.3792	57.5	229.2
J-235	Spring	194.3	0.0000	49.6	229.2
J-236	Spring	184.1	0.3733	64.1	229.2
J-237	Spring	185.6	0.2999	62.0	229.2
J-238	Spring	187.2	0.3791	59.7	229.2
J-239	Spring	190.1	0.2407	55.6	229.2
J-240	Spring	182.1	0.3674	67.0	229.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	0.3850	66.3	229.3
J-242	Spring	183.6	0.3133	64.9	229.3
J-243	Spring	185.7	0.6748	61.9	229.3
J-244	Spring	187.9	0.3133	58.7	229.3
J-245	Spring	180.1	0.0000	69.9	229.3
J-246	Spring	180.2	0.3791	69.8	229.4
J-247	Spring	181.2	0.7783	68.4	229.4
J-248	Spring	182.2	0.0422	67.1	229.4
J-249	Spring	185.6	0.3497	62.1	229.4
J-250	Spring	179.9	0.0000	70.5	229.6
J-251	Spring	181.6	0.0000	68.1	229.6
J-252	Spring	183.6	1.0903	65.3	229.6
J-253	Spring	180.1	0.0845	70.6	229.8
J-254	Spring	183.9	0.4577	65.2	229.8
J-255	Spring	178.2	0.4155	74.1	230.4
J-256	Spring	184.1	0.5844	65.4	230.2
J-257	Spring	188.3	0.5599	59.3	230.1
J-258	Spring	182.8	0.2770	67.7	230.5
J-259	Spring	190.6	0.2171	56.5	230.4
J-260	Spring	183.8	0.6866	66.2	230.4
J-261	Spring	190.1	0.0000	57.3	230.4
J-262	Spring	180.6	0.0481	70.8	230.4
J-263	Spring	179.8	0.2043	70.1	229.2
J-264	Spring	182.6	0.5000	66.2	229.2
J-265	Spring	181.8	0.0000	67.2	229.1
J-267	Spring	182.6	0.2524	66.0	229.1
J-268	Spring	184.6	0.1208	63.1	229.1
J-269	Spring	181.3	1.8181	67.8	229.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.2043	69.1	229.1
J-271	Spring	180.8	0.5363	68.5	229.0
J-272	Spring	179.8	0.8192	69.9	229.1
J-273	Spring	179.6	0.0000	70.2	229.1
J-274	Spring	178.8	1.3486	71.4	229.1
J-275	Spring	180.1	0.2829	69.5	229.0
J-276	Spring	179.8	0.2947	69.9	229.0
J-277	Spring	179.1	0.2524	70.9	229.0
J-278	Spring	178.8	1.4989	71.3	229.0
J-279	Spring	177.9	0.0000	72.6	229.0
J-280	Spring	179.5	0.0000	70.3	229.0
J-281	Spring	178.8	0.0000	71.3	229.0
J-282	Spring	186.1	0.3850	60.9	229.0
J-283	Spring	182.6	1.0058	65.9	229.0
J-284	Spring	179.4	0.4096	70.4	229.0
J-285	Spring	179.2	0.2289	70.7	229.0
J-286	Spring	178.9	0.0000	71.2	229.0
J-287	Spring	178.6	0.0000	71.6	229.0
J-288	Spring	178.4	0.6807	71.9	229.0
J-289	Spring	177.9	0.0000	72.6	229.0
J-291	Industrial	189.3	0.0000	120.4	274.1
J-292	Industrial	183.5	6.4193	127.8	273.5
J-293	Industrial	201.7	5.0370	102.7	274.0
J-294	Industrial	211.4	0.0000	88.8	273.9
J-295	Industrial	214.4	7.5960	84.4	273.9
J-296	Industrial	218.6	1.5856	78.4	273.8
J-297	Industrial	214.4	2.8970	84.5	273.9
J-298	Industrial	214.2	0.6210	84.7	273.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	1.5856	83.9	273.9
J-300	Industrial	213.8	1.0109	85.3	273.9
J-301	Industrial	214.6	0.0000	84.1	273.9
J-302	Industrial	214.8	10.7531	83.8	273.8
J-303	Industrial	218.6	0.0000	78.4	273.8
J-304	Industrial	222.8	9.8343	72.2	273.6
J-305	Industrial	220.7	0.0000	75.4	273.8
J-306	Industrial	226.2	3.4020	67.6	273.8
J-307	Industrial	219.6	1.2560	77.0	273.8
J-308	Industrial	225.8	0.0000	68.2	273.8
J-309	Industrial	216.7	4.1589	81.1	273.8
J-310	Industrial	217.1	0.1380	80.5	273.8
J-311	Industrial	218.2	0.3109	78.9	273.8
J-312	Industrial	218.0	1.8529	79.2	273.8
J-313	Industrial	220.3	0.0000	76.0	273.8
J-314	Industrial	221.3	0.3250	74.5	273.8
J-315	Industrial	218.7	0.3109	78.2	273.8
J-316	Industrial	217.1	0.2499	80.5	273.8
J-317	Industrial	218.7	0.1210	78.2	273.8
J-318	Industrial	220.4	0.0000	75.8	273.8
J-319	Industrial	219.4	0.2499	77.2	273.8
J-320	Industrial	219.8	0.1819	76.6	273.8
J-321	Industrial	222.4	0.1819	73.0	273.8
J-322	Industrial	224.3	0.1819	70.3	273.8
J-323	Industrial	221.4	0.1210	74.4	273.8
J-324	Industrial	220.6	0.1210	75.5	273.8
J-325	Industrial	226.6	0.1210	67.0	273.8
J-326	Municipal	189.3	0.0000	95.7	256.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	102.3	256.7
J-328	Municipal	178.4	0.0000	113.4	258.3
J-329	Municipal	211.7	0.0000	66.0	258.2
J-330	Municipal	211.8	0.2490	65.8	258.2
J-331	Municipal	214.6	0.0000	61.8	258.1
J-332	Municipal	213.4	0.0000	63.5	258.1
J-333	Spring	178.7	0.0000	73.0	230.2
J-334	Spring	178.2	0.0000	74.2	230.4
J-335	East Hill Pressure Zone	245.9	0.0000	71.7	296.4
J-336	East Hill Pressure Zone	240.2	0.0000	79.5	296.2
J-337	East Hill Pressure Zone	250.6	0.0000	64.0	295.7
J-338	East Hill Pressure Zone	236.0	0.0000	84.6	295.6
J-339	Industrial	219.6	0.0000	76.9	273.8
J-340	Industrial	218.2	0.0000	78.9	273.8
J-341	Municipal	210.6	0.0000	65.4	256.7
J-342	Municipal	211.1	0.0000	64.7	256.7
J-343	Municipal	181.1	0.0000	107.3	256.7
J-344	Municipal	187.5	0.0000	98.2	256.7
J-345	Municipal	189.1	0.0000	95.9	256.7
J-346	Municipal	188.1	0.0000	97.3	256.7
J-347	Municipal	209.6	0.0000	66.8	256.7
J-348	Municipal	206.3	0.0000	71.5	256.7
J-349	Municipal	189.2	0.0000	95.8	256.7
J-351	Municipal	209.5	0.0000	66.9	256.7
J-353	Municipal	216.5	0.0000	57.0	256.7
J-354	Municipal	217.0	0.0000	56.3	256.7
J-355	Municipal	212.0	0.0000	63.4	256.7
J-356	Municipal	200.0	0.0000	80.4	256.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	80.4	256.6
J-358	Municipal	200.0	0.0000	80.4	256.6
J-359	Municipal	200.0	0.0000	80.4	256.7
J-360	Municipal	202.0	0.0000	77.6	256.7
J-361	Municipal	201.0	0.0000	79.0	256.7
J-362	Municipal	199.0	0.0000	81.9	256.7
J-363	Municipal	205.5	0.0000	72.6	256.7
J-364	Municipal	205.0	0.0000	73.3	256.7
J-366	Municipal	180.0	0.0000	108.8	256.7
J-367	Municipal	185.0	0.0000	101.7	256.7
J-368	Municipal	180.0	0.0000	108.8	256.7
J-369	Municipal	195.0	0.0000	87.5	256.7
J-370	Municipal	195.0	0.0000	87.5	256.7
J-371	Municipal	210.0	0.0000	66.2	256.7
J-372	Municipal	207.5	0.0000	69.8	256.7
J-373	Municipal	200.0	0.0000	80.4	256.7
J-374	Municipal	208.0	0.0000	69.1	256.7
J-375	Municipal	208.0	0.0000	69.1	256.7
J-376	Municipal	205.0	0.0000	73.3	256.7
J-377	Municipal	203.5	0.0000	75.4	256.6
J-378	Municipal	203.5	0.0000	75.4	256.6
J-381	Municipal	180.0	0.0000	108.7	256.6
J-382	Municipal	180.0	0.0000	108.7	256.6
J-383	Municipal	178.0	0.0000	111.6	256.6
J-384	Municipal	185.0	0.0000	101.7	256.7
J-385	Municipal	185.0	0.0000	101.7	256.7
J-386	Spring	185.0	0.0000	62.5	229.0
J-387	Spring	180.5	0.0000	68.9	229.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	62.5	229.0
J-389	Spring	185.0	0.0000	62.5	229.0
J-390	Spring	185.0	0.0000	62.5	229.0
J-391	Spring	185.0	0.0000	62.5	229.0
J-392	Municipal	210.0	0.0000	66.2	256.7
J-393	Municipal	206.0	0.0000	71.9	256.7
J-394	Municipal	210.0	0.0000	66.2	256.7
J-395	Municipal	209.8	0.0000	66.6	256.7
J-396	Municipal	206.0	0.0000	72.0	256.7
J-397	Municipal	213.0	0.0000	62.0	256.7
J-398	Municipal	214.0	0.0000	60.6	256.7
J-400	Municipal	220.0	0.0000	52.0	256.7
J-401	Municipal	207.5	0.0000	69.8	256.7
J-402	Municipal	207.5	0.0000	69.8	256.7
J-403	Municipal	214.5	0.0000	59.8	256.7
J-404	Municipal	216.0	0.0000	57.7	256.7
J-405	Municipal	220.0	0.0000	52.0	256.7
J-406	Municipal	210.5	0.0000	65.5	256.7
J-407	Municipal	205.0	0.0000	73.4	256.7
J-408	Municipal	210.0	0.0000	66.3	256.7
J-409	Municipal	212.5	0.0000	62.7	256.7
J-410	Municipal	212.0	0.0000	63.4	256.7
J-411	Municipal	215.0	0.0000	59.2	256.7
J-412	Municipal	214.3	0.0000	60.1	256.7
J-413	Municipal	216.0	0.0000	57.7	256.7
J-414	Municipal	214.5	0.0000	59.9	256.7
J-415	Municipal	213.1	0.0000	61.9	256.7
J-416	Municipal	218.0	0.0000	54.9	256.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	54.9	256.7
J-418	Municipal	218.0	0.0000	54.9	256.7
J-419	Municipal	218.0	0.0904	54.9	256.7
J-420	Municipal	218.0	0.0000	54.9	256.7
J-421	Municipal	216.0	0.0000	57.7	256.7
J-422	Municipal	216.0	0.0000	57.7	256.7
J-423	Municipal	215.0	0.0000	59.2	256.7
J-424	Municipal	210.0	0.0000	66.3	256.7
J-425	Spring	186.0	0.0000	61.4	229.2
J-426	Municipal	181.5	0.0000	106.7	256.7
J-428	Spring	186.0	0.0000	61.4	229.2
J-429	Spring	185.0	0.0000	62.8	229.2
J-430	Spring	185.0	0.0000	62.8	229.2
J-431	Spring	185.0	0.0000	62.8	229.2
J-432	Spring	190.0	0.0000	55.7	229.2
J-433	Municipal	208.0	0.0000	69.1	256.7
J-434	Municipal	206.0	0.0000	71.9	256.7
J-435	Municipal	219.5	0.0000	52.8	256.7
J-436	Municipal	178.0	0.0000	111.7	256.7
J-437	Spring	178.0	1.4840	74.4	230.4
J-438	Spring	178.0	1.8220	73.4	229.7
J-439	Spring	185.0	0.0000	62.8	229.2
J-440	Spring	187.0	0.0000	59.9	229.2
J-441	Spring	185.0	0.0000	62.8	229.2
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	58.0	257.4
J-443	East Hill Reduced Pressure Zone	216.0	0.0160	58.7	257.4
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	58.8	257.4
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	58.1	257.4
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	58.1	257.4
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	57.5	257.5
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	57.5	257.5
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	56.7	257.4
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	56.7	257.4
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	58.3	257.6
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	59.0	257.6
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	59.0	257.6
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	60.5	257.6
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	56.4	257.7
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.8
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	64.9	257.8
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	63.9	257.7
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	56.4	257.7
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	60.6	257.7
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	62.1	257.7
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	62.4	257.7
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	55.0	257.7
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	57.8	257.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	60.6	257.7
J-475	East Hill Reduced Pressure Zone	194.0	0.0149	72.9	245.3
J-477	Spring	185.0	0.0000	62.9	229.3
J-478	Spring	195.0	0.0000	48.7	229.3
J-479	Spring	192.0	0.0000	52.9	229.3
J-480	Spring	181.0	0.0000	69.0	229.6
J-481	Industrial	231.0	0.0000	60.8	273.8
J-482	Municipal	216.3	0.0000	52.8	253.5
J-483	Municipal	180.0	0.0000	109.9	257.5
J-484	Municipal	179.0	0.0000	111.4	257.5
J-485	Municipal	178.0	0.0000	113.8	258.2
J-486	Municipal	178.0	0.0000	113.8	258.2
J-487	Municipal	179.0	0.0000	112.7	258.4
J-490	Municipal	178.5	0.0000	111.8	257.2
J-491	Municipal	212.5	0.0000	63.5	257.3
J-492	Municipal	213.0	0.0000	62.8	257.3
J-493	Municipal	215.0	0.0000	60.0	257.2
J-495	Municipal	213.0	0.0000	64.2	258.2
J-496	Municipal	214.5	0.0000	62.1	258.2
J-497	Municipal	180.0	1.6820	112.1	258.9
J-498	Municipal	180.0	0.7430	112.1	258.9
J-499	Municipal	180.0	0.0000	112.2	259.0
J-500	Municipal	180.0	0.0000	112.2	259.0
J-501	Municipal	180.0	0.0000	112.2	259.0
J-502	Municipal	207.0	0.0180	73.4	258.7
J-503	Municipal	206.7	0.0440	73.8	258.7
J-504	Municipal	207.5	0.0000	72.6	258.7
J-505	Municipal	212.0	0.0000	66.3	258.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	71.3	258.7
J-507	Municipal	205.5	0.0000	75.5	258.7
J-508	Municipal	213.0	0.0000	64.8	258.6
J-509	Municipal	215.0	0.1900	61.8	258.5
J-510	Municipal	215.5	0.0000	61.2	258.6
J-511	Industrial	213.5	0.0000	85.8	273.9
J-512	Industrial	218.0	0.0000	79.2	273.8
J-514	Industrial	220.0	0.0000	76.4	273.8
J-515	Municipal	214.0	0.0000	60.6	256.7
J-516	Municipal	214.0	0.0000	60.6	256.7
J-517	Municipal	216.0	0.0000	57.8	256.7
J-518	Municipal	216.0	0.0000	57.8	256.7
J-520	Municipal	217.0	0.0000	56.3	256.7
J-521	Municipal	217.0	0.0000	56.3	256.7
J-525	Municipal	178.8	0.0000	110.6	256.7
J-526	Municipal	179.6	0.0000	109.5	256.7
J-527	Spring	182.0	0.0000	67.1	229.3
J-528	Spring	182.0	0.0000	67.1	229.3
J-529	Municipal	179.0	0.0000	110.2	256.7
J-530	Municipal	179.0	0.0000	110.2	256.7
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	63.2	257.7
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	66.3	257.7
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	64.9	257.7
J-534	Municipal	178.0	0.0000	111.7	256.7
J-535	East Hill Pressure Zone	230.0	0.0000	94.1	296.3
J-536	East Hill Pressure Zone	228.4	0.0000	96.3	296.3
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	36.6	257.7
J-538	East Hill Pressure Zone	240.0	0.0000	79.8	296.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	110.3	256.7
J-540	Municipal	178.0	0.0000	111.7	256.7
J-542	Spring	190.5	0.0000	56.7	230.4
J-543	Spring	184.0	0.0000	66.0	230.5
J-544	Municipal	217.0	0.4740	54.3	255.2
J-545	Municipal	217.5	0.0000	53.6	255.2
J-546	Municipal	217.5	0.0000	53.6	255.2
J-547	Industrial	219.0	0.0000	77.8	273.8
J-548	Industrial	219.0	0.1850	77.8	273.8
J-549	Industrial	219.5	0.0000	77.1	273.8
J-550	Industrial	217.0	0.4779	80.6	273.8
J-552	Industrial	217.5	0.0000	80.0	273.9
J-553	Industrial	218.0	0.0000	79.3	273.8
J-554	Municipal	212.0	0.0000	65.5	258.2
J-555	Municipal	178.0	1.0589	115.3	259.3
J-556	Municipal	179.5	0.0000	113.3	259.3
J-557	Municipal	183.0	0.0000	108.3	259.3
J-558	Industrial	215.0	0.0000	83.7	274.0
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	53.3	257.6
J-560	Municipal	217.2	0.0000	56.0	256.7
J-561	Municipal	185.0	0.0000	101.8	256.7
J-562	Industrial	220.3	0.0000	76.0	273.8
J-563	Industrial	218.7	0.3020	78.2	273.8
J-564	Non-Supply	246.0	0.0000	2.3	247.6
J-565	Industrial	179.5	0.0000	161.3	293.1
J-566	Industrial	179.5	0.0000	161.3	293.1
J-567	Industrial	179.5	0.0000	161.3	293.1
J-568	Industrial	179.5	0.0000	161.3	293.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	134.8	274.4
J-570	Industrial	179.5	0.0000	134.7	274.4
J-571	Industrial	179.5	0.0000	161.3	293.1
J-572	Industrial	179.5	0.0000	134.7	274.4
J-573	Municipal	185.5	0.0000	106.0	260.2
J-574	Municipal	185.5	0.0000	106.0	260.2
J-575	Municipal	185.5	0.0000	106.0	260.2
J-576	Municipal	185.5	0.0000	105.8	260.0
J-578	Municipal	188.5	0.0000	101.5	260.0
J-579	Non-Supply	243.0	0.0000	6.4	247.5
J-580	Non-Supply	243.0	0.0000	6.3	247.5
J-581	East Hill Pressure Zone	243.0	0.0000	77.0	297.3
J-582	East Hill Pressure Zone	243.0	0.0000	77.0	297.3
J-583	East Hill Pressure Zone	243.5	0.0000	73.6	295.3
J-584	East Hill Pressure Zone	243.3	0.7940	73.8	295.2
J-585	Industrial	222.5	0.0000	72.8	273.8
J-586	Industrial	220.6	0.0000	75.6	273.8
J-587	Industrial	221.0	0.0000	75.0	273.8
J-588	Industrial	220.1	0.0000	76.3	273.8
J-589	Industrial	220.4	0.0000	75.9	273.8
J-590	Industrial	224.6	0.0000	70.0	273.8
J-591	Spring	188.3	0.0000	59.2	230.0
J-592	Spring	188.3	0.0000	59.0	229.9
J-593	Spring	188.3	0.0000	59.0	229.9
J-594	Municipal	182.8	0.0000	105.0	256.8
J-595	Industrial	243.3	0.0000	43.4	273.8
J-596	Industrial	229.0	1.7000	63.6	273.8
J-597	East Hill Pressure Zone	229.0	0.0000	93.0	294.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	2.4680	62.2	295.8
J-600	East Hill Pressure Zone	244.5	0.0000	72.2	295.4
J-601	Spring	188.7	0.0000	59.3	230.4
J-602	Municipal	181.5	0.0000	106.7	256.7
J-603	Spring	179.2	0.0000	70.8	229.1
J-604	Spring	179.2	0.0000	70.8	229.1
J-605	Spring	186.7	0.0000	60.4	229.2
J-606	Spring	186.7	0.0000	60.4	229.2
J-607	Municipal	212.1	0.0260	65.3	258.1
J-608	Municipal	215.1	0.0000	57.8	255.8
J-609	Municipal	214.4	0.0590	62.4	258.4
J-610	Industrial	225.8	0.0000	68.2	273.8
J-611	Industrial	225.8	0.0000	68.2	273.8
J-612	Municipal	213.0	0.0000	64.2	258.3
J-613	Municipal	213.0	0.1990	64.2	258.3
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	45.5	258.1
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	44.0	258.0
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	45.4	258.0
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	46.4	257.7
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	53.5	257.7
J-620	Municipal	205.1	0.0000	73.1	256.6
J-621	Municipal	219.5	0.0000	52.8	256.7
J-622	Municipal	216.5	0.0000	57.0	256.7
J-623	Municipal	219.5	0.0000	52.8	256.7
J-624	Municipal	216.5	0.0000	57.0	256.7
J-626	Municipal	220.0	0.0000	52.0	256.7
J-627	Municipal	178.4	0.0000	111.1	256.7
J-628	Municipal	186.2	0.0000	100.0	256.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	105.2	256.7
J-631	Spring	184.6	0.0000	63.3	229.2
J-632	Municipal	183.6	0.0000	103.8	256.7
J-633	Municipal	187.3	0.0000	98.5	256.7
J-634	Municipal	190.0	0.0000	94.7	256.7
J-635	Municipal	180.1	0.0000	108.8	256.7
J-639	Industrial	229.0	0.7270	63.6	273.8
J-640	Municipal	182.1	0.0260	105.9	256.7
J-641	Industrial	224.6	0.0000	70.0	273.8
J-642	Industrial	224.6	0.0000	70.0	273.8
J-643	Industrial	224.6	0.0000	70.0	273.8
J-644	Municipal	180.0	0.0000	110.0	257.5
J-645	Industrial	224.6	0.0000	70.0	273.8
J-646	Industrial	224.6	0.0000	70.0	273.8
J-647	Municipal	213.0	0.0000	57.6	253.6
J-648	Municipal	219.5	0.0246	52.8	256.7
J-649	Municipal	218.0	0.0246	54.9	256.7
J-650	Municipal	219.5	0.0422	52.8	256.7
J-651	Municipal	219.5	0.0246	52.8	256.7
J-652	Municipal	218.0	0.0422	54.9	256.7
J-653	Municipal	218.0	0.0246	54.9	256.7
J-654	Municipal	220.9	0.0304	50.8	256.7
J-658	Municipal	220.5	0.0000	51.4	256.7
J-659	Municipal	186.0	0.0000	100.3	256.7
J-661	Municipal	178.4	0.0000	113.4	258.3
J-662	Spring	190.0	0.0000	57.4	230.4
J-663	Municipal	213.8	0.0000	56.4	253.6
J-664	Municipal	196.0	0.0000	86.1	256.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	95.5	256.6
J-666	Municipal	187.0	0.0000	98.9	256.6
J-667	Municipal	187.2	0.0000	98.6	256.7
J-668	Municipal	178.5	0.0000	111.0	256.7
J-669	Non-Supply	245.0	0.0000	3.8	247.7
J-670	Non-Supply	242.0	0.0000	8.0	247.7
J-671	East Hill Pressure Zone	243.8	0.0000	74.8	296.5
J-672	East Hill Pressure Zone	243.0	0.0000	77.0	297.3
J-673	Industrial	187.0	0.0000	124.1	274.4
J-674	Spring	186.3	0.0000	60.9	229.2
J-675	Industrial	221.5	0.1590	74.3	273.8
J-676	Industrial	220.0	0.0000	76.4	273.8
J-677	Industrial	226.9	1.1260	66.6	273.8
J-678	Industrial	221.4	0.0000	74.4	273.8
J-679	Municipal	214.4	0.0000	60.0	256.7
J-680	Municipal	214.3	0.0000	60.2	256.7
J-681	Municipal	213.1	0.0540	61.9	256.7
J-682	Municipal	214.9	0.0000	61.7	258.4
J-683	Municipal	218.0	0.0000	54.9	256.7
J-684	East Hill Pressure Zone	234.5	4.7390	82.5	292.6
J-685	East Hill Pressure Zone	242.0	0.0000	73.3	293.7
J-687	Spring	188.6	0.0000	59.4	230.4
J-688	Spring	192.0	0.0000	54.5	230.4
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	12.5020	124.5	272.7
J-692	Industrial	214.0	32.9540	83.9	273.1
J-693	Industrial	222.0	0.0000	73.2	273.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	5.5410	52.0	273.7
J-695	East Hill Pressure Zone	237.0	4.8300	78.8	292.5
J-696	East Hill Pressure Zone	242.0	7.9420	71.7	292.5
J-697	East Hill Pressure Zone	242.0	30.4760	71.1	292.1
J-698	Industrial	189.0	3.1270	120.0	273.6
J-699	Industrial	200.0	30.5530	103.4	272.8
J-700	Municipal	200.0	0.0000	103.4	272.8
J-701	Industrial	201.7	0.0000	102.6	274.0
J-702	Spring	185.9	0.0000	61.5	229.2
J-703	Spring	185.9	0.0000	61.5	229.2
J-704	Spring	189.6	0.0000	56.3	229.2
J-705	Spring	189.6	0.0000	56.3	229.2
J-706	Industrial	234.0	0.0000	56.6	273.8
J-707	Industrial	238.0	0.0000	50.9	273.9
J-708	Industrial	236.0	1.4540	53.7	273.8
J-709	East Hill Pressure Zone	230.0	0.0000	89.4	293.0
J-710	Industrial	210.0	0.3300	90.7	273.9
J-711	<None>	230.0	0.0000	62.3	273.9
J-712	<None>	251.0	0.0000	32.6	273.9
J-713	Municipal	216.0	0.3750	60.4	258.6
J-714	Municipal	209.0	0.1680	70.5	258.6
J-715	Municipal	209.5	0.0000	69.7	258.6
J-716	Municipal	208.5	0.1680	71.2	258.6
J-717	Municipal	208.0	0.1680	71.9	258.6
J-718	Municipal	204.0	0.1680	77.6	258.6
J-719	Municipal	202.0	0.1680	80.4	258.7
J-720	Municipal	209.5	0.3750	69.7	258.6



BURNSIDE

Ultimate Plan – Maximum Day Demand (MDD)

Ultimate Plan - Maximum Day Demand (MDD)

Scenario Summary

<General>

Scenario Id	94
Scenario Label	17 - ULTIMATE - MDD (1.8*ADD)
Scenario Notes	Created: 11/29/06 03:09:05 PM
Calculation Options ID	74
Calculation Options Label	17 - ULTIMATE - MDD
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives

Active Topology	1945: 2026 and Beyond - with future pumps and storage
Physical	1929: 2026 and Beyond Upgrades
Demand	1914: Ultimate - MDD (1.8*ADD)
Initial Settings	1931: Ultimate - with future pumps on
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags

Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Ultimate Plan - Maximum Day Demand (MDD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	2.4421	69.5	295.8
J-3	East Hill Pressure Zone	245.7	1.6459	71.2	295.9
J-4	East Hill Pressure Zone	243.8	2.0180	73.7	295.7
J-5	East Hill Pressure Zone	242.2	2.2560	75.6	295.4
J-6	East Hill Pressure Zone	238.3	1.9912	81.2	295.5
J-7	East Hill Reduced Pressure Zone	225.4	1.6728	44.9	257.0
J-8	East Hill Pressure Zone	243.6	0.0000	73.9	295.6
J-9	East Hill Pressure Zone	238.3	0.1592	81.2	295.5
J-10	East Hill Pressure Zone	227.6	0.6101	96.4	295.5
J-11	East Hill Pressure Zone	229.9	0.6637	93.1	295.5
J-12	East Hill Pressure Zone	234.1	1.1146	86.7	295.2
J-13	East Hill Pressure Zone	235.8	0.8498	84.2	295.1
J-14	East Hill Pressure Zone	243.2	0.0000	73.7	295.2
J-15	East Hill Pressure Zone	229.0	0.0000	89.5	292.1
J-16	East Hill Pressure Zone	240.0	4.3546	70.8	289.9
J-17	East Hill Pressure Zone	243.0	0.7938	70.1	292.4
J-18	East Hill Pressure Zone	229.0	0.0000	94.3	295.4
J-19	East Hill Pressure Zone	234.8	0.3721	79.8	291.0
J-20	East Hill Reduced Pressure Zone	226.2	1.2470	44.7	257.7
J-21	East Hill Pressure Zone	247.0	1.0090	62.4	291.0
J-22	East Hill Pressure Zone	234.6	7.2475	75.2	287.6
J-23	East Hill Reduced Pressure Zone	227.7	1.4080	42.8	257.8
J-24	East Hill Pressure Zone	246.0	2.8411	59.0	287.5
J-25	East Hill Pressure Zone	258.2	1.7783	40.2	286.5
J-26	East Hill Pressure Zone	264.3	0.7174	31.2	286.3
J-27	East Hill Pressure Zone	255.1	0.0000	42.1	284.8
J-28	East Hill Pressure Zone	273.5	1.5082	17.8	286.1
J-29	East Hill Pressure Zone	234.6	0.8766	73.7	286.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	1.1683	46.0	256.5
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	42.2	256.4
J-32	East Hill Reduced Pressure Zone	216.7	3.1326	55.9	256.1
J-33	East Hill Reduced Pressure Zone	218.1	4.1417	53.8	256.0
J-34	East Hill Reduced Pressure Zone	216.3	0.9035	56.7	256.2
J-35	East Hill Reduced Pressure Zone	216.7	2.4689	56.6	256.6
J-36	East Hill Reduced Pressure Zone	217.6	1.1682	55.3	256.6
J-37	East Hill Reduced Pressure Zone	214.6	2.1236	59.6	256.6
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	60.4	256.7
J-39	East Hill Reduced Pressure Zone	214.4	3.5316	60.4	257.0
J-40	East Hill Reduced Pressure Zone	217.2	1.6728	56.6	257.1
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	57.3	256.7
J-42	East Hill Reduced Pressure Zone	217.1	1.2738	56.6	256.9
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	55.0	256.7
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	49.4	256.8
J-45	East Hill Reduced Pressure Zone	223.0	0.2916	48.2	256.9
J-46	East Hill Reduced Pressure Zone	219.2	0.2916	53.6	257.0
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	44.8	257.1
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	44.9	257.3
J-49	East Hill Reduced Pressure Zone	217.8	1.6728	55.9	257.2
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	55.9	257.2
J-51	East Hill Reduced Pressure Zone	220.0	2.3097	52.8	257.2
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	43.8	257.4
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	42.5	257.2
J-54	East Hill Reduced Pressure Zone	216.7	1.2470	57.3	257.0
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	58.4	257.0
J-56	East Hill Reduced Pressure Zone	214.8	0.5582	59.9	257.0
J-57	East Hill Reduced Pressure Zone	211.3	0.5045	64.9	257.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.5045	60.2	257.0
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	47.2	257.0
J-60	East Hill Reduced Pressure Zone	221.3	1.6728	50.7	257.0
J-61	Non-Supply	242.2	0.0000	7.7	247.6
J-64	Non-Supply	238.3	0.0000	13.7	248.0
J-65	Non-Supply	226.6	0.0000	32.3	249.4
J-66	Municipal	213.8	2.0916	54.1	251.9
J-67	Municipal	183.6	0.0000	100.2	254.2
J-68	Municipal	215.8	0.3147	51.1	251.8
J-69	Municipal	216.1	0.8999	52.4	253.0
J-70	Municipal	215.7	0.8787	53.5	253.4
J-71	Municipal	215.8	0.6171	53.2	253.2
J-72	Municipal	213.7	0.6719	56.2	253.3
J-73	Municipal	210.7	0.3147	60.8	253.6
J-74	Municipal	211.3	0.6612	60.8	254.1
J-75	Municipal	213.6	0.6390	57.1	253.8
J-76	Municipal	211.3	0.0000	61.2	254.4
J-77	Municipal	211.7	0.2281	60.7	254.5
J-78	Municipal	213.1	0.8239	58.7	254.5
J-79	Municipal	214.3	0.8451	56.0	253.8
J-80	Municipal	215.6	0.8663	54.0	253.6
J-81	Industrial	217.1	0.5327	79.2	272.9
J-82	Municipal	217.1	0.6294	52.0	253.7
J-83	Municipal	217.7	0.0000	51.3	253.9
J-84	Municipal	216.7	0.2484	52.9	253.9
J-85	Municipal	216.6	0.0000	54.2	254.8
J-86	Municipal	217.6	0.0000	52.9	254.9
J-87	Municipal	214.6	1.7008	57.4	255.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.4986	56.0	255.1
J-90	Municipal	216.3	0.7036	55.0	255.1
J-91	Municipal	215.8	0.4986	54.9	254.5
J-92	Municipal	214.2	0.6719	58.0	255.1
J-93	Municipal	214.2	0.6931	57.6	254.8
J-94	Municipal	213.3	0.4013	59.3	255.1
J-95	Municipal	180.6	1.1492	105.2	254.7
J-96	Municipal	180.6	0.0000	105.2	254.7
J-97	Municipal	188.7	0.0000	97.8	257.6
J-98	Municipal	190.2	0.0000	94.8	257.0
J-99	Municipal	187.7	0.7797	98.3	257.0
J-100	Municipal	202.4	0.8086	76.7	256.5
J-101	Municipal	204.0	0.0000	74.3	256.4
J-102	Municipal	201.4	0.3802	77.9	256.3
J-103	Municipal	205.6	0.5386	71.8	256.2
J-104	Municipal	180.2	0.0000	105.0	254.1
J-105	Municipal	179.8	0.0000	105.5	254.1
J-106	Municipal	184.1	0.0000	99.4	254.1
J-107	Municipal	182.6	0.0000	101.5	254.1
J-109	East Hill Pressure Zone	226.7	0.0000	84.9	286.5
J-115	Municipal	182.6	0.0000	101.4	254.1
J-116	Municipal	188.2	0.0000	93.4	254.0
J-117	Municipal	189.0	0.0654	92.2	254.0
J-118	Municipal	217.2	0.6294	52.2	254.0
J-119	Municipal	218.6	0.0000	50.2	254.0
J-120	Municipal	217.2	0.4333	52.2	254.0
J-121	Municipal	217.4	0.9423	51.9	254.0
J-122	East Hill Pressure Zone	238.0	0.0000	74.1	290.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	4.1417	70.9	290.0
J-124	Municipal	217.0	0.5305	52.5	254.0
J-125	Municipal	217.0	0.3465	52.5	254.0
J-126	Municipal	216.6	0.2705	53.1	254.0
J-127	Municipal	216.1	0.7904	53.8	254.0
J-128	Municipal	215.3	0.0000	54.9	254.0
J-129	Municipal	212.6	0.0548	58.7	254.0
J-130	Municipal	213.1	0.2811	58.0	253.9
J-131	Municipal	213.6	0.7267	57.3	253.9
J-132	Municipal	213.8	1.0184	57.0	253.9
J-133	Municipal	211.7	0.6064	60.0	253.9
J-134	Municipal	213.6	0.8999	57.2	253.9
J-135	Municipal	211.6	0.1184	60.1	254.0
J-136	Municipal	210.8	0.3465	61.3	254.0
J-137	Municipal	211.4	0.8239	60.4	254.0
J-138	Municipal	211.2	3.8367	60.6	253.9
J-139	Municipal	214.7	1.1280	55.6	253.9
J-140	Municipal	211.8	0.5958	59.8	253.9
J-141	Municipal	212.6	0.0000	58.6	253.9
J-142	Municipal	210.7	0.6826	61.3	253.9
J-143	Municipal	209.8	1.1810	62.6	253.9
J-144	Municipal	211.2	0.6064	60.6	253.9
J-145	Municipal	209.7	1.5276	62.9	254.0
J-146	Municipal	210.2	1.9732	62.1	253.9
J-147	Municipal	209.0	2.1465	63.7	253.9
J-148	Municipal	181.6	0.0000	102.7	253.9
J-149	Municipal	180.4	0.0000	104.6	254.1
J-150	Municipal	177.7	0.0000	108.3	254.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.3465	107.3	254.0
J-152	Municipal	178.7	0.0000	106.8	254.0
J-153	Municipal	179.6	0.0000	105.5	253.9
J-154	Municipal	178.9	0.2387	106.5	253.9
J-155	Municipal	190.6	2.4930	89.9	253.9
J-156	Municipal	179.4	0.3802	105.8	253.9
J-157	Municipal	178.6	0.3802	107.0	253.9
J-158	Municipal	186.2	0.6719	96.2	253.9
J-159	Municipal	179.6	0.4986	105.5	253.9
J-160	Municipal	187.8	2.4611	93.9	253.9
J-161	Municipal	184.1	0.0000	99.1	253.9
J-162	Municipal	178.3	0.0000	107.4	254.0
J-163	Municipal	187.1	0.0000	94.8	253.9
J-164	Municipal	189.6	2.2649	91.2	253.9
J-165	Municipal	189.8	0.2599	90.9	253.8
J-166	Municipal	189.4	0.1733	91.5	253.9
J-167	Municipal	196.8	0.3253	80.9	253.8
J-168	Municipal	199.6	0.0000	77.0	253.8
J-169	Municipal	204.1	0.0000	70.6	253.8
J-170	Municipal	202.2	0.5305	73.3	253.8
J-171	Municipal	194.7	0.2050	84.0	253.8
J-172	Municipal	190.1	0.2599	90.5	253.9
J-173	Municipal	187.7	0.0000	94.0	254.0
J-176	East Hill Pressure Zone	240.0	0.0000	70.9	289.9
J-177	East Hill Pressure Zone	239.0	4.1416	71.9	289.6
J-178	Municipal	180.6	0.0000	104.1	253.9
J-179	Municipal	202.2	0.0000	73.4	253.9
J-180	Municipal	211.5	0.0000	60.2	253.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	107.3	254.0
J-182	Municipal	178.1	0.0000	107.7	254.0
J-183	Municipal	178.1	0.0000	107.7	254.0
J-184	Municipal	178.7	0.0000	106.8	254.0
J-185	Municipal	182.1	0.0000	102.0	253.9
J-186	Municipal	187.8	0.0000	93.9	253.9
J-187	Municipal	195.4	0.0000	83.1	253.9
J-188	Municipal	187.3	0.0000	94.5	253.9
J-189	Municipal	188.2	0.0000	93.2	253.9
J-190	Municipal	190.1	0.0000	90.5	253.9
J-191	Municipal	191.7	0.0000	88.2	253.9
J-192	Municipal	202.6	0.0000	72.8	253.9
J-193	Municipal	185.3	0.7161	97.3	253.8
J-194	Municipal	200.0	0.0000	76.4	253.8
J-195	Municipal	201.6	1.1280	74.1	253.8
J-196	Municipal	202.6	1.4304	72.7	253.8
J-197	Municipal	205.1	0.0000	69.1	253.8
J-198	Municipal	200.6	0.0000	75.5	253.8
J-199	Municipal	199.2	0.4986	77.5	253.8
J-200	Municipal	201.6	1.0078	74.0	253.8
J-201	Municipal	203.9	0.0000	70.8	253.7
J-202	Municipal	204.2	0.0000	70.3	253.7
J-203	Municipal	186.6	0.0866	95.3	253.8
J-204	Municipal	186.1	0.6825	96.0	253.7
J-205	Municipal	182.1	0.3801	101.7	253.7
J-206	Municipal	178.8	0.0000	106.4	253.7
J-208	Municipal	188.1	0.2050	93.2	253.7
J-209	Municipal	188.3	0.0000	92.9	253.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	80.8	253.7
J-211	Municipal	185.2	0.0000	97.3	253.7
J-212	Municipal	183.8	0.6612	99.3	253.7
J-213	Municipal	182.7	0.0000	100.8	253.7
J-214	Municipal	185.6	0.0000	96.7	253.7
J-215	Municipal	186.8	0.2935	95.0	253.7
J-216	Municipal	186.1	0.6400	96.0	253.7
J-217	Municipal	220.4	0.0972	47.7	254.0
J-219	Municipal	218.5	0.0000	50.4	254.0
J-220	Municipal	220.5	0.0000	47.5	254.0
J-223	Spring	188.2	0.0000	54.1	226.3
J-224	Spring	187.3	0.0000	55.4	226.3
J-225	Spring	186.7	0.6171	56.3	226.3
J-226	Spring	185.9	1.0520	57.4	226.3
J-227	Spring	186.1	0.4774	57.1	226.3
J-228	Spring	186.6	0.6719	56.4	226.3
J-229	Spring	186.6	1.0396	56.4	226.3
J-230	Spring	187.4	0.4332	55.3	226.3
J-231	Spring	189.6	0.7373	52.1	226.3
J-232	Spring	186.1	1.0396	57.1	226.3
J-233	Spring	186.4	0.7903	56.7	226.3
J-234	Spring	188.7	0.6826	53.4	226.4
J-235	Spring	194.3	0.0000	45.5	226.4
J-236	Spring	184.1	0.6719	60.0	226.3
J-237	Spring	185.6	0.5398	57.9	226.4
J-238	Spring	187.2	0.6825	55.6	226.4
J-239	Spring	190.1	0.4332	51.5	226.4
J-240	Spring	182.1	0.6612	63.0	226.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	0.6930	62.3	226.5
J-242	Spring	183.6	0.5640	60.9	226.5
J-243	Spring	185.7	1.2147	57.9	226.5
J-244	Spring	187.9	0.5640	54.7	226.4
J-245	Spring	180.1	0.0000	66.0	226.6
J-246	Spring	180.2	0.6825	66.0	226.7
J-247	Spring	181.2	1.4009	64.8	226.8
J-248	Spring	182.2	0.0760	63.5	226.9
J-249	Spring	185.6	0.6294	58.4	226.7
J-250	Spring	179.9	0.0000	67.5	227.4
J-251	Spring	181.6	0.0000	65.0	227.4
J-252	Spring	183.6	1.9625	62.2	227.4
J-253	Spring	180.1	0.1520	68.1	228.1
J-254	Spring	183.9	0.8239	62.7	228.1
J-255	Spring	178.2	0.7479	73.3	229.8
J-256	Spring	184.1	1.0520	63.8	229.1
J-257	Spring	188.3	1.0078	57.7	228.9
J-258	Spring	182.8	0.4986	67.1	230.1
J-259	Spring	190.6	0.3907	55.7	229.8
J-260	Spring	183.8	1.2359	65.5	229.9
J-261	Spring	190.1	0.0000	56.6	229.9
J-262	Spring	180.6	0.0866	70.0	229.9
J-263	Spring	179.8	0.3678	65.9	226.2
J-264	Spring	182.6	0.8999	62.0	226.3
J-265	Spring	181.8	0.0000	62.7	226.0
J-267	Spring	182.6	0.4544	61.4	225.9
J-268	Spring	184.6	0.2175	58.5	225.8
J-269	Spring	181.3	3.2727	63.2	225.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.3678	64.7	226.0
J-271	Spring	180.8	0.9654	63.9	225.8
J-272	Spring	179.8	1.4746	65.3	225.8
J-273	Spring	179.6	0.0000	65.6	225.8
J-274	Spring	178.8	2.4275	66.8	225.8
J-275	Spring	180.1	0.5092	64.8	225.7
J-276	Spring	179.8	0.5304	65.2	225.7
J-277	Spring	179.1	0.4544	66.2	225.7
J-278	Spring	178.8	2.6981	66.6	225.7
J-279	Spring	177.9	0.0000	67.9	225.8
J-280	Spring	179.5	0.0000	65.6	225.7
J-281	Spring	178.8	0.0000	66.6	225.7
J-282	Spring	186.1	0.6931	56.2	225.7
J-283	Spring	182.6	1.8105	61.2	225.7
J-284	Spring	179.4	0.7373	65.8	225.7
J-285	Spring	179.2	0.4120	66.0	225.7
J-286	Spring	178.9	0.0000	66.5	225.7
J-287	Spring	178.6	0.0000	66.9	225.7
J-288	Spring	178.4	1.2253	67.2	225.7
J-289	Spring	177.9	0.0000	67.9	225.8
J-291	Industrial	189.3	0.0000	119.5	273.5
J-292	Industrial	183.5	11.5547	125.3	271.8
J-293	Industrial	201.7	9.0666	101.6	273.3
J-294	Industrial	211.4	0.0000	87.5	273.1
J-295	Industrial	214.4	13.6728	83.2	273.0
J-296	Industrial	218.6	2.8540	77.1	272.9
J-297	Industrial	214.4	5.2146	83.3	273.1
J-298	Industrial	214.2	1.1178	83.5	273.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	2.8540	82.6	273.0
J-300	Industrial	213.8	1.8196	84.1	273.1
J-301	Industrial	214.6	0.0000	82.9	273.0
J-302	Industrial	214.8	19.3556	82.4	272.8
J-303	Industrial	218.6	0.0000	77.1	272.9
J-304	Industrial	222.8	17.7018	70.3	272.3
J-305	Industrial	220.7	0.0000	74.2	273.0
J-306	Industrial	226.2	6.1236	66.4	273.0
J-307	Industrial	219.6	2.2608	75.8	273.0
J-308	Industrial	225.8	0.0000	67.0	273.0
J-309	Industrial	216.7	7.4860	79.7	272.9
J-310	Industrial	217.1	0.2484	79.3	272.9
J-311	Industrial	218.2	0.5596	77.6	272.9
J-312	Industrial	218.0	3.3352	77.9	272.9
J-313	Industrial	220.3	0.0000	74.6	272.9
J-314	Industrial	221.3	0.5850	73.2	272.9
J-315	Industrial	218.7	0.5596	76.9	272.9
J-316	Industrial	217.1	0.4499	79.2	272.9
J-317	Industrial	218.7	0.2177	76.9	272.9
J-318	Industrial	220.4	0.0000	74.4	272.8
J-319	Industrial	219.4	0.4499	75.8	272.8
J-320	Industrial	219.8	0.3275	75.2	272.8
J-321	Industrial	222.4	0.3275	71.6	272.8
J-322	Industrial	224.3	0.3275	68.9	272.8
J-323	Industrial	221.4	0.2177	73.0	272.8
J-324	Industrial	220.6	0.2177	74.1	272.8
J-325	Industrial	226.6	0.2177	65.7	272.9
J-326	Municipal	189.3	0.0000	91.9	254.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	98.6	254.0
J-328	Municipal	178.4	0.0000	109.9	255.8
J-329	Municipal	211.7	0.0000	62.5	255.8
J-330	Municipal	211.8	0.4482	62.4	255.7
J-331	Municipal	214.6	0.0000	58.3	255.7
J-332	Municipal	213.4	0.0000	60.0	255.7
J-333	Spring	178.7	0.0000	71.5	229.1
J-334	Spring	178.2	0.0000	73.4	229.9
J-335	East Hill Pressure Zone	245.9	0.0000	71.0	295.9
J-336	East Hill Pressure Zone	240.2	0.0000	78.7	295.6
J-337	East Hill Pressure Zone	250.6	0.0000	63.6	295.4
J-338	East Hill Pressure Zone	236.0	0.0000	83.9	295.1
J-339	Industrial	219.6	0.0000	75.6	272.8
J-340	Industrial	218.2	0.0000	77.6	272.9
J-341	Municipal	210.6	0.0000	61.5	253.9
J-342	Municipal	211.1	0.0000	60.8	254.0
J-343	Municipal	181.1	0.0000	103.4	253.9
J-344	Municipal	187.5	0.0000	94.3	253.9
J-345	Municipal	189.1	0.0000	92.0	253.9
J-346	Municipal	188.1	0.0000	93.4	253.9
J-347	Municipal	209.6	0.0000	62.9	253.9
J-348	Municipal	206.3	0.0000	67.6	253.9
J-349	Municipal	189.2	0.0000	91.9	253.9
J-351	Municipal	209.5	0.0000	63.0	253.9
J-353	Municipal	216.5	0.0000	53.1	253.9
J-354	Municipal	217.0	0.0000	52.4	253.9
J-355	Municipal	212.0	0.0000	59.5	253.9
J-356	Municipal	200.0	0.0000	76.4	253.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	76.4	253.9
J-358	Municipal	200.0	0.0000	76.4	253.9
J-359	Municipal	200.0	0.0000	76.6	253.9
J-360	Municipal	202.0	0.0000	73.7	253.9
J-361	Municipal	201.0	0.0000	75.2	253.9
J-362	Municipal	199.0	0.0000	78.0	253.9
J-363	Municipal	205.5	0.0000	68.7	253.9
J-364	Municipal	205.0	0.0000	69.4	253.9
J-366	Municipal	180.0	0.0000	104.9	253.9
J-367	Municipal	185.0	0.0000	97.8	253.9
J-368	Municipal	180.0	0.0000	104.9	253.9
J-369	Municipal	195.0	0.0000	83.6	253.9
J-370	Municipal	195.0	0.0000	83.6	253.9
J-371	Municipal	210.0	0.0000	62.3	253.9
J-372	Municipal	207.5	0.0000	65.9	253.9
J-373	Municipal	200.0	0.0000	76.5	253.9
J-374	Municipal	208.0	0.0000	65.2	253.9
J-375	Municipal	208.0	0.0000	65.2	253.9
J-376	Municipal	205.0	0.0000	69.4	253.9
J-377	Municipal	203.5	0.0000	71.4	253.8
J-378	Municipal	203.5	0.0000	71.4	253.8
J-381	Municipal	180.0	0.0000	104.7	253.7
J-382	Municipal	180.0	0.0000	104.7	253.7
J-383	Municipal	178.0	0.0000	107.6	253.8
J-384	Municipal	185.0	0.0000	97.8	253.9
J-385	Municipal	185.0	0.0000	97.8	253.9
J-386	Spring	185.0	0.0000	57.8	225.7
J-387	Spring	180.5	0.0000	64.3	225.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	57.9	225.8
J-389	Spring	185.0	0.0000	57.9	225.8
J-390	Spring	185.0	0.0000	57.9	225.8
J-391	Spring	185.0	0.0000	57.9	225.8
J-392	Municipal	210.0	0.0000	62.4	253.9
J-393	Municipal	206.0	0.0000	68.0	253.9
J-394	Municipal	210.0	0.0000	62.4	253.9
J-395	Municipal	209.8	0.0000	62.8	254.0
J-396	Municipal	206.0	0.0000	68.2	254.0
J-397	Municipal	213.0	0.0000	58.1	253.9
J-398	Municipal	214.0	0.0000	56.7	253.9
J-400	Municipal	220.0	0.0000	48.1	253.9
J-401	Municipal	207.5	0.0000	65.9	253.9
J-402	Municipal	207.5	0.0000	65.9	253.9
J-403	Municipal	214.5	0.0000	55.9	253.9
J-404	Municipal	216.0	0.0000	53.8	253.9
J-405	Municipal	220.0	0.0000	48.1	253.9
J-406	Municipal	210.5	0.0000	61.7	254.0
J-407	Municipal	205.0	0.0000	69.5	254.0
J-408	Municipal	210.0	0.0000	62.4	254.0
J-409	Municipal	212.5	0.0000	58.8	253.9
J-410	Municipal	212.0	0.0000	59.5	253.9
J-411	Municipal	215.0	0.0000	55.3	253.9
J-412	Municipal	214.3	0.0000	56.3	253.9
J-413	Municipal	216.0	0.0000	53.9	253.9
J-414	Municipal	214.5	0.0000	56.0	254.0
J-415	Municipal	213.1	0.0000	58.0	254.0
J-416	Municipal	218.0	0.0000	51.1	254.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	51.1	254.0
J-418	Municipal	218.0	0.0000	51.1	254.0
J-419	Municipal	218.0	0.1627	51.1	254.0
J-420	Municipal	218.0	0.0000	51.1	254.0
J-421	Municipal	216.0	0.0000	53.9	254.0
J-422	Municipal	216.0	0.0000	53.9	254.0
J-423	Municipal	215.0	0.0000	55.3	254.0
J-424	Municipal	210.0	0.0000	62.4	254.0
J-425	Spring	186.0	0.0000	57.3	226.3
J-426	Municipal	181.5	0.0000	102.9	254.0
J-428	Spring	186.0	0.0000	57.3	226.3
J-429	Spring	185.0	0.0000	58.7	226.3
J-430	Spring	185.0	0.0000	58.7	226.3
J-431	Spring	185.0	0.0000	58.7	226.3
J-432	Spring	190.0	0.0000	51.5	226.3
J-433	Municipal	208.0	0.0000	65.2	253.9
J-434	Municipal	206.0	0.0000	68.1	253.9
J-435	Municipal	219.5	0.0000	48.9	254.0
J-436	Municipal	178.0	0.0000	107.9	254.0
J-437	Spring	178.0	2.6712	73.5	229.8
J-438	Spring	178.0	3.2796	70.7	227.8
J-439	Spring	185.0	0.0000	58.7	226.3
J-440	Spring	187.0	0.0000	55.8	226.3
J-441	Spring	185.0	0.0000	58.7	226.3
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	56.1	256.0
J-443	East Hill Reduced Pressure Zone	216.0	0.0288	56.8	256.0
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	56.9	256.1
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	56.9	256.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	56.9	256.1
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	56.2	256.1
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	56.2	256.1
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	55.9	256.4
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	55.9	256.4
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	54.9	256.2
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	54.9	256.2
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	56.9	256.6
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	56.9	256.6
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	56.9	256.6
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	57.6	256.6
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	57.6	256.6
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	59.3	256.8
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	55.4	257.0
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	56.8	257.0
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	57.0	257.2
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	64.1	257.2
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	57.0	257.2
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	63.1	257.2
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	55.5	257.1
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	59.8	257.1
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	61.2	257.1
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	61.4	257.0
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	54.1	257.1
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	56.9	257.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	59.8	257.1
J-475	East Hill Reduced Pressure Zone	194.0	0.0268	72.9	245.3
J-477	Spring	185.0	0.0000	59.1	226.7
J-478	Spring	195.0	0.0000	44.7	226.5
J-479	Spring	192.0	0.0000	48.9	226.5
J-480	Spring	181.0	0.0000	65.9	227.4
J-481	Industrial	231.0	0.0000	59.4	272.8
J-482	Municipal	216.3	0.0000	50.4	251.8
J-483	Municipal	180.0	0.0000	106.4	255.0
J-484	Municipal	179.0	0.0000	107.9	255.0
J-485	Municipal	178.0	0.0000	110.3	255.7
J-486	Municipal	178.0	0.0000	110.3	255.7
J-487	Municipal	179.0	0.0000	109.2	255.9
J-490	Municipal	178.5	0.0000	108.2	254.7
J-491	Municipal	212.5	0.0000	60.0	254.8
J-492	Municipal	213.0	0.0000	59.3	254.8
J-493	Municipal	215.0	0.0000	56.4	254.8
J-495	Municipal	213.0	0.0000	60.7	255.8
J-496	Municipal	214.5	0.0000	58.6	255.8
J-497	Municipal	180.0	3.0276	108.5	256.4
J-498	Municipal	180.0	1.3374	108.5	256.4
J-499	Municipal	180.0	0.0000	108.6	256.5
J-500	Municipal	180.0	0.0000	108.6	256.5
J-501	Municipal	180.0	0.0000	108.6	256.5
J-502	Municipal	207.0	0.0324	69.9	256.2
J-503	Municipal	206.7	0.0792	70.3	256.2
J-504	Municipal	207.5	0.0000	69.1	256.2
J-505	Municipal	212.0	0.0000	62.7	256.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	67.8	256.2
J-507	Municipal	205.5	0.0000	71.9	256.2
J-508	Municipal	213.0	0.0000	61.3	256.2
J-509	Municipal	215.0	0.3420	58.2	256.0
J-510	Municipal	215.5	0.0000	57.7	256.1
J-511	Industrial	213.5	0.0000	84.6	273.1
J-512	Industrial	218.0	0.0000	77.9	272.9
J-514	Industrial	220.0	0.0000	75.1	272.9
J-515	Municipal	214.0	0.0000	56.8	254.0
J-516	Municipal	214.0	0.0000	56.8	254.0
J-517	Municipal	216.0	0.0000	53.9	254.0
J-518	Municipal	216.0	0.0000	53.9	254.0
J-520	Municipal	217.0	0.0000	52.5	254.0
J-521	Municipal	217.0	0.0000	52.5	254.0
J-525	Municipal	178.8	0.0000	106.8	254.1
J-526	Municipal	179.6	0.0000	105.7	254.0
J-527	Spring	182.0	0.0000	63.2	226.5
J-528	Spring	182.0	0.0000	63.2	226.5
J-529	Municipal	179.0	0.0000	106.3	253.9
J-530	Municipal	179.0	0.0000	106.3	253.9
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	62.2	257.0
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	65.3	257.0
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	63.9	257.0
J-534	Municipal	178.0	0.0000	107.8	254.0
J-535	East Hill Pressure Zone	230.0	0.0000	93.0	295.5
J-536	East Hill Pressure Zone	228.4	0.0000	95.3	295.5
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	35.7	257.0
J-538	East Hill Pressure Zone	240.0	0.0000	78.8	295.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	106.5	254.0
J-540	Municipal	178.0	0.0000	107.9	254.0
J-542	Spring	190.5	0.0000	56.0	229.9
J-543	Spring	184.0	0.0000	65.3	230.0
J-544	Municipal	217.0	0.8532	51.1	253.0
J-545	Municipal	217.5	0.0000	50.4	253.0
J-546	Municipal	217.5	0.0000	50.4	253.0
J-547	Industrial	219.0	0.0000	76.4	272.9
J-548	Industrial	219.0	0.3330	76.4	272.9
J-549	Industrial	219.5	0.0000	75.7	272.9
J-550	Industrial	217.0	0.8602	79.3	272.9
J-552	Industrial	217.5	0.0000	78.7	272.9
J-553	Industrial	218.0	0.0000	78.0	272.9
J-554	Municipal	212.0	0.0000	62.1	255.7
J-555	Municipal	178.0	1.9060	111.5	256.6
J-556	Municipal	179.5	0.0000	109.7	256.8
J-557	Municipal	183.0	0.0000	104.7	256.8
J-558	Industrial	215.0	0.0000	82.6	273.2
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	51.9	256.6
J-560	Municipal	217.2	0.0000	52.2	254.0
J-561	Municipal	185.0	0.0000	97.9	254.0
J-562	Industrial	220.3	0.0000	74.6	272.9
J-563	Industrial	218.7	0.5436	76.9	272.9
J-564	Non-Supply	246.0	0.0000	2.3	247.6
J-565	Industrial	179.5	0.0000	147.4	283.4
J-566	Industrial	179.5	0.0000	147.4	283.4
J-567	Industrial	179.5	0.0000	147.4	283.3
J-568	Industrial	179.5	0.0000	147.4	283.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	134.4	274.2
J-570	Industrial	179.5	0.0000	134.3	274.1
J-571	Industrial	179.5	0.0000	147.4	283.3
J-572	Industrial	179.5	0.0000	134.4	274.2
J-573	Municipal	185.5	0.0000	102.8	257.9
J-574	Municipal	185.5	0.0000	102.8	257.9
J-575	Municipal	185.5	0.0000	102.8	257.9
J-576	Municipal	185.5	0.0000	102.5	257.7
J-578	Municipal	188.5	0.0000	98.3	257.7
J-579	Non-Supply	243.0	0.0000	6.3	247.4
J-580	Non-Supply	243.0	0.0000	6.2	247.4
J-581	East Hill Pressure Zone	243.0	0.0000	76.5	296.9
J-582	East Hill Pressure Zone	243.0	0.0000	76.5	296.9
J-583	East Hill Pressure Zone	243.5	0.0000	72.2	294.3
J-584	East Hill Pressure Zone	243.3	1.4292	72.1	294.1
J-585	Industrial	222.5	0.0000	71.5	272.9
J-586	Industrial	220.6	0.0000	74.3	273.0
J-587	Industrial	221.0	0.0000	73.8	273.0
J-588	Industrial	220.1	0.0000	75.0	273.0
J-589	Industrial	220.4	0.0000	74.6	273.0
J-590	Industrial	224.6	0.0000	68.7	273.0
J-591	Spring	188.3	0.0000	57.2	228.6
J-592	Spring	188.3	0.0000	56.6	228.2
J-593	Spring	188.3	0.0000	56.6	228.2
J-594	Municipal	182.8	0.0000	101.3	254.2
J-595	Industrial	243.3	0.0000	42.1	272.9
J-596	Industrial	229.0	3.0600	62.3	272.9
J-597	East Hill Pressure Zone	229.0	0.0000	89.3	291.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	4.4424	62.1	295.8
J-600	East Hill Pressure Zone	244.5	0.0000	71.0	294.5
J-601	Spring	188.7	0.0000	58.5	229.9
J-602	Municipal	181.5	0.0000	102.9	254.0
J-603	Spring	179.2	0.0000	66.2	225.8
J-604	Spring	179.2	0.0000	66.2	225.8
J-605	Spring	186.7	0.0000	56.3	226.3
J-606	Spring	186.7	0.0000	56.3	226.3
J-607	Municipal	212.1	0.0468	61.8	255.6
J-608	Municipal	215.1	0.0000	54.6	253.5
J-609	Municipal	214.4	0.1062	58.9	255.9
J-610	Industrial	225.8	0.0000	67.0	273.0
J-611	Industrial	225.8	0.0000	67.0	273.0
J-612	Municipal	213.0	0.0000	60.7	255.8
J-613	Municipal	213.0	0.3582	60.7	255.8
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	45.2	257.8
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	43.7	257.8
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	45.1	257.8
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	45.5	257.0
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	52.5	257.0
J-620	Municipal	205.1	0.0000	69.1	253.8
J-621	Municipal	219.5	0.0000	48.9	254.0
J-622	Municipal	216.5	0.0000	53.2	254.0
J-623	Municipal	219.5	0.0000	48.9	254.0
J-624	Municipal	216.5	0.0000	53.2	254.0
J-626	Municipal	220.0	0.0000	48.1	253.9
J-627	Municipal	178.4	0.0000	107.2	254.0
J-628	Municipal	186.2	0.0000	96.2	253.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	101.4	254.0
J-631	Spring	184.6	0.0000	59.2	226.3
J-632	Municipal	183.6	0.0000	100.0	254.0
J-633	Municipal	187.3	0.0000	94.7	254.0
J-634	Municipal	190.0	0.0000	90.9	254.0
J-635	Municipal	180.1	0.0000	105.1	254.1
J-639	Industrial	229.0	1.3086	62.4	273.0
J-640	Municipal	182.1	0.0468	102.3	254.1
J-641	Industrial	224.6	0.0000	68.8	273.0
J-642	Industrial	224.6	0.0000	68.8	273.0
J-643	Industrial	224.6	0.0000	68.8	273.0
J-644	Municipal	180.0	0.0000	106.5	255.0
J-645	Industrial	224.6	0.0000	68.8	273.0
J-646	Industrial	224.6	0.0000	68.7	273.0
J-647	Municipal	213.0	0.0000	55.2	251.9
J-648	Municipal	219.5	0.0442	48.9	254.0
J-649	Municipal	218.0	0.0442	51.1	254.0
J-650	Municipal	219.5	0.0760	48.9	254.0
J-651	Municipal	219.5	0.0442	48.9	254.0
J-652	Municipal	218.0	0.0760	51.1	254.0
J-653	Municipal	218.0	0.0442	51.1	254.0
J-654	Municipal	220.9	0.0548	47.0	254.0
J-658	Municipal	220.5	0.0000	47.5	254.0
J-659	Municipal	186.0	0.0000	96.5	254.0
J-661	Municipal	178.4	0.0000	109.9	255.8
J-662	Spring	190.0	0.0000	56.7	229.9
J-663	Municipal	213.8	0.0000	54.0	251.9
J-664	Municipal	196.0	0.0000	82.1	253.9

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	91.5	253.9
J-666	Municipal	187.0	0.0000	94.9	253.9
J-667	Municipal	187.2	0.0000	94.7	253.9
J-668	Municipal	178.5	0.0000	107.1	254.0
J-669	Non-Supply	245.0	0.0000	3.7	247.6
J-670	Non-Supply	242.0	0.0000	8.0	247.6
J-671	East Hill Pressure Zone	243.8	0.0000	74.1	296.0
J-672	East Hill Pressure Zone	243.0	0.0000	76.5	296.9
J-673	Industrial	187.0	0.0000	123.7	274.1
J-674	Spring	186.3	0.0000	56.7	226.3
J-675	Industrial	221.5	0.2861	72.9	272.8
J-676	Industrial	220.0	0.0000	74.9	272.8
J-677	Industrial	226.9	2.0268	65.1	272.8
J-678	Industrial	221.4	0.0000	73.0	272.8
J-679	Municipal	214.4	0.0000	56.2	254.0
J-680	Municipal	214.3	0.0000	56.3	254.0
J-681	Municipal	213.1	0.0972	58.0	254.0
J-682	Municipal	214.9	0.0000	58.2	255.9
J-683	Municipal	218.0	0.0000	51.1	254.0
J-684	East Hill Pressure Zone	234.5	8.5302	73.5	286.3
J-685	East Hill Pressure Zone	242.0	0.0000	67.2	289.3
J-687	Spring	188.6	0.0000	58.6	229.9
J-688	Spring	192.0	0.0000	53.8	229.9
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	22.5036	119.7	269.3
J-692	Industrial	214.0	59.3172	80.4	270.6
J-693	Industrial	222.0	0.0000	71.1	272.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	9.9738	50.2	272.4
J-695	East Hill Pressure Zone	237.0	8.6940	69.4	285.9
J-696	East Hill Pressure Zone	242.0	14.2956	62.4	286.0
J-697	East Hill Pressure Zone	242.0	54.8568	60.6	284.7
J-698	Industrial	189.0	5.6286	117.6	271.8
J-699	Industrial	200.0	54.9954	99.0	269.8
J-700	Municipal	200.0	0.0000	99.0	269.8
J-701	Industrial	201.7	0.0000	101.3	273.1
J-702	Spring	185.9	0.0000	57.4	226.3
J-703	Spring	185.9	0.0000	57.4	226.3
J-704	Spring	189.6	0.0000	52.1	226.3
J-705	Spring	189.6	0.0000	52.1	226.3
J-706	Industrial	234.0	0.0000	55.4	273.0
J-707	Industrial	238.0	0.0000	49.8	273.1
J-708	Industrial	236.0	2.6172	52.6	273.0
J-709	East Hill Pressure Zone	230.0	0.0000	81.3	287.3
J-710	Industrial	210.0	0.5940	89.5	273.0
J-711	Industrial	230.0	0.0000	61.5	273.3
J-712	Industrial	251.0	0.0000	32.1	273.6
J-713	Municipal	216.0	0.3750	56.9	256.1
J-714	Municipal	209.0	0.1680	66.9	256.2
J-715	Municipal	209.5	0.0000	66.2	256.1
J-716	Municipal	208.5	0.1680	67.6	256.2
J-717	Municipal	208.0	0.1680	68.3	256.1
J-718	Municipal	204.0	0.1680	74.0	256.2
J-719	Municipal	202.0	0.1680	76.9	256.2
J-720	Municipal	209.5	0.3750	66.2	256.1



BURNSIDE

Ultimate Plan – Peak Hour Demand (PHD)

Ultimate Plan - Peak Hour Demand (PHD)

Scenario Summary

<General>	
Scenario Id	96
Scenario Label	18 - ULTIMATE - PH (2.7*ADD)
Scenario Notes	Created: 12/20/06 02:41:37 PM
Calculation Options ID	75
Calculation Options Label	18 - ULTIMATE - PH
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Hydraulics Only

Alternatives	
Active Topology	1945: 2026 and Beyond - with future pumps and storage
Physical	1929: 2026 and Beyond Upgrades
Demand	1915: Ultimate - PH (2.7*ADD)
Initial Settings	47: Base-Initial Settings
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags	
Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Time Analysis Type	Steady State
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Ultimate Plan - Peak Hour Demand (PHD)

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-2	East Hill Pressure Zone	246.9	3.6631	70.6	296.7
J-3	East Hill Pressure Zone	245.7	2.4689	73.6	297.6
J-4	East Hill Pressure Zone	243.8	3.0270	79.1	299.5
J-5	East Hill Pressure Zone	242.2	3.3840	80.2	298.7
J-6	East Hill Pressure Zone	238.3	2.9868	84.4	297.8
J-7	East Hill Reduced Pressure Zone	225.4	2.5092	43.7	256.2
J-8	East Hill Pressure Zone	243.6	0.0000	76.9	297.8
J-9	East Hill Pressure Zone	238.3	0.2388	84.2	297.6
J-10	East Hill Pressure Zone	227.6	0.9151	98.5	297.0
J-11	East Hill Pressure Zone	229.9	0.9956	93.8	296.0
J-12	East Hill Pressure Zone	234.1	1.6719	85.1	294.0
J-13	East Hill Pressure Zone	235.8	1.2747	82.5	293.9
J-14	East Hill Pressure Zone	243.2	0.0000	72.1	294.0
J-15	East Hill Pressure Zone	229.0	0.0000	82.9	287.4
J-16	East Hill Pressure Zone	240.0	6.5319	60.9	282.9
J-17	East Hill Pressure Zone	243.0	1.1907	63.9	288.0
J-18	East Hill Pressure Zone	229.0	0.0000	99.0	298.7
J-19	East Hill Pressure Zone	234.8	0.5582	76.8	288.9
J-20	East Hill Reduced Pressure Zone	226.2	1.8705	44.3	257.4
J-21	East Hill Pressure Zone	247.0	1.5135	59.4	288.9
J-22	East Hill Pressure Zone	234.6	10.8712	66.6	281.5
J-23	East Hill Reduced Pressure Zone	227.7	2.1120	42.4	257.5
J-24	East Hill Pressure Zone	246.0	4.2617	50.3	281.4
J-25	East Hill Pressure Zone	258.2	2.6675	27.4	277.5
J-26	East Hill Pressure Zone	264.3	1.0761	17.7	276.7
J-27	East Hill Pressure Zone	255.1	0.0000	24.8	272.6
J-28	East Hill Pressure Zone	273.5	2.2623	4.0	276.4
J-29	East Hill Pressure Zone	234.6	1.3150	60.4	277.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-30	East Hill Reduced Pressure Zone	224.1	1.7524	44.9	255.8
J-31	East Hill Reduced Pressure Zone	226.7	0.0000	41.1	255.6
J-32	East Hill Reduced Pressure Zone	216.7	4.6990	54.1	254.8
J-33	East Hill Reduced Pressure Zone	218.1	6.2125	51.9	254.6
J-34	East Hill Reduced Pressure Zone	216.3	1.3552	55.1	255.1
J-35	East Hill Reduced Pressure Zone	216.7	3.7033	55.4	255.7
J-36	East Hill Reduced Pressure Zone	217.6	1.7523	54.2	255.8
J-37	East Hill Reduced Pressure Zone	214.6	3.1854	58.4	255.7
J-38	East Hill Reduced Pressure Zone	214.1	0.0000	59.2	255.8
J-39	East Hill Reduced Pressure Zone	214.4	5.2974	59.3	256.2
J-40	East Hill Reduced Pressure Zone	217.2	2.5092	55.6	256.4
J-41	East Hill Reduced Pressure Zone	216.3	0.0000	56.1	255.8
J-42	East Hill Reduced Pressure Zone	217.1	1.9107	55.5	256.2
J-43	East Hill Reduced Pressure Zone	218.0	0.0000	53.9	256.0
J-44	East Hill Reduced Pressure Zone	222.0	0.0000	48.3	256.0
J-45	East Hill Reduced Pressure Zone	223.0	0.4374	47.1	256.2
J-46	East Hill Reduced Pressure Zone	219.2	0.4374	52.6	256.2
J-47	East Hill Reduced Pressure Zone	225.5	0.0000	43.9	256.4
J-48	East Hill Reduced Pressure Zone	225.7	0.0000	44.1	256.7
J-49	East Hill Reduced Pressure Zone	217.8	2.5092	54.9	256.5
J-50	East Hill Reduced Pressure Zone	217.8	0.0000	55.0	256.5
J-51	East Hill Reduced Pressure Zone	220.0	3.4645	51.8	256.5
J-52	East Hill Reduced Pressure Zone	226.6	0.0000	43.1	256.9
J-53	East Hill Reduced Pressure Zone	227.3	0.0000	41.5	256.6
J-54	East Hill Reduced Pressure Zone	216.7	1.8705	56.0	256.2
J-55	East Hill Reduced Pressure Zone	215.9	0.0000	57.1	256.1
J-56	East Hill Reduced Pressure Zone	214.8	0.8373	58.7	256.1
J-57	East Hill Reduced Pressure Zone	211.3	0.7568	63.6	256.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-58	East Hill Reduced Pressure Zone	214.6	0.7568	59.0	256.2
J-59	East Hill Reduced Pressure Zone	223.8	0.0000	45.9	256.1
J-60	East Hill Reduced Pressure Zone	221.3	2.5091	49.4	256.1
J-61	Non-Supply	242.2	0.0000	7.2	247.3
J-64	Non-Supply	238.3	0.0000	13.1	247.5
J-65	Non-Supply	226.6	0.0000	29.9	247.6
J-66	Municipal	213.8	3.1374	48.4	247.9
J-67	Municipal	183.6	0.0000	91.6	248.1
J-68	Municipal	215.8	0.4721	45.5	247.8
J-69	Municipal	216.1	1.3499	45.2	247.9
J-70	Municipal	215.7	1.3181	45.9	248.0
J-71	Municipal	215.8	0.9256	45.7	248.0
J-72	Municipal	213.7	1.0078	48.8	248.0
J-73	Municipal	210.7	0.4721	53.1	248.1
J-74	Municipal	211.3	0.9919	52.4	248.2
J-75	Municipal	213.6	0.9585	49.1	248.2
J-76	Municipal	211.3	0.0000	52.5	248.3
J-77	Municipal	211.7	0.3421	52.0	248.3
J-78	Municipal	213.1	1.2358	50.0	248.3
J-79	Municipal	214.3	1.2677	48.0	248.1
J-80	Municipal	215.6	1.2995	46.1	248.1
J-81	Industrial	217.1	0.7990	73.5	268.9
J-82	Municipal	217.1	0.9441	44.0	248.1
J-83	Municipal	217.7	0.0000	43.2	248.1
J-84	Municipal	216.7	0.3726	44.7	248.2
J-85	Municipal	216.6	0.0000	45.2	248.5
J-86	Municipal	217.6	0.0000	43.9	248.5
J-87	Municipal	214.6	2.5512	48.2	248.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-89	Municipal	215.6	0.7479	46.8	248.6
J-90	Municipal	216.3	1.0554	45.8	248.6
J-91	Municipal	215.8	0.7479	46.2	248.3
J-92	Municipal	214.2	1.0078	48.8	248.6
J-93	Municipal	214.2	1.0396	48.6	248.4
J-94	Municipal	213.3	0.6020	50.1	248.6
J-95	Municipal	180.6	1.7239	96.2	248.4
J-96	Municipal	180.6	0.0000	96.2	248.4
J-97	Municipal	188.7	0.0000	87.1	250.0
J-98	Municipal	190.2	0.0000	84.2	249.5
J-99	Municipal	187.7	1.1696	87.7	249.5
J-100	Municipal	202.4	1.2128	66.4	249.2
J-101	Municipal	204.0	0.0000	64.1	249.1
J-102	Municipal	201.4	0.5702	67.7	249.1
J-103	Municipal	205.6	0.8078	61.7	249.1
J-104	Municipal	180.2	0.0000	96.2	248.0
J-105	Municipal	179.8	0.0000	96.6	247.8
J-106	Municipal	184.1	0.0000	90.5	247.9
J-107	Municipal	182.6	0.0000	92.6	247.8
J-109	East Hill Pressure Zone	226.7	0.0000	71.6	277.2
J-115	Municipal	182.6	0.0000	92.5	247.8
J-116	Municipal	188.2	0.0000	84.4	247.6
J-117	Municipal	189.0	0.0981	83.2	247.6
J-118	Municipal	217.2	0.9441	43.2	247.6
J-119	Municipal	218.6	0.0000	41.2	247.6
J-120	Municipal	217.2	0.6499	43.2	247.6
J-121	Municipal	217.4	1.4134	42.9	247.6
J-122	East Hill Pressure Zone	238.0	0.0000	64.7	283.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-123	East Hill Pressure Zone	240.0	6.2125	61.0	283.0
J-124	Municipal	217.0	0.7957	43.4	247.6
J-125	Municipal	217.0	0.5197	43.4	247.6
J-126	Municipal	216.6	0.4058	44.0	247.6
J-127	Municipal	216.1	1.1856	44.7	247.6
J-128	Municipal	215.3	0.0000	45.9	247.6
J-129	Municipal	212.6	0.0822	49.7	247.6
J-130	Municipal	213.1	0.4217	48.9	247.6
J-131	Municipal	213.6	1.0900	48.2	247.5
J-132	Municipal	213.8	1.5276	47.8	247.5
J-133	Municipal	211.7	0.9096	50.9	247.5
J-134	Municipal	213.6	1.3499	48.1	247.5
J-135	Municipal	211.6	0.1777	51.1	247.6
J-136	Municipal	210.8	0.5197	52.3	247.6
J-137	Municipal	211.4	1.2358	51.3	247.6
J-138	Municipal	211.2	5.7550	51.5	247.5
J-139	Municipal	214.7	1.6920	46.5	247.4
J-140	Municipal	211.8	0.8937	50.6	247.5
J-141	Municipal	212.6	0.0000	49.5	247.5
J-142	Municipal	210.7	1.0238	52.2	247.5
J-143	Municipal	209.8	1.7715	53.5	247.5
J-144	Municipal	211.2	0.9096	51.5	247.5
J-145	Municipal	209.7	2.2914	54.0	247.7
J-146	Municipal	210.2	2.9597	53.0	247.5
J-147	Municipal	209.0	3.2197	54.6	247.4
J-148	Municipal	181.6	0.0000	93.5	247.5
J-149	Municipal	180.4	0.0000	95.7	247.8
J-150	Municipal	177.7	0.0000	99.3	247.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-151	Municipal	178.4	0.5197	98.3	247.7
J-152	Municipal	178.7	0.0000	97.7	247.6
J-153	Municipal	179.6	0.0000	96.4	247.5
J-154	Municipal	178.9	0.3580	97.3	247.5
J-155	Municipal	190.6	3.7394	80.7	247.4
J-156	Municipal	179.4	0.5702	96.7	247.5
J-157	Municipal	178.6	0.5702	97.9	247.5
J-158	Municipal	186.2	1.0079	87.0	247.5
J-159	Municipal	179.6	0.7479	96.4	247.5
J-160	Municipal	187.8	3.6917	84.8	247.5
J-161	Municipal	184.1	0.0000	90.1	247.5
J-162	Municipal	178.3	0.0000	98.3	247.6
J-163	Municipal	187.1	0.0000	85.6	247.4
J-164	Municipal	189.6	3.3974	82.0	247.3
J-165	Municipal	189.8	0.3899	81.7	247.3
J-166	Municipal	189.4	0.2600	82.3	247.4
J-167	Municipal	196.8	0.4879	71.7	247.3
J-168	Municipal	199.6	0.0000	67.7	247.3
J-169	Municipal	204.1	0.0000	61.3	247.3
J-170	Municipal	202.2	0.7957	64.0	247.3
J-171	Municipal	194.7	0.3075	74.7	247.3
J-172	Municipal	190.1	0.3899	81.3	247.4
J-173	Municipal	187.7	0.0000	85.0	247.6
J-176	East Hill Pressure Zone	240.0	0.0000	60.9	282.9
J-177	East Hill Pressure Zone	239.0	6.2124	61.5	282.3
J-178	Municipal	180.6	0.0000	94.9	247.5
J-179	Municipal	202.2	0.0000	64.2	247.5
J-180	Municipal	211.5	0.0000	51.0	247.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-181	Municipal	178.4	0.0000	98.2	247.6
J-182	Municipal	178.1	0.0000	98.7	247.6
J-183	Municipal	178.1	0.0000	98.7	247.6
J-184	Municipal	178.7	0.0000	97.7	247.6
J-185	Municipal	182.1	0.0000	92.9	247.5
J-186	Municipal	187.8	0.0000	84.8	247.5
J-187	Municipal	195.4	0.0000	74.0	247.5
J-188	Municipal	187.3	0.0000	85.4	247.4
J-189	Municipal	188.2	0.0000	84.0	247.4
J-190	Municipal	190.1	0.0000	81.3	247.4
J-191	Municipal	191.7	0.0000	79.0	247.4
J-192	Municipal	202.6	0.0000	63.5	247.4
J-193	Municipal	185.3	1.0741	88.0	247.3
J-194	Municipal	200.0	0.0000	67.1	247.3
J-195	Municipal	201.6	1.6920	64.7	247.2
J-196	Municipal	202.6	2.1455	63.3	247.2
J-197	Municipal	205.1	0.0000	59.8	247.2
J-198	Municipal	200.6	0.0000	66.1	247.2
J-199	Municipal	199.2	0.7479	68.1	247.2
J-200	Municipal	201.6	1.5117	64.7	247.1
J-201	Municipal	203.9	0.0000	61.4	247.1
J-202	Municipal	204.2	0.0000	60.9	247.1
J-203	Municipal	186.6	0.1300	85.9	247.1
J-204	Municipal	186.1	1.0237	86.6	247.1
J-205	Municipal	182.1	0.5702	92.2	247.1
J-206	Municipal	178.8	0.0000	96.9	247.1
J-208	Municipal	188.1	0.3075	83.7	247.1
J-209	Municipal	188.3	0.0000	83.5	247.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-210	Municipal	196.8	0.0000	71.4	247.1
J-211	Municipal	185.2	0.0000	87.8	247.1
J-212	Municipal	183.8	0.9919	89.8	247.1
J-213	Municipal	182.7	0.0000	91.4	247.1
J-214	Municipal	185.6	0.0000	87.3	247.1
J-215	Municipal	186.8	0.4402	85.6	247.1
J-216	Municipal	186.1	0.9601	86.6	247.1
J-217	Municipal	220.4	0.1459	38.6	247.6
J-219	Municipal	218.5	0.0000	41.3	247.6
J-220	Municipal	220.5	0.0000	38.5	247.6
J-223	Spring	188.2	0.0000	47.2	221.4
J-224	Spring	187.3	0.0000	48.5	221.4
J-225	Spring	186.7	0.9256	49.3	221.4
J-226	Spring	185.9	1.5780	50.5	221.4
J-227	Spring	186.1	0.7161	50.2	221.4
J-228	Spring	186.6	1.0078	49.5	221.4
J-229	Spring	186.6	1.5594	49.5	221.4
J-230	Spring	187.4	0.6498	48.3	221.5
J-231	Spring	189.6	1.1059	45.2	221.5
J-232	Spring	186.1	1.5594	50.2	221.5
J-233	Spring	186.4	1.1855	49.8	221.5
J-234	Spring	188.7	1.0238	46.5	221.5
J-235	Spring	194.3	0.0000	38.6	221.5
J-236	Spring	184.1	1.0078	53.0	221.5
J-237	Spring	185.6	0.8097	51.0	221.5
J-238	Spring	187.2	1.0237	48.7	221.5
J-239	Spring	190.1	0.6498	44.6	221.5
J-240	Spring	182.1	0.9919	56.4	221.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-241	Spring	182.6	1.0395	55.6	221.8
J-242	Spring	183.6	0.8460	54.2	221.8
J-243	Spring	185.7	1.8220	51.2	221.8
J-244	Spring	187.9	0.8460	48.0	221.7
J-245	Spring	180.1	0.0000	59.5	222.0
J-246	Spring	180.2	1.0237	59.7	222.3
J-247	Spring	181.2	2.1014	58.6	222.5
J-248	Spring	182.2	0.1140	57.5	222.7
J-249	Spring	185.6	0.9441	52.0	222.3
J-250	Spring	179.9	0.0000	62.2	223.8
J-251	Spring	181.6	0.0000	59.8	223.7
J-252	Spring	183.6	2.9438	57.0	223.7
J-253	Spring	180.1	0.2281	64.0	225.2
J-254	Spring	183.9	1.2358	58.6	225.2
J-255	Spring	178.2	1.1218	71.9	228.8
J-256	Spring	184.1	1.5780	61.3	227.3
J-257	Spring	188.3	1.5117	54.8	226.9
J-258	Spring	182.8	0.7479	66.2	229.4
J-259	Spring	190.6	0.5861	54.3	228.9
J-260	Spring	183.8	1.8538	64.3	229.1
J-261	Spring	190.1	0.0000	55.3	229.1
J-262	Spring	180.6	0.1300	68.8	229.1
J-263	Spring	179.8	0.5516	58.7	221.2
J-264	Spring	182.6	1.3499	55.0	221.3
J-265	Spring	181.8	0.0000	55.2	220.7
J-267	Spring	182.6	0.6816	53.8	220.5
J-268	Spring	184.6	0.3262	50.8	220.4
J-269	Spring	181.3	4.9090	55.5	220.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-270	Spring	180.4	0.5516	57.1	220.7
J-271	Spring	180.8	1.4480	56.0	220.3
J-272	Spring	179.8	2.2118	57.5	220.3
J-273	Spring	179.6	0.0000	57.9	220.4
J-274	Spring	178.8	3.6413	59.1	220.4
J-275	Spring	180.1	0.7638	56.9	220.2
J-276	Spring	179.8	0.7956	57.3	220.2
J-277	Spring	179.1	0.6816	58.3	220.2
J-278	Spring	178.8	4.0471	58.8	220.2
J-279	Spring	177.9	0.0000	60.1	220.2
J-280	Spring	179.5	0.0000	57.7	220.2
J-281	Spring	178.8	0.0000	58.8	220.2
J-282	Spring	186.1	1.0396	48.3	220.1
J-283	Spring	182.6	2.7157	53.3	220.1
J-284	Spring	179.4	1.1059	57.8	220.1
J-285	Spring	179.2	0.6179	58.1	220.1
J-286	Spring	178.9	0.0000	58.6	220.2
J-287	Spring	178.6	0.0000	59.0	220.2
J-288	Spring	178.4	1.8379	59.3	220.2
J-289	Spring	177.9	0.0000	60.1	220.2
J-291	Industrial	189.3	0.0000	113.8	269.5
J-292	Industrial	183.5	17.3320	117.2	266.0
J-293	Industrial	201.7	13.5999	95.8	269.2
J-294	Industrial	211.4	0.0000	81.9	269.1
J-295	Industrial	214.4	20.5092	77.5	269.0
J-296	Industrial	218.6	4.2810	71.5	269.0
J-297	Industrial	214.4	7.8219	77.5	269.0
J-298	Industrial	214.2	1.6767	77.8	269.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-299	Industrial	214.8	4.2810	76.9	269.0
J-300	Industrial	213.8	2.7294	78.5	269.1
J-301	Industrial	214.6	0.0000	77.2	269.0
J-302	Industrial	214.8	29.0334	76.7	268.8
J-303	Industrial	218.6	0.0000	71.5	269.0
J-304	Industrial	222.8	26.5527	63.8	267.7
J-305	Industrial	220.7	0.0000	68.7	269.1
J-306	Industrial	226.2	9.1854	61.1	269.2
J-307	Industrial	219.6	3.3912	70.6	269.3
J-308	Industrial	225.8	0.0000	61.9	269.4
J-309	Industrial	216.7	11.2290	74.3	269.0
J-310	Industrial	217.1	0.3726	74.0	269.3
J-311	Industrial	218.2	0.8395	72.1	269.0
J-312	Industrial	218.0	5.0028	72.4	269.0
J-313	Industrial	220.3	0.0000	69.1	269.0
J-314	Industrial	221.3	0.8775	67.8	269.1
J-315	Industrial	218.7	0.8395	71.2	268.9
J-316	Industrial	217.1	0.6748	73.5	268.9
J-317	Industrial	218.7	0.3266	71.2	268.8
J-318	Industrial	220.4	0.0000	68.7	268.8
J-319	Industrial	219.4	0.6748	70.1	268.8
J-320	Industrial	219.8	0.4913	69.5	268.7
J-321	Industrial	222.4	0.4913	65.8	268.8
J-322	Industrial	224.3	0.4913	63.1	268.8
J-323	Industrial	221.4	0.3266	67.3	268.8
J-324	Industrial	220.6	0.3266	68.4	268.8
J-325	Industrial	226.6	0.3266	60.0	268.8
J-326	Municipal	189.3	0.0000	82.9	247.7

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-327	Municipal	184.6	0.0000	89.6	247.7
J-328	Municipal	178.4	0.0000	100.2	249.0
J-329	Municipal	211.7	0.0000	52.9	249.0
J-330	Municipal	211.8	0.6723	52.7	248.9
J-331	Municipal	214.6	0.0000	48.7	248.9
J-332	Municipal	213.4	0.0000	50.4	248.9
J-333	Spring	178.7	0.0000	68.9	227.2
J-334	Spring	178.2	0.0000	72.2	229.0
J-335	East Hill Pressure Zone	245.9	0.0000	74.2	298.2
J-336	East Hill Pressure Zone	240.2	0.0000	81.2	297.4
J-337	East Hill Pressure Zone	250.6	0.0000	61.8	294.1
J-338	East Hill Pressure Zone	236.0	0.0000	82.0	293.7
J-339	Industrial	219.6	0.0000	69.8	268.8
J-340	Industrial	218.2	0.0000	71.9	268.9
J-341	Municipal	210.6	0.0000	52.4	247.5
J-342	Municipal	211.1	0.0000	51.7	247.6
J-343	Municipal	181.1	0.0000	94.2	247.5
J-344	Municipal	187.5	0.0000	85.1	247.5
J-345	Municipal	189.1	0.0000	82.9	247.5
J-346	Municipal	188.1	0.0000	84.3	247.5
J-347	Municipal	209.6	0.0000	53.7	247.4
J-348	Municipal	206.3	0.0000	58.4	247.5
J-349	Municipal	189.2	0.0000	82.7	247.5
J-351	Municipal	209.5	0.0000	53.9	247.5
J-353	Municipal	216.5	0.0000	43.9	247.5
J-354	Municipal	217.0	0.0000	43.2	247.5
J-355	Municipal	212.0	0.0000	50.3	247.5
J-356	Municipal	200.0	0.0000	67.2	247.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-357	Municipal	200.0	0.0000	67.2	247.4
J-358	Municipal	200.0	0.0000	67.2	247.4
J-359	Municipal	200.0	0.0000	67.5	247.5
J-360	Municipal	202.0	0.0000	64.6	247.5
J-361	Municipal	201.0	0.0000	66.1	247.5
J-362	Municipal	199.0	0.0000	68.9	247.5
J-363	Municipal	205.5	0.0000	59.6	247.5
J-364	Municipal	205.0	0.0000	60.3	247.5
J-366	Municipal	180.0	0.0000	95.8	247.5
J-367	Municipal	185.0	0.0000	88.7	247.5
J-368	Municipal	180.0	0.0000	95.8	247.5
J-369	Municipal	195.0	0.0000	74.5	247.5
J-370	Municipal	195.0	0.0000	74.5	247.5
J-371	Municipal	210.0	0.0000	53.2	247.5
J-372	Municipal	207.5	0.0000	56.7	247.5
J-373	Municipal	200.0	0.0000	67.4	247.5
J-374	Municipal	208.0	0.0000	56.0	247.5
J-375	Municipal	208.0	0.0000	56.0	247.5
J-376	Municipal	205.0	0.0000	60.3	247.5
J-377	Municipal	203.5	0.0000	62.1	247.3
J-378	Municipal	203.5	0.0000	62.1	247.3
J-381	Municipal	180.0	0.0000	95.3	247.1
J-382	Municipal	180.0	0.0000	95.3	247.1
J-383	Municipal	178.0	0.0000	98.4	247.3
J-384	Municipal	185.0	0.0000	88.7	247.5
J-385	Municipal	185.0	0.0000	88.7	247.5
J-386	Spring	185.0	0.0000	50.0	220.2
J-387	Spring	180.5	0.0000	56.4	220.2

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-388	Spring	185.0	0.0000	50.0	220.2
J-389	Spring	185.0	0.0000	50.1	220.3
J-390	Spring	185.0	0.0000	50.1	220.3
J-391	Spring	185.0	0.0000	50.1	220.3
J-392	Municipal	210.0	0.0000	53.2	247.5
J-393	Municipal	206.0	0.0000	58.9	247.5
J-394	Municipal	210.0	0.0000	53.2	247.5
J-395	Municipal	209.8	0.0000	53.8	247.7
J-396	Municipal	206.0	0.0000	59.2	247.7
J-397	Municipal	213.0	0.0000	48.9	247.5
J-398	Municipal	214.0	0.0000	47.5	247.5
J-400	Municipal	220.0	0.0000	39.0	247.5
J-401	Municipal	207.5	0.0000	56.7	247.4
J-402	Municipal	207.5	0.0000	56.7	247.5
J-403	Municipal	214.5	0.0000	46.8	247.5
J-404	Municipal	216.0	0.0000	44.6	247.5
J-405	Municipal	220.0	0.0000	39.0	247.5
J-406	Municipal	210.5	0.0000	52.6	247.6
J-407	Municipal	205.0	0.0000	60.4	247.6
J-408	Municipal	210.0	0.0000	53.3	247.6
J-409	Municipal	212.5	0.0000	49.7	247.5
J-410	Municipal	212.0	0.0000	50.4	247.5
J-411	Municipal	215.0	0.0000	46.2	247.5
J-412	Municipal	214.3	0.0000	47.2	247.5
J-413	Municipal	216.0	0.0000	44.8	247.5
J-414	Municipal	214.5	0.0000	47.0	247.6
J-415	Municipal	213.1	0.0000	49.0	247.6
J-416	Municipal	218.0	0.0000	42.0	247.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-417	Municipal	218.0	0.0000	42.0	247.6
J-418	Municipal	218.0	0.0000	42.0	247.6
J-419	Municipal	218.0	0.2440	42.0	247.6
J-420	Municipal	218.0	0.0000	42.0	247.6
J-421	Municipal	216.0	0.0000	44.9	247.6
J-422	Municipal	216.0	0.0000	44.9	247.6
J-423	Municipal	215.0	0.0000	46.3	247.6
J-424	Municipal	210.0	0.0000	53.4	247.6
J-425	Spring	186.0	0.0000	50.3	221.4
J-426	Municipal	181.5	0.0000	93.9	247.6
J-428	Spring	186.0	0.0000	50.3	221.4
J-429	Spring	185.0	0.0000	51.7	221.4
J-430	Spring	185.0	0.0000	51.7	221.4
J-431	Spring	185.0	0.0000	51.7	221.5
J-432	Spring	190.0	0.0000	44.5	221.3
J-433	Municipal	208.0	0.0000	56.1	247.5
J-434	Municipal	206.0	0.0000	59.0	247.5
J-435	Municipal	219.5	0.0000	39.9	247.6
J-436	Municipal	178.0	0.0000	98.9	247.7
J-437	Spring	178.0	4.0068	72.1	228.8
J-438	Spring	178.0	4.9194	66.2	224.6
J-439	Spring	185.0	0.0000	51.7	221.4
J-440	Spring	187.0	0.0000	48.9	221.4
J-441	Spring	185.0	0.0000	51.7	221.4
J-442	East Hill Reduced Pressure Zone	216.5	0.0000	54.1	254.6
J-443	East Hill Reduced Pressure Zone	216.0	0.0432	54.9	254.6
J-444	East Hill Reduced Pressure Zone	216.0	0.0000	55.1	254.8
J-445	East Hill Reduced Pressure Zone	216.0	0.0000	55.1	254.8

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-446	East Hill Reduced Pressure Zone	216.0	0.0000	55.1	254.8
J-447	East Hill Reduced Pressure Zone	216.5	0.0000	54.4	254.8
J-448	East Hill Reduced Pressure Zone	216.5	0.0000	54.4	254.8
J-449	East Hill Reduced Pressure Zone	217.0	0.0000	54.4	255.3
J-450	East Hill Reduced Pressure Zone	217.0	0.0000	54.4	255.3
J-451	East Hill Reduced Pressure Zone	217.5	0.0000	53.2	255.0
J-452	East Hill Reduced Pressure Zone	217.5	0.0000	53.2	255.0
J-453	East Hill Reduced Pressure Zone	216.5	0.0000	55.7	255.7
J-454	East Hill Reduced Pressure Zone	216.5	0.0000	55.7	255.7
J-455	East Hill Reduced Pressure Zone	216.5	0.0000	55.7	255.7
J-456	East Hill Reduced Pressure Zone	216.0	0.0000	56.4	255.7
J-457	East Hill Reduced Pressure Zone	216.0	0.0000	56.4	255.7
J-458	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-459	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-460	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-461	East Hill Reduced Pressure Zone	215.0	0.0000	58.2	256.0
J-462	East Hill Reduced Pressure Zone	218.0	0.0000	54.4	256.3
J-463	East Hill Reduced Pressure Zone	217.0	0.0000	55.8	256.3
J-464	East Hill Reduced Pressure Zone	217.0	0.0000	56.1	256.5
J-465	East Hill Reduced Pressure Zone	212.0	0.0000	63.2	256.5
J-466	East Hill Reduced Pressure Zone	217.0	0.0000	56.1	256.5
J-467	East Hill Reduced Pressure Zone	212.7	0.0000	62.2	256.5
J-468	East Hill Reduced Pressure Zone	218.0	0.0000	54.6	256.4
J-469	East Hill Reduced Pressure Zone	215.0	0.0000	58.7	256.4
J-470	East Hill Reduced Pressure Zone	214.0	0.0000	60.1	256.4
J-471	East Hill Reduced Pressure Zone	213.7	0.0000	60.3	256.2
J-472	East Hill Reduced Pressure Zone	219.0	0.0000	53.0	256.3
J-473	East Hill Reduced Pressure Zone	217.0	0.0000	55.8	256.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-474	East Hill Reduced Pressure Zone	215.0	0.0000	58.7	256.3
J-475	East Hill Reduced Pressure Zone	194.0	0.0403	72.9	245.3
J-477	Spring	185.0	0.0000	52.7	222.2
J-478	Spring	195.0	0.0000	37.9	221.7
J-479	Spring	192.0	0.0000	42.2	221.7
J-480	Spring	181.0	0.0000	60.7	223.8
J-481	Industrial	231.0	0.0000	53.6	268.8
J-482	Municipal	216.3	0.0000	44.8	247.8
J-483	Municipal	180.0	0.0000	97.3	248.5
J-484	Municipal	179.0	0.0000	98.7	248.6
J-485	Municipal	178.0	0.0000	100.7	248.9
J-486	Municipal	178.0	0.0000	100.7	248.9
J-487	Municipal	179.0	0.0000	99.4	249.0
J-490	Municipal	178.5	0.0000	99.2	248.4
J-491	Municipal	212.5	0.0000	51.1	248.5
J-492	Municipal	213.0	0.0000	50.3	248.5
J-493	Municipal	215.0	0.0000	47.4	248.4
J-495	Municipal	213.0	0.0000	51.0	248.9
J-496	Municipal	214.5	0.0000	48.9	248.9
J-497	Municipal	180.0	4.5414	98.2	249.2
J-498	Municipal	180.0	2.0061	98.2	249.2
J-499	Municipal	180.0	0.0000	98.3	249.2
J-500	Municipal	180.0	0.0000	98.3	249.2
J-501	Municipal	180.0	0.0000	98.3	249.2
J-502	Municipal	207.0	0.0486	59.7	249.1
J-503	Municipal	206.7	0.1188	60.2	249.1
J-504	Municipal	207.5	0.0000	59.0	249.1
J-505	Municipal	212.0	0.0000	52.6	249.1

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-506	Municipal	208.4	0.0000	57.7	249.1
J-507	Municipal	205.5	0.0000	61.8	249.1
J-508	Municipal	213.0	0.0000	51.2	249.0
J-509	Municipal	215.0	0.5130	48.3	249.0
J-510	Municipal	215.5	0.0000	47.6	249.0
J-511	Industrial	213.5	0.0000	78.9	269.1
J-512	Industrial	218.0	0.0000	72.4	269.0
J-514	Industrial	220.0	0.0000	69.6	269.0
J-515	Municipal	214.0	0.0000	47.7	247.6
J-516	Municipal	214.0	0.0000	47.7	247.6
J-517	Municipal	216.0	0.0000	44.9	247.6
J-518	Municipal	216.0	0.0000	44.9	247.6
J-520	Municipal	217.0	0.0000	43.4	247.6
J-521	Municipal	217.0	0.0000	43.4	247.6
J-525	Municipal	178.8	0.0000	97.9	247.8
J-526	Municipal	179.6	0.0000	96.7	247.8
J-527	Spring	182.0	0.0000	56.6	221.9
J-528	Spring	182.0	0.0000	56.6	221.9
J-529	Municipal	179.0	0.0000	97.2	247.5
J-530	Municipal	179.0	0.0000	97.2	247.5
J-531	East Hill Reduced Pressure Zone	213.2	0.0000	61.1	256.2
J-532	East Hill Reduced Pressure Zone	211.0	0.0000	64.2	256.3
J-533	East Hill Reduced Pressure Zone	212.0	0.0000	62.9	256.3
J-534	Municipal	178.0	0.0000	98.7	247.6
J-535	East Hill Pressure Zone	230.0	0.0000	96.2	297.8
J-536	East Hill Pressure Zone	228.4	0.0000	98.5	297.8
J-537	East Hill Reduced Pressure Zone	231.9	0.0000	34.4	256.1
J-538	East Hill Pressure Zone	240.0	0.0000	81.8	297.6

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-539	Municipal	179.0	0.0000	97.5	247.7
J-540	Municipal	178.0	0.0000	98.9	247.7
J-542	Spring	190.5	0.0000	54.8	229.1
J-543	Spring	184.0	0.0000	64.1	229.2
J-544	Municipal	217.0	1.2798	43.8	247.9
J-545	Municipal	217.5	0.0000	43.2	247.9
J-546	Municipal	217.5	0.0000	43.2	247.9
J-547	Industrial	219.0	0.0000	70.7	268.8
J-548	Industrial	219.0	0.4995	70.8	268.9
J-549	Industrial	219.5	0.0000	70.1	268.9
J-550	Industrial	217.0	1.2902	73.6	268.8
J-552	Industrial	217.5	0.0000	73.0	269.0
J-553	Industrial	218.0	0.0000	72.3	268.9
J-554	Municipal	212.0	0.0000	52.4	248.9
J-555	Municipal	178.0	2.8589	100.3	248.7
J-556	Municipal	179.5	0.0000	98.8	249.1
J-557	Municipal	183.0	0.0000	93.8	249.1
J-558	Industrial	215.0	0.0000	77.0	269.2
J-559	East Hill Reduced Pressure Zone	220.0	0.0000	50.8	255.8
J-560	Municipal	217.2	0.0000	43.2	247.6
J-561	Municipal	185.0	0.0000	88.9	247.6
J-562	Industrial	220.3	0.0000	69.1	269.0
J-563	Industrial	218.7	0.8154	71.2	268.9
J-564	Non-Supply	246.0	0.0000	2.2	247.5
J-565	Industrial	179.5	0.0000	131.3	272.0
J-566	Industrial	179.5	0.0000	131.3	272.0
J-567	Industrial	179.5	0.0000	131.3	272.0
J-568	Industrial	179.5	0.0000	131.3	272.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-569	Industrial	179.5	0.0000	129.4	270.7
J-570	Industrial	179.5	0.0000	129.3	270.6
J-571	Industrial	179.5	0.0000	131.3	272.0
J-572	Industrial	179.5	0.0000	129.3	270.6
J-573	Municipal	185.5	0.0000	91.8	250.2
J-574	Municipal	185.5	0.0000	91.8	250.2
J-575	Municipal	185.5	0.0000	91.8	250.2
J-576	Municipal	185.5	0.0000	91.7	250.1
J-578	Municipal	188.5	0.0000	87.4	250.1
J-579	Non-Supply	243.0	0.0000	6.0	247.2
J-580	Non-Supply	243.0	0.0000	6.0	247.2
J-581	East Hill Pressure Zone	243.0	0.0000	79.4	298.9
J-582	East Hill Pressure Zone	243.0	0.0000	79.4	298.9
J-583	East Hill Pressure Zone	243.5	0.0000	68.8	291.9
J-584	East Hill Pressure Zone	243.3	2.1438	68.3	291.4
J-585	Industrial	222.5	0.0000	66.1	269.1
J-586	Industrial	220.6	0.0000	69.1	269.3
J-587	Industrial	221.0	0.0000	68.7	269.4
J-588	Industrial	220.1	0.0000	69.8	269.3
J-589	Industrial	220.4	0.0000	69.4	269.3
J-590	Industrial	224.6	0.0000	63.6	269.4
J-591	Spring	188.3	0.0000	53.8	226.2
J-592	Spring	188.3	0.0000	52.6	225.3
J-593	Spring	188.3	0.0000	52.6	225.3
J-594	Municipal	182.8	0.0000	92.7	248.1
J-595	Industrial	243.3	0.0000	36.6	269.1
J-596	Industrial	229.0	4.5900	56.9	269.1
J-597	East Hill Pressure Zone	229.0	0.0000	82.3	287.0

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-599	East Hill Pressure Zone	252.0	6.6636	60.7	294.8
J-600	East Hill Pressure Zone	244.5	0.0000	67.9	292.3
J-601	Spring	188.7	0.0000	57.3	229.1
J-602	Municipal	181.5	0.0000	93.9	247.6
J-603	Spring	179.2	0.0000	58.5	220.4
J-604	Spring	179.2	0.0000	58.5	220.4
J-605	Spring	186.7	0.0000	49.3	221.4
J-606	Spring	186.7	0.0000	49.3	221.4
J-607	Municipal	212.1	0.0702	52.3	248.9
J-608	Municipal	215.1	0.0000	46.9	248.1
J-609	Municipal	214.4	0.1593	49.1	249.0
J-610	Industrial	225.8	0.0000	62.0	269.5
J-611	Industrial	225.8	0.0000	61.9	269.4
J-612	Municipal	213.0	0.0000	51.0	248.9
J-613	Municipal	213.0	0.5373	51.0	248.9
J-614	East Hill Reduced Pressure Zone	226.0	0.0000	44.8	257.5
J-615	East Hill Reduced Pressure Zone	227.0	0.0000	43.3	257.5
J-616	East Hill Reduced Pressure Zone	226.0	0.0000	44.7	257.5
J-617	East Hill Reduced Pressure Zone	225.0	0.0000	44.3	256.2
J-618	East Hill Reduced Pressure Zone	220.0	0.0000	51.3	256.1
J-620	Municipal	205.1	0.0000	59.8	247.2
J-621	Municipal	219.5	0.0000	39.9	247.6
J-622	Municipal	216.5	0.0000	44.2	247.6
J-623	Municipal	219.5	0.0000	39.9	247.6
J-624	Municipal	216.5	0.0000	44.2	247.6
J-626	Municipal	220.0	0.0000	39.0	247.5
J-627	Municipal	178.4	0.0000	98.2	247.6
J-628	Municipal	186.2	0.0000	87.1	247.5

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-630	Municipal	182.6	0.0000	92.5	247.7
J-631	Spring	184.6	0.0000	52.1	221.3
J-632	Municipal	183.6	0.0000	91.0	247.7
J-633	Municipal	187.3	0.0000	85.7	247.7
J-634	Municipal	190.0	0.0000	81.9	247.7
J-635	Municipal	180.1	0.0000	96.3	248.0
J-639	Industrial	229.0	1.9629	57.3	269.3
J-640	Municipal	182.1	0.0702	93.5	248.0
J-641	Industrial	224.6	0.0000	63.7	269.4
J-642	Industrial	224.6	0.0000	63.7	269.4
J-643	Industrial	224.6	0.0000	63.6	269.4
J-644	Municipal	180.0	0.0000	97.3	248.6
J-645	Industrial	224.6	0.0000	63.6	269.4
J-646	Industrial	224.6	0.0000	63.6	269.4
J-647	Municipal	213.0	0.0000	49.5	247.9
J-648	Municipal	219.5	0.0663	39.9	247.6
J-649	Municipal	218.0	0.0663	42.0	247.6
J-650	Municipal	219.5	0.1140	39.9	247.6
J-651	Municipal	219.5	0.0663	39.9	247.6
J-652	Municipal	218.0	0.1140	42.0	247.6
J-653	Municipal	218.0	0.0663	42.0	247.6
J-654	Municipal	220.9	0.0822	37.9	247.6
J-658	Municipal	220.5	0.0000	38.5	247.6
J-659	Municipal	186.0	0.0000	87.5	247.6
J-661	Municipal	178.4	0.0000	100.2	249.0
J-662	Spring	190.0	0.0000	55.4	229.0
J-663	Municipal	213.8	0.0000	48.4	247.9
J-664	Municipal	196.0	0.0000	72.9	247.4

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-665	Municipal	189.4	0.0000	82.3	247.4
J-666	Municipal	187.0	0.0000	85.7	247.4
J-667	Municipal	187.2	0.0000	85.5	247.4
J-668	Municipal	178.5	0.0000	98.0	247.6
J-669	Non-Supply	245.0	0.0000	3.2	247.2
J-670	Non-Supply	242.0	0.0000	7.5	247.3
J-671	East Hill Pressure Zone	243.8	0.0000	78.1	298.8
J-672	East Hill Pressure Zone	243.0	0.0000	79.4	298.9
J-673	Industrial	187.0	0.0000	118.6	270.6
J-674	Spring	186.3	0.0000	49.7	221.3
J-675	Industrial	221.5	0.4292	67.1	268.7
J-676	Industrial	220.0	0.0000	69.2	268.7
J-677	Industrial	226.9	3.0402	59.3	268.7
J-678	Industrial	221.4	0.0000	67.2	268.7
J-679	Municipal	214.4	0.0000	47.1	247.6
J-680	Municipal	214.3	0.0000	47.3	247.6
J-681	Municipal	213.1	0.1459	49.0	247.6
J-682	Municipal	214.9	0.0000	48.3	249.0
J-683	Municipal	218.0	0.0000	42.0	247.6
J-684	East Hill Pressure Zone	234.5	12.7953	58.2	275.5
J-685	East Hill Pressure Zone	242.0	0.0000	56.4	281.7
J-687	Spring	188.6	0.0000	57.3	229.0
J-688	Spring	192.0	0.0000	52.5	229.0
J-689	Industrial	192.0	(N/A)	(N/A)	(N/A)
J-690	Industrial	211.0	(N/A)	(N/A)	(N/A)
J-691	Industrial	185.0	33.7554	107.8	261.0
J-692	Industrial	214.0	88.9758	70.8	263.9
J-693	Industrial	222.0	0.0000	64.3	267.3

FlexTable: Junction Table Report

Label	Zone	Elevation (m)	Demand (L/s)	Pressure (psi)	Hydraulic Grade (m)
J-694	Industrial	237.0	14.9607	44.0	268.0
J-695	East Hill Pressure Zone	237.0	13.0410	53.5	274.7
J-696	East Hill Pressure Zone	242.0	21.4434	46.6	274.8
J-697	East Hill Pressure Zone	242.0	82.2852	43.0	272.3
J-698	Industrial	189.0	8.4429	109.5	266.1
J-699	Industrial	200.0	82.4931	87.9	261.9
J-700	Municipal	200.0	0.0000	87.9	261.9
J-701	Industrial	201.7	0.0000	95.3	268.8
J-702	Spring	185.9	0.0000	50.5	221.4
J-703	Spring	185.9	0.0000	50.5	221.4
J-704	Spring	189.6	0.0000	45.2	221.5
J-705	Spring	189.6	0.0000	45.2	221.5
J-706	Industrial	234.0	0.0000	50.6	269.6
J-707	Industrial	238.0	0.0000	45.2	269.8
J-708	Industrial	236.0	3.9258	47.7	269.6
J-709	East Hill Pressure Zone	230.0	0.0000	67.5	277.6
J-710	Industrial	210.0	0.8910	83.8	269.0
J-711	Industrial	230.0	0.0000	57.6	270.6
J-712	Industrial	251.0	0.0000	29.6	271.9
J-713	Municipal	216.0	0.3750	46.9	249.0
J-714	Municipal	209.0	0.1680	56.8	249.0
J-715	Municipal	209.5	0.0000	56.1	249.0
J-716	Municipal	208.5	0.1680	57.5	249.0
J-717	Municipal	208.0	0.1680	58.3	249.0
J-718	Municipal	204.0	0.1680	63.9	249.0
J-719	Municipal	202.0	0.1680	66.8	249.1
J-720	Municipal	209.5	0.3750	56.1	249.0



BURNSIDE

Ultimate Plan – MDD plus Fire Flow

Ultimate Plan - MDD plus Fire Flow

Scenario Summary

<General>	
Scenario Id	94
Scenario Label	17 - ULTIMATE - MDD (1.8*ADD)
Scenario Notes	Created: 11/29/06 03:09:05 PM
Calculation Options ID	74
Calculation Options Label	17 - ULTIMATE - MDD
Calculation Options Notes	
Friction Method	Hazen-Williams
Calculation Type	Fire Flow

Alternatives	
Active Topology	1945: 2026 and Beyond - with future pumps and storage
Physical	1929: 2026 and Beyond Upgrades
Demand	1914: Ultimate - MDD (1.8*ADD)
Initial Settings	1931: Ultimate - with future pumps on
Operational	49: Base-Operational
Age	50: Base-Age Alternative
Constituent	51: Base-Constituent
Trace	52: Base-Trace Alternative
Fire Flow	53: Base-Fire Flow
Energy Cost	54: Base-Energy Cost
Pressure Dependent Demand	55: Base Pressure Dependent Demand
User Data Extensions	56: Base-User Data

Calculation Flags	
Display Status Messages?	True
Display Calculation Flags?	True
Display Time Step Convergence Info?	True

Scenario Summary

Calculation Times

Base Date	10/12/2007
Use Simple Controls?	True
Is EPS Snapshot?	False
Start Time	12:00:00 AM

Hydraulics

Use Linear Interpolation For Multipoint Pumps?	False
Trials	200
Accuracy	0.001
Emitter Exponent	0.500
Liquid Label	Water at 20C(68F)
Liquid Kinematic Viscosity	1.004e-006 m ² /s
Liquid Specific Gravity	0.998
Use Pressure Dependent Demand?	False

Ultimate Plan - MDD plus Fire Flow

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-2	East Hill Pressure Zone	227.0000	0.0000	69.6	J-28	20.0
J-3	East Hill Pressure Zone	227.0000	0.0000	71.4	J-28	20.0
J-4	East Hill Pressure Zone	227.0000	0.0000	73.8	J-28	20.0
J-5	East Hill Pressure Zone	227.0000	0.0000	75.7	J-28	20.0
J-6	East Hill Pressure Zone	227.0000	0.0000	81.4	J-28	20.0
J-7	East Hill Reduced Pressure Zone	227.0000	173.1127	23.0	J-537	20.0
J-8	East Hill Pressure Zone	227.0000	0.0000	74.0	J-28	20.0
J-9	East Hill Pressure Zone	227.0000	0.0000	81.4	J-28	20.0
J-10	East Hill Pressure Zone	227.0000	0.0000	96.6	J-28	20.0
J-11	East Hill Pressure Zone	227.0000	0.0000	93.2	J-28	20.0
J-12	East Hill Pressure Zone	227.0000	0.0000	86.8	J-28	20.0
J-13	East Hill Pressure Zone	227.0000	0.0000	84.4	J-28	20.0
J-14	East Hill Pressure Zone	227.0000	0.0000	73.9	J-28	20.0
J-15	East Hill Pressure Zone	227.0000	0.0000	89.7	J-28	20.0
J-16	East Hill Pressure Zone	227.0000	0.0000	71.0	J-28	20.0
J-17	East Hill Pressure Zone	227.0000	0.0000	70.3	J-28	20.0
J-18	East Hill Pressure Zone	227.0000	0.0000	94.5	J-28	20.0
J-19	East Hill Pressure Zone	227.0000	0.0000	79.9	J-28	20.0
J-20	East Hill Reduced Pressure Zone	227.0000	225.3345	20.0	J-615	20.0
J-21	East Hill Pressure Zone	227.0000	0.0000	62.6	J-28	20.0
J-22	East Hill Pressure Zone	227.0000	0.0000	75.4	J-28	20.0
J-23	East Hill Reduced Pressure Zone	227.0000	160.2517	20.0	J-614	20.0
J-24	East Hill Pressure Zone	227.0000	0.0000	59.1	J-28	20.0
J-25	East Hill Pressure Zone	227.0000	0.0000	40.3	J-28	20.0
J-26	East Hill Pressure Zone	227.0000	0.0000	31.2	J-28	20.0
J-27	East Hill Pressure Zone	227.0000	0.0000	42.2	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-28	East Hill Pressure Zone	227.0000	0.0000	17.9	J-26	20.0
J-29	East Hill Pressure Zone	227.0000	0.0000	73.9	J-28	20.0
J-30	East Hill Reduced Pressure Zone	227.0000	96.4294	23.1	J-31	20.0
J-31	East Hill Reduced Pressure Zone	227.0000	72.1048	20.0	J-537	20.0
J-32	East Hill Reduced Pressure Zone	227.0000	55.9551	22.1	J-33	20.0
J-33	East Hill Reduced Pressure Zone	227.0000	45.2437	20.0	J-442	20.0
J-34	East Hill Reduced Pressure Zone	227.0000	69.4522	22.9	J-33	20.0
J-35	East Hill Reduced Pressure Zone	227.0000	119.5071	21.4	J-31	20.0
J-36	East Hill Reduced Pressure Zone	227.0000	112.6378	24.2	J-31	20.0
J-37	East Hill Reduced Pressure Zone	227.0000	92.8471	22.0	J-456	20.0
J-38	East Hill Reduced Pressure Zone	227.0000	108.4492	20.0	J-457	20.0
J-39	East Hill Reduced Pressure Zone	227.0000	125.6482	20.0	J-471	20.0
J-40	East Hill Reduced Pressure Zone	227.0000	209.6639	20.6	J-47	20.0
J-41	East Hill Reduced Pressure Zone	227.0000	121.9535	20.0	J-31	20.0
J-42	East Hill Reduced Pressure Zone	227.0000	143.5892	20.0	J-47	20.0
J-43	East Hill Reduced Pressure Zone	227.0000	103.3262	20.0	J-44	20.0
J-44	East Hill Reduced Pressure Zone	227.0000	95.4688	20.0	J-537	20.0
J-45	East Hill Reduced Pressure Zone	227.0000	105.6925	20.0	J-44	20.0
J-46	East Hill Reduced Pressure Zone	227.0000	127.2698	20.0	J-47	20.0
J-47	East Hill Reduced Pressure Zone	227.0000	110.4043	20.0	J-537	20.0
J-48	East Hill Reduced Pressure Zone	227.0000	132.5727	20.0	J-47	20.0
J-49	East Hill Reduced Pressure Zone	227.0000	263.0603	20.0	J-47	20.0
J-50	East Hill Reduced Pressure Zone	227.0000	298.2100	20.0	J-464	20.0
J-51	East Hill Reduced Pressure Zone	227.0000	334.9489	20.0	J-53	20.0
J-52	East Hill Reduced Pressure Zone	227.0000	200.9159	20.0	J-537	20.0
J-53	East Hill Reduced Pressure Zone	227.0000	347.1824	20.0	J-537	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-54	East Hill Reduced Pressure Zone	227.0000	141.1986	20.0	J-617	20.0
J-55	East Hill Reduced Pressure Zone	227.0000	119.3892	23.7	J-537	20.0
J-56	East Hill Reduced Pressure Zone	227.0000	159.2419	29.1	J-537	20.0
J-57	East Hill Reduced Pressure Zone	227.0000	110.6144	20.0	J-537	20.0
J-58	East Hill Reduced Pressure Zone	227.0000	94.3112	20.0	J-537	20.0
J-59	East Hill Reduced Pressure Zone	227.0000	76.8785	31.5	J-537	20.0
J-60	East Hill Reduced Pressure Zone	227.0000	119.9752	23.7	J-537	20.0
J-61	Non-Supply	227.0000	0.0000	7.7	J-564	20.0
J-64	Non-Supply	227.0000	0.0000	13.8	J-564	20.0
J-65	Non-Supply	227.0000	0.0000	32.4	J-564	20.0
J-66	Municipal	227.0000	500.0000	37.4	J-654	20.0
J-67	Municipal	227.0000	500.0000	80.0	J-654	20.0
J-68	Municipal	227.0000	106.4500	20.7	J-482	20.0
J-69	Municipal	227.0000	77.9569	22.0	J-545	20.0
J-70	Municipal	227.0000	127.9898	20.0	J-545	20.0
J-71	Municipal	227.0000	155.3601	20.0	J-608	20.0
J-72	Municipal	227.0000	212.2535	20.0	J-73	20.0
J-73	Municipal	227.0000	114.1935	20.0	J-654	20.0
J-74	Municipal	227.0000	266.0865	20.0	J-75	20.0
J-75	Municipal	227.0000	242.6031	20.0	J-79	20.0
J-76	Municipal	227.0000	311.4098	20.0	J-74	20.0
J-77	Municipal	227.0000	228.6161	20.0	J-78	20.0
J-78	Municipal	227.0000	220.6515	20.0	J-91	20.0
J-79	Municipal	227.0000	200.2660	20.0	J-608	20.0
J-80	Municipal	227.0000	138.5668	20.8	J-82	20.0
J-81	Industrial	227.0000	169.6469	39.3	J-481	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-82	Municipal	227.0000	81.5362	20.0	J-83	20.0
J-83	Municipal	227.0000	77.4316	20.0	J-82	20.0
J-84	Municipal	227.0000	103.2653	20.0	J-83	20.0
J-85	Municipal	227.0000	115.7983	20.0	J-86	20.0
J-86	Municipal	227.0000	92.1768	20.0	J-85	20.0
J-87	Municipal	227.0000	147.7220	20.0	J-86	20.0
J-89	Municipal	227.0000	193.7529	20.5	J-86	20.0
J-90	Municipal	227.0000	253.3635	20.0	J-86	20.0
J-91	Municipal	227.0000	182.3851	20.0	J-78	20.0
J-92	Municipal	227.0000	202.1455	20.0	J-493	20.0
J-93	Municipal	227.0000	98.3460	21.2	J-493	20.0
J-94	Municipal	227.0000	148.7690	20.0	J-492	20.0
J-95	Municipal	227.0000	500.0000	73.9	J-654	20.0
J-96	Municipal	227.0000	500.0000	84.5	J-654	20.0
J-97	Municipal	227.0000	500.0000	73.7	J-654	20.0
J-98	Municipal	227.0000	188.6932	32.6	J-510	20.0
J-99	Municipal	227.0000	162.2427	20.0	J-557	20.0
J-100	Municipal	227.0000	140.3719	26.8	J-510	20.0
J-101	Municipal	227.0000	133.5731	27.6	J-510	20.0
J-102	Municipal	227.0000	127.8767	30.4	J-510	20.0
J-103	Municipal	227.0000	123.8206	27.6	J-510	20.0
J-104	Municipal	227.0000	500.0000	79.7	J-654	20.0
J-105	Municipal	227.0000	420.3726	77.2	J-400	20.0
J-106	Municipal	227.0000	338.3288	71.2	J-654	20.0
J-107	Municipal	227.0000	244.0305	74.3	J-654	20.0
J-109	East Hill Pressure Zone	227.0000	0.0000	85.1	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-115	Municipal	227.0000	209.5720	74.3	J-654	20.0
J-116	Municipal	227.0000	124.8727	66.4	J-654	20.0
J-117	Municipal	227.0000	122.9596	65.4	J-654	20.0
J-118	Municipal	227.0000	98.3570	25.3	J-654	20.0
J-119	Municipal	227.0000	89.3806	21.3	J-650	20.0
J-120	Municipal	227.0000	112.7195	20.0	J-650	20.0
J-121	Municipal	227.0000	96.8360	20.0	J-650	20.0
J-122	East Hill Pressure Zone	227.0000	0.0000	74.3	J-28	20.0
J-123	East Hill Pressure Zone	227.0000	0.0000	71.0	J-28	20.0
J-124	Municipal	227.0000	119.8830	22.5	J-650	20.0
J-125	Municipal	227.0000	77.2842	20.0	J-418	20.0
J-126	Municipal	227.0000	88.0986	20.0	J-125	20.0
J-127	Municipal	227.0000	116.8541	20.0	J-650	20.0
J-128	Municipal	227.0000	124.4814	25.8	J-654	20.0
J-129	Municipal	227.0000	134.5035	22.1	J-413	20.0
J-130	Municipal	227.0000	91.3622	21.7	J-413	20.0
J-131	Municipal	227.0000	79.4274	23.4	J-413	20.0
J-132	Municipal	227.0000	86.3599	20.0	J-405	20.0
J-133	Municipal	227.0000	103.1883	22.2	J-626	20.0
J-134	Municipal	227.0000	79.8562	29.1	J-626	20.0
J-135	Municipal	227.0000	137.3974	24.8	J-626	20.0
J-136	Municipal	227.0000	154.9812	22.3	J-405	20.0
J-137	Municipal	227.0000	87.9239	20.0	J-406	20.0
J-138	Municipal	227.0000	115.5134	20.0	J-398	20.0
J-139	Municipal	227.0000	65.5061	20.0	J-400	20.0
J-140	Municipal	227.0000	87.0539	24.5	J-400	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-141	Municipal	227.0000	64.0445	30.6	J-400	20.0
J-142	Municipal	227.0000	92.3948	24.5	J-400	20.0
J-143	Municipal	227.0000	110.6517	20.5	J-400	20.0
J-144	Municipal	227.0000	109.6999	21.3	J-400	20.0
J-145	Municipal	227.0000	295.7085	32.0	J-400	20.0
J-146	Municipal	227.0000	125.7313	20.0	J-392	20.0
J-147	Municipal	227.0000	104.1298	20.0	J-401	20.0
J-148	Municipal	227.0000	145.1529	52.5	J-147	20.0
J-149	Municipal	227.0000	371.3740	76.2	J-400	20.0
J-150	Municipal	227.0000	320.7910	33.9	J-354	20.0
J-151	Municipal	227.0000	305.0314	74.1	J-354	20.0
J-152	Municipal	227.0000	199.2131	52.4	J-354	20.0
J-153	Municipal	227.0000	157.9178	55.2	J-354	20.0
J-154	Municipal	227.0000	101.4674	70.1	J-354	20.0
J-155	Municipal	227.0000	85.8598	52.2	J-354	20.0
J-156	Municipal	227.0000	117.1350	69.6	J-354	20.0
J-157	Municipal	227.0000	186.0466	57.4	J-354	20.0
J-158	Municipal	227.0000	172.5561	42.5	J-354	20.0
J-159	Municipal	227.0000	200.3149	62.7	J-354	20.0
J-160	Municipal	227.0000	259.1674	47.3	J-354	20.0
J-161	Municipal	227.0000	260.8518	57.8	J-354	20.0
J-162	Municipal	227.0000	271.5061	69.0	J-354	20.0
J-163	Municipal	227.0000	183.6959	31.8	J-192	20.0
J-164	Municipal	227.0000	146.3956	37.0	J-192	20.0
J-165	Municipal	227.0000	154.4290	33.6	J-169	20.0
J-166	Municipal	227.0000	178.5531	29.9	J-169	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-167	Municipal	227.0000	121.9074	23.2	J-169	20.0
J-168	Municipal	227.0000	101.1444	22.1	J-169	20.0
J-169	Municipal	227.0000	96.4643	20.1	J-378	20.0
J-170	Municipal	227.0000	122.8844	20.0	J-169	20.0
J-171	Municipal	227.0000	148.5425	20.0	J-169	20.0
J-172	Municipal	227.0000	174.3154	35.9	J-197	20.0
J-173	Municipal	227.0000	271.0608	47.1	J-354	20.0
J-176	East Hill Pressure Zone	227.0000	0.0000	71.0	J-28	20.0
J-177	East Hill Pressure Zone	227.0000	0.0000	72.0	J-28	20.0
J-178	Municipal	227.0000	82.6042	70.5	J-354	20.0
J-179	Municipal	227.0000	70.3661	41.1	J-354	20.0
J-180	Municipal	227.0000	23.4621	27.8	J-354	20.0
J-181	Municipal	227.0000	240.7796	28.7	J-354	20.0
J-182	Municipal	227.0000	280.4429	59.1	J-354	20.0
J-183	Municipal	227.0000	283.7361	72.2	J-354	20.0
J-184	Municipal	227.0000	265.6206	67.3	J-354	20.0
J-185	Municipal	227.0000	229.1539	59.5	J-354	20.0
J-186	Municipal	227.0000	226.3099	42.8	J-354	20.0
J-187	Municipal	227.0000	257.4476	29.4	J-360	20.0
J-188	Municipal	227.0000	189.8314	37.2	J-192	20.0
J-189	Municipal	227.0000	142.3978	38.6	J-192	20.0
J-190	Municipal	227.0000	110.7786	28.4	J-664	20.0
J-191	Municipal	227.0000	97.8632	35.5	J-192	20.0
J-192	Municipal	227.0000	66.2056	20.0	J-357	20.0
J-193	Municipal	227.0000	135.5358	34.3	J-202	20.0
J-194	Municipal	227.0000	140.5341	20.0	J-197	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-195	Municipal	227.0000	115.3433	20.1	J-198	20.0
J-196	Municipal	227.0000	106.1299	23.6	J-197	20.0
J-197	Municipal	227.0000	96.7385	20.0	J-620	20.0
J-198	Municipal	227.0000	108.8044	20.1	J-195	20.0
J-199	Municipal	227.0000	93.5264	20.1	J-200	20.0
J-200	Municipal	227.0000	92.9944	20.1	J-201	20.0
J-201	Municipal	227.0000	68.9729	20.1	J-202	20.0
J-202	Municipal	227.0000	65.4828	20.1	J-201	20.0
J-203	Municipal	227.0000	84.0206	26.3	J-202	20.0
J-204	Municipal	227.0000	79.7508	29.2	J-202	20.0
J-205	Municipal	227.0000	77.2037	33.6	J-202	20.0
J-206	Municipal	227.0000	67.9739	20.0	J-202	20.0
J-208	Municipal	227.0000	76.7826	28.5	J-202	20.0
J-209	Municipal	227.0000	74.2895	30.8	J-202	20.0
J-210	Municipal	227.0000	72.3042	20.9	J-202	20.0
J-211	Municipal	227.0000	76.7688	32.4	J-202	20.0
J-212	Municipal	227.0000	76.8120	34.0	J-202	20.0
J-213	Municipal	227.0000	76.8119	30.0	J-202	20.0
J-214	Municipal	227.0000	75.8738	28.2	J-202	20.0
J-215	Municipal	227.0000	74.6883	20.1	J-202	20.0
J-216	Municipal	227.0000	76.6114	22.3	J-202	20.0
J-217	Municipal	227.0000	73.4312	20.0	J-654	20.0
J-219	Municipal	227.0000	76.1639	22.0	J-220	20.0
J-220	Municipal	227.0000	76.1167	20.0	J-435	20.0
J-223	Spring	227.0000	276.9039	22.7	J-235	20.0
J-224	Spring	227.0000	248.0275	25.0	J-235	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-225	Spring	227.0000	206.5464	26.8	J-235	20.0
J-226	Spring	227.0000	166.9941	29.3	J-235	20.0
J-227	Spring	227.0000	157.3069	27.7	J-235	20.0
J-228	Spring	227.0000	87.9168	20.0	J-439	20.0
J-229	Spring	227.0000	152.3585	26.8	J-235	20.0
J-230	Spring	227.0000	148.4472	27.9	J-235	20.0
J-231	Spring	227.0000	101.3725	20.0	J-705	20.0
J-232	Spring	227.0000	138.8959	27.2	J-235	20.0
J-233	Spring	227.0000	139.5475	29.4	J-235	20.0
J-234	Spring	227.0000	107.0565	24.6	J-235	20.0
J-235	Spring	227.0000	63.0205	20.0	J-478	20.0
J-236	Spring	227.0000	138.7306	30.4	J-478	20.0
J-237	Spring	227.0000	135.3769	31.4	J-478	20.0
J-238	Spring	227.0000	128.6406	28.8	J-478	20.0
J-239	Spring	227.0000	120.5417	24.0	J-478	20.0
J-240	Spring	227.0000	94.2655	20.0	J-527	20.0
J-241	Spring	227.0000	133.2661	30.8	J-478	20.0
J-242	Spring	227.0000	123.2014	29.1	J-478	20.0
J-243	Spring	227.0000	89.5592	31.5	J-478	20.0
J-244	Spring	227.0000	83.2886	29.6	J-478	20.0
J-245	Spring	227.0000	133.0383	28.2	J-282	20.0
J-246	Spring	227.0000	142.0530	28.2	J-478	20.0
J-247	Spring	227.0000	140.1197	33.7	J-478	20.0
J-248	Spring	227.0000	138.5159	34.7	J-478	20.0
J-249	Spring	227.0000	92.1582	20.0	J-478	20.0
J-250	Spring	227.0000	139.4876	21.6	J-480	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-251	Spring	227.0000	153.2162	31.1	J-478	20.0
J-252	Spring	227.0000	151.8341	31.5	J-478	20.0
J-253	Spring	227.0000	151.0734	20.0	J-438	20.0
J-254	Spring	227.0000	144.2365	20.0	J-478	20.0
J-255	Spring	227.0000	196.1942	20.0	J-478	20.0
J-256	Spring	227.0000	228.3144	27.2	J-478	20.0
J-257	Spring	227.0000	199.2494	20.0	J-591	20.0
J-258	Spring	227.0000	385.8813	33.1	J-688	20.0
J-259	Spring	227.0000	159.2749	20.0	J-688	20.0
J-260	Spring	227.0000	197.7301	25.8	J-261	20.0
J-261	Spring	227.0000	147.4473	20.0	J-601	20.0
J-262	Spring	227.0000	154.0893	22.1	J-601	20.0
J-263	Spring	227.0000	92.3970	28.7	J-282	20.0
J-264	Spring	227.0000	100.9411	30.5	J-432	20.0
J-265	Spring	227.0000	86.2576	21.2	J-282	20.0
J-267	Spring	227.0000	74.7711	20.0	J-282	20.0
J-268	Spring	227.0000	66.7131	20.0	J-282	20.0
J-269	Spring	227.0000	75.5474	23.7	J-282	20.0
J-270	Spring	227.0000	80.9379	26.9	J-282	20.0
J-271	Spring	227.0000	64.2107	26.0	J-389	20.0
J-272	Spring	227.0000	69.9969	27.1	J-282	20.0
J-273	Spring	227.0000	72.3032	27.5	J-282	20.0
J-274	Spring	227.0000	73.9419	26.1	J-282	20.0
J-275	Spring	227.0000	56.8104	27.0	J-386	20.0
J-276	Spring	227.0000	57.3882	28.7	J-282	20.0
J-277	Spring	227.0000	62.2803	28.4	J-282	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-278	Spring	227.0000	64.5206	27.8	J-282	20.0
J-279	Spring	227.0000	65.7038	26.3	J-282	20.0
J-280	Spring	227.0000	60.0671	28.2	J-282	20.0
J-281	Spring	227.0000	62.7056	28.3	J-282	20.0
J-282	Spring	227.0000	44.7892	20.1	J-283	20.0
J-283	Spring	227.0000	48.6839	23.3	J-282	20.0
J-284	Spring	227.0000	55.6492	28.7	J-282	20.0
J-285	Spring	227.0000	54.1248	22.1	J-282	20.0
J-286	Spring	227.0000	59.0848	28.8	J-282	20.0
J-287	Spring	227.0000	62.3288	28.1	J-282	20.0
J-288	Spring	227.0000	63.7221	27.0	J-282	20.0
J-289	Spring	227.0000	65.1047	24.3	J-282	20.0
J-291	Industrial	227.0000	367.5765	90.4	J-595	20.0
J-292	Industrial	227.0000	340.6257	20.0	J-595	20.0
J-293	Industrial	227.0000	365.3778	72.6	J-595	20.0
J-294	Industrial	227.0000	361.4040	59.1	J-595	20.0
J-295	Industrial	227.0000	359.4662	54.9	J-595	20.0
J-296	Industrial	227.0000	357.7367	51.0	J-595	20.0
J-297	Industrial	227.0000	262.1311	20.0	J-595	20.0
J-298	Industrial	227.0000	354.7218	41.3	J-595	20.0
J-299	Industrial	227.0000	351.4112	45.1	J-595	20.0
J-300	Industrial	227.0000	344.9221	32.7	J-595	20.0
J-301	Industrial	227.0000	337.2462	45.1	J-595	20.0
J-302	Industrial	227.0000	316.4120	37.0	J-595	20.0
J-303	Industrial	227.0000	357.5772	51.1	J-595	20.0
J-304	Industrial	227.0000	364.9594	22.4	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-305	Industrial	227.0000	356.3261	48.8	J-595	20.0
J-306	Industrial	227.0000	355.9353	42.2	J-595	20.0
J-307	Industrial	227.0000	356.3925	52.8	J-595	20.0
J-308	Industrial	227.0000	358.8985	44.8	J-595	20.0
J-309	Industrial	227.0000	264.3017	54.6	J-595	20.0
J-310	Industrial	227.0000	305.6965	50.9	J-595	20.0
J-311	Industrial	227.0000	260.5974	42.4	J-595	20.0
J-312	Industrial	227.0000	262.3523	28.3	J-595	20.0
J-313	Industrial	227.0000	262.9050	30.0	J-595	20.0
J-314	Industrial	227.0000	236.6437	51.2	J-595	20.0
J-315	Industrial	227.0000	172.6135	32.5	J-481	20.0
J-316	Industrial	227.0000	168.1730	39.5	J-481	20.0
J-317	Industrial	227.0000	146.9240	36.2	J-481	20.0
J-318	Industrial	227.0000	117.3151	28.5	J-481	20.0
J-319	Industrial	227.0000	106.3594	28.6	J-677	20.0
J-320	Industrial	227.0000	82.9692	30.1	J-677	20.0
J-321	Industrial	227.0000	90.4524	28.0	J-481	20.0
J-322	Industrial	227.0000	78.1812	29.5	J-481	20.0
J-323	Industrial	227.0000	102.5694	27.4	J-481	20.0
J-324	Industrial	227.0000	105.7241	30.9	J-481	20.0
J-325	Industrial	227.0000	134.7098	20.0	J-481	20.0
J-326	Municipal	227.0000	136.0186	64.2	J-654	20.0
J-327	Municipal	227.0000	193.5874	54.1	J-405	20.0
J-328	Municipal	227.0000	500.0000	88.0	J-654	20.0
J-329	Municipal	227.0000	498.6420	22.4	J-331	20.0
J-330	Municipal	227.0000	431.8842	22.5	J-331	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-331	Municipal	227.0000	375.8281	20.0	J-496	20.0
J-332	Municipal	227.0000	231.6622	20.0	J-496	20.0
J-333	Spring	227.0000	181.2637	20.0	J-478	20.0
J-334	Spring	227.0000	195.6948	20.0	J-437	20.0
J-335	East Hill Pressure Zone	227.0000	0.0000	71.2	J-28	20.0
J-336	East Hill Pressure Zone	227.0000	0.0000	78.9	J-28	20.0
J-337	East Hill Pressure Zone	227.0000	0.0000	63.7	J-28	20.0
J-338	East Hill Pressure Zone	227.0000	0.0000	84.1	J-28	20.0
J-339	Industrial	227.0000	103.6084	20.0	J-677	20.0
J-340	Industrial	227.0000	171.5236	33.7	J-481	20.0
J-341	Municipal	227.0000	101.9089	20.1	J-433	20.0
J-342	Municipal	227.0000	122.1798	20.0	J-138	20.0
J-343	Municipal	227.0000	147.5108	53.2	J-147	20.0
J-344	Municipal	227.0000	138.2047	43.2	J-147	20.0
J-345	Municipal	227.0000	135.7847	23.7	J-348	20.0
J-346	Municipal	227.0000	139.6603	29.2	J-147	20.0
J-347	Municipal	227.0000	99.1203	20.1	J-147	20.0
J-348	Municipal	227.0000	99.5796	20.0	J-402	20.0
J-349	Municipal	227.0000	117.4056	24.9	J-348	20.0
J-351	Municipal	227.0000	22.6189	20.1	J-354	20.0
J-353	Municipal	227.0000	22.1018	20.1	J-354	20.0
J-354	Municipal	227.0000	21.7641	20.1	J-353	20.0
J-355	Municipal	227.0000	22.9208	26.1	J-354	20.0
J-356	Municipal	227.0000	58.1477	20.0	J-192	20.0
J-357	Municipal	227.0000	47.3930	20.0	J-358	20.0
J-358	Municipal	227.0000	41.7453	20.0	J-357	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-359	Municipal	227.0000	83.7931	22.9	J-360	20.0
J-360	Municipal	227.0000	62.6334	20.0	J-361	20.0
J-361	Municipal	227.0000	51.5878	20.0	J-362	20.0
J-362	Municipal	227.0000	51.5878	22.5	J-361	20.0
J-363	Municipal	227.0000	59.9054	20.0	J-364	20.0
J-364	Municipal	227.0000	50.3391	20.0	J-363	20.0
J-366	Municipal	227.0000	80.1023	71.3	J-354	20.0
J-367	Municipal	227.0000	75.9103	20.0	J-354	20.0
J-368	Municipal	227.0000	76.2766	71.4	J-354	20.0
J-369	Municipal	227.0000	74.0853	50.3	J-354	20.0
J-370	Municipal	227.0000	74.0761	33.1	J-354	20.0
J-371	Municipal	227.0000	25.0496	30.0	J-354	20.0
J-372	Municipal	227.0000	47.5175	33.5	J-354	20.0
J-373	Municipal	227.0000	45.5526	20.0	J-354	20.0
J-374	Municipal	227.0000	47.5222	23.7	J-354	20.0
J-375	Municipal	227.0000	47.2477	20.0	J-354	20.0
J-376	Municipal	227.0000	46.8620	20.0	J-354	20.0
J-377	Municipal	227.0000	93.0435	20.1	J-378	20.0
J-378	Municipal	227.0000	66.8560	20.1	J-377	20.0
J-381	Municipal	227.0000	81.2957	29.0	J-202	20.0
J-382	Municipal	227.0000	82.7662	25.2	J-202	20.0
J-383	Municipal	227.0000	84.4609	20.0	J-654	20.0
J-384	Municipal	227.0000	131.9496	20.0	J-385	20.0
J-385	Municipal	227.0000	88.3594	20.0	J-400	20.0
J-386	Spring	227.0000	35.2026	20.1	J-478	20.0
J-387	Spring	227.0000	57.9126	26.4	J-388	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-388	Spring	227.0000	42.2872	20.0	J-478	20.0
J-389	Spring	227.0000	60.8917	20.0	J-390	20.0
J-390	Spring	227.0000	48.5065	20.0	J-389	20.0
J-391	Spring	227.0000	42.8031	20.0	J-478	20.0
J-392	Municipal	227.0000	105.5854	20.0	J-394	20.0
J-393	Municipal	227.0000	72.4608	20.0	J-394	20.0
J-394	Municipal	227.0000	88.8202	20.0	J-393	20.0
J-395	Municipal	227.0000	182.7004	20.0	J-396	20.0
J-396	Municipal	227.0000	83.6473	20.0	J-400	20.0
J-397	Municipal	227.0000	87.2760	20.0	J-139	20.0
J-398	Municipal	227.0000	94.3595	20.0	J-626	20.0
J-400	Municipal	227.0000	38.0689	20.0	J-404	20.0
J-401	Municipal	227.0000	94.4380	20.0	J-402	20.0
J-402	Municipal	227.0000	92.5724	20.0	J-401	20.0
J-403	Municipal	227.0000	56.8409	27.8	J-400	20.0
J-404	Municipal	227.0000	36.5459	20.0	J-400	20.0
J-405	Municipal	227.0000	56.9278	20.1	J-626	20.0
J-406	Municipal	227.0000	97.6626	20.1	J-408	20.0
J-407	Municipal	227.0000	61.5726	20.0	J-408	20.0
J-408	Municipal	227.0000	68.0455	20.0	J-407	20.0
J-409	Municipal	227.0000	91.6531	23.3	J-626	20.0
J-410	Municipal	227.0000	91.3315	20.0	J-626	20.0
J-411	Municipal	227.0000	32.2834	21.4	J-413	20.0
J-412	Municipal	227.0000	32.2833	22.4	J-413	20.0
J-413	Municipal	227.0000	32.2477	20.0	J-411	20.0
J-414	Municipal	227.0000	129.8236	23.7	J-654	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-415	Municipal	227.0000	126.4778	24.6	J-654	20.0
J-416	Municipal	227.0000	119.8895	20.1	J-650	20.0
J-417	Municipal	227.0000	118.7194	21.0	J-650	20.0
J-418	Municipal	227.0000	86.2947	20.0	J-125	20.0
J-419	Municipal	227.0000	113.1971	21.0	J-650	20.0
J-420	Municipal	227.0000	114.3499	21.0	J-650	20.0
J-421	Municipal	227.0000	112.4233	20.0	J-422	20.0
J-422	Municipal	227.0000	45.5798	20.0	J-654	20.0
J-423	Municipal	227.0000	124.2962	27.1	J-654	20.0
J-424	Municipal	227.0000	124.2197	34.3	J-654	20.0
J-425	Spring	227.0000	151.3146	20.0	J-478	20.0
J-426	Municipal	227.0000	113.9712	52.8	J-654	20.0
J-428	Spring	227.0000	159.9591	24.8	J-235	20.0
J-429	Spring	227.0000	99.8517	20.0	J-430	20.0
J-430	Spring	227.0000	50.5871	20.1	J-478	20.0
J-431	Spring	227.0000	57.4589	20.1	J-478	20.0
J-432	Spring	227.0000	46.2352	20.0	J-478	20.0
J-433	Municipal	227.0000	100.6964	20.0	J-434	20.0
J-434	Municipal	227.0000	77.5397	20.0	J-433	20.0
J-435	Municipal	227.0000	72.0693	20.0	J-220	20.0
J-436	Municipal	227.0000	79.6387	20.0	J-654	20.0
J-437	Spring	227.0000	52.4293	20.1	J-478	20.0
J-438	Spring	227.0000	38.4671	20.1	J-478	20.0
J-439	Spring	227.0000	62.4619	20.0	J-235	20.0
J-440	Spring	227.0000	231.1977	25.9	J-235	20.0
J-441	Spring	227.0000	57.6828	20.0	J-478	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-442	East Hill Reduced Pressure Zone	227.0000	32.8969	20.1	J-443	20.0
J-443	East Hill Reduced Pressure Zone	227.0000	31.4497	20.1	J-442	20.0
J-444	East Hill Reduced Pressure Zone	227.0000	46.2773	20.7	J-447	20.0
J-445	East Hill Reduced Pressure Zone	227.0000	41.8792	20.0	J-446	20.0
J-446	East Hill Reduced Pressure Zone	227.0000	37.0326	20.1	J-445	20.0
J-447	East Hill Reduced Pressure Zone	227.0000	37.0213	20.1	J-448	20.0
J-448	East Hill Reduced Pressure Zone	227.0000	36.3305	20.1	J-447	20.0
J-449	East Hill Reduced Pressure Zone	227.0000	79.2411	20.0	J-450	20.0
J-450	East Hill Reduced Pressure Zone	227.0000	60.5564	20.0	J-537	20.0
J-451	East Hill Reduced Pressure Zone	227.0000	63.9853	21.1	J-33	20.0
J-452	East Hill Reduced Pressure Zone	227.0000	62.4865	20.0	J-33	20.0
J-453	East Hill Reduced Pressure Zone	227.0000	92.7266	20.0	J-455	20.0
J-454	East Hill Reduced Pressure Zone	227.0000	64.1335	20.0	J-455	20.0
J-455	East Hill Reduced Pressure Zone	227.0000	61.1617	20.0	J-454	20.0
J-456	East Hill Reduced Pressure Zone	227.0000	63.1925	20.0	J-457	20.0
J-457	East Hill Reduced Pressure Zone	227.0000	79.6629	20.0	J-456	20.0
J-458	East Hill Reduced Pressure Zone	227.0000	90.7329	20.0	J-459	20.0
J-459	East Hill Reduced Pressure Zone	227.0000	58.6247	20.0	J-460	20.0
J-460	East Hill Reduced Pressure Zone	227.0000	60.1676	20.0	J-459	20.0
J-461	East Hill Reduced Pressure Zone	227.0000	57.2182	20.0	J-459	20.0
J-462	East Hill Reduced Pressure Zone	227.0000	144.6313	20.0	J-463	20.0
J-463	East Hill Reduced Pressure Zone	227.0000	58.4287	20.0	J-537	20.0
J-464	East Hill Reduced Pressure Zone	227.0000	89.1585	20.0	J-465	20.0
J-465	East Hill Reduced Pressure Zone	227.0000	56.8730	20.0	J-537	20.0
J-466	East Hill Reduced Pressure Zone	227.0000	84.7927	20.0	J-467	20.0
J-467	East Hill Reduced Pressure Zone	227.0000	59.1820	20.0	J-537	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-468	East Hill Reduced Pressure Zone	227.0000	228.7147	20.0	J-47	20.0
J-469	East Hill Reduced Pressure Zone	227.0000	114.5496	20.0	J-470	20.0
J-470	East Hill Reduced Pressure Zone	227.0000	107.4820	20.0	J-469	20.0
J-471	East Hill Reduced Pressure Zone	227.0000	118.8849	20.0	J-531	20.0
J-472	East Hill Reduced Pressure Zone	227.0000	84.8814	20.0	J-473	20.0
J-473	East Hill Reduced Pressure Zone	227.0000	68.9815	20.0	J-474	20.0
J-474	East Hill Reduced Pressure Zone	227.0000	59.4241	20.0	J-473	20.0
J-475	East Hill Reduced Pressure Zone	227.0000	78.5489	20.0	J-537	20.0
J-477	Spring	227.0000	92.1105	20.0	J-478	20.0
J-478	Spring	227.0000	75.4702	20.0	J-479	20.0
J-479	Spring	227.0000	58.7709	20.0	J-478	20.0
J-480	Spring	227.0000	67.1377	20.0	J-478	20.0
J-481	Industrial	227.0000	68.2026	20.0	J-322	20.0
J-482	Municipal	227.0000	53.5291	20.0	J-68	20.0
J-483	Municipal	227.0000	268.4889	20.0	J-654	20.0
J-484	Municipal	227.0000	455.0055	20.0	J-654	20.0
J-485	Municipal	227.0000	350.7513	20.0	J-486	20.0
J-486	Municipal	227.0000	161.3018	20.0	J-654	20.0
J-487	Municipal	227.0000	326.5627	20.0	J-654	20.0
J-490	Municipal	227.0000	153.7371	20.0	J-654	20.0
J-491	Municipal	227.0000	96.7207	20.7	J-492	20.0
J-492	Municipal	227.0000	65.9656	20.0	J-491	20.0
J-493	Municipal	227.0000	73.8422	20.0	J-93	20.0
J-495	Municipal	227.0000	169.8855	22.1	J-496	20.0
J-496	Municipal	227.0000	129.0961	20.0	J-682	20.0
J-497	Municipal	227.0000	194.0106	20.0	J-498	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-498	Municipal	227.0000	131.0748	20.0	J-654	20.0
J-499	Municipal	227.0000	195.4263	20.0	J-501	20.0
J-500	Municipal	227.0000	97.6945	20.0	J-501	20.0
J-501	Municipal	227.0000	111.8103	20.0	J-500	20.0
J-502	Municipal	227.0000	121.1917	23.6	J-505	20.0
J-503	Municipal	227.0000	124.3866	22.2	J-505	20.0
J-504	Municipal	227.0000	117.2987	26.4	J-505	20.0
J-505	Municipal	227.0000	98.5082	20.0	J-510	20.0
J-506	Municipal	227.0000	121.8182	21.7	J-510	20.0
J-507	Municipal	227.0000	121.8487	29.6	J-510	20.0
J-508	Municipal	227.0000	120.3039	21.2	J-510	20.0
J-509	Municipal	227.0000	122.7335	20.0	J-713	20.0
J-510	Municipal	227.0000	113.3622	20.0	J-713	20.0
J-511	Industrial	227.0000	346.7109	30.7	J-595	20.0
J-512	Industrial	227.0000	103.4298	20.0	J-595	20.0
J-514	Industrial	227.0000	256.3290	49.5	J-595	20.0
J-515	Municipal	227.0000	124.2456	23.8	J-654	20.0
J-516	Municipal	227.0000	116.8915	20.0	J-654	20.0
J-517	Municipal	227.0000	124.2789	25.7	J-654	20.0
J-518	Municipal	227.0000	104.1482	20.0	J-654	20.0
J-520	Municipal	227.0000	121.2605	22.5	J-650	20.0
J-521	Municipal	227.0000	92.7255	20.0	J-654	20.0
J-525	Municipal	227.0000	318.8303	20.0	J-400	20.0
J-526	Municipal	227.0000	359.6399	73.4	J-400	20.0
J-527	Spring	227.0000	91.3303	20.0	J-528	20.0
J-528	Spring	227.0000	68.2584	20.0	J-478	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-529	Municipal	227.0000	116.0585	61.6	J-354	20.0
J-530	Municipal	227.0000	108.6962	20.0	J-354	20.0
J-531	East Hill Reduced Pressure Zone	227.0000	110.4837	20.0	J-537	20.0
J-532	East Hill Reduced Pressure Zone	227.0000	105.3901	20.0	J-533	20.0
J-533	East Hill Reduced Pressure Zone	227.0000	102.5943	20.0	J-532	20.0
J-534	Municipal	227.0000	103.4099	20.0	J-400	20.0
J-535	East Hill Pressure Zone	227.0000	0.0000	93.2	J-28	20.0
J-536	East Hill Pressure Zone	227.0000	0.0000	95.5	J-28	20.0
J-537	East Hill Reduced Pressure Zone	227.0000	33.3524	20.0	J-59	20.0
J-538	East Hill Pressure Zone	227.0000	0.0000	79.0	J-28	20.0
J-539	Municipal	227.0000	297.6423	72.5	J-354	20.0
J-540	Municipal	227.0000	192.5061	20.0	J-436	20.0
J-542	Spring	227.0000	158.4242	20.0	J-662	20.0
J-543	Spring	227.0000	227.5892	26.3	J-261	20.0
J-544	Municipal	227.0000	36.4489	20.0	J-545	20.0
J-545	Municipal	227.0000	53.7446	20.0	J-546	20.0
J-546	Municipal	227.0000	42.4519	20.0	J-545	20.0
J-547	Industrial	227.0000	146.5287	35.4	J-481	20.0
J-548	Industrial	227.0000	170.2835	33.8	J-481	20.0
J-549	Industrial	227.0000	128.9847	20.0	J-550	20.0
J-550	Industrial	227.0000	92.1581	20.0	J-595	20.0
J-552	Industrial	227.0000	253.9631	33.4	J-481	20.0
J-553	Industrial	227.0000	210.3091	33.9	J-481	20.0
J-554	Municipal	227.0000	191.1351	20.0	J-654	20.0
J-555	Municipal	227.0000	27.3497	20.0	J-654	20.0
J-556	Municipal	227.0000	38.4704	25.0	J-557	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-557	Municipal	227.0000	35.5796	20.0	J-556	20.0
J-558	Industrial	227.0000	352.0541	25.1	J-595	20.0
J-559	East Hill Reduced Pressure Zone	227.0000	47.8838	20.0	J-537	20.0
J-560	Municipal	227.0000	96.1092	25.3	J-654	20.0
J-561	Municipal	227.0000	79.9692	20.0	J-654	20.0
J-562	Industrial	227.0000	264.8541	25.3	J-595	20.0
J-563	Industrial	227.0000	174.7546	31.1	J-481	20.0
J-564	Non-Supply	227.0000	0.0000	2.3	J-669	20.0
J-565	Industrial	227.0000	450.9691	20.0	J-566	20.0
J-566	Industrial	227.0000	451.6242	20.0	J-565	20.0
J-567	Industrial	227.0000	451.5871	20.0	J-568	20.0
J-568	Industrial	227.0000	451.3481	20.0	J-571	20.0
J-569	Industrial	227.0000	372.8914	104.2	J-595	20.0
J-570	Industrial	227.0000	372.3966	104.2	J-595	20.0
J-571	Industrial	227.0000	451.2410	20.0	J-568	20.0
J-572	Industrial	227.0000	372.5384	104.2	J-595	20.0
J-573	Municipal	227.0000	500.0000	78.0	J-654	20.0
J-574	Municipal	227.0000	500.0000	78.0	J-654	20.0
J-575	Municipal	227.0000	500.0000	78.2	J-654	20.0
J-576	Municipal	227.0000	500.0000	78.2	J-654	20.0
J-578	Municipal	227.0000	500.0000	74.0	J-654	20.0
J-579	Non-Supply	227.0000	0.0000	6.3	J-564	20.0
J-580	Non-Supply	227.0000	0.0000	6.2	J-564	20.0
J-581	East Hill Pressure Zone	227.0000	0.0000	76.6	J-28	20.0
J-582	East Hill Pressure Zone	227.0000	0.0000	76.6	J-28	20.0
J-583	East Hill Pressure Zone	227.0000	0.0000	72.3	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-584	East Hill Pressure Zone	227.0000	0.0000	72.3	J-28	20.0
J-585	Industrial	227.0000	206.2768	49.5	J-595	20.0
J-586	Industrial	227.0000	297.1074	50.0	J-595	20.0
J-587	Industrial	227.0000	329.6429	47.6	J-595	20.0
J-588	Industrial	227.0000	304.0840	48.6	J-595	20.0
J-589	Industrial	227.0000	306.6037	51.3	J-595	20.0
J-590	Industrial	227.0000	331.9072	26.3	J-595	20.0
J-591	Spring	227.0000	172.2246	20.0	J-478	20.0
J-592	Spring	227.0000	159.7927	20.0	J-593	20.0
J-593	Spring	227.0000	141.6223	20.0	J-478	20.0
J-594	Municipal	227.0000	500.0000	80.7	J-654	20.0
J-595	Industrial	227.0000	127.3495	20.0	J-707	20.0
J-596	Industrial	227.0000	159.2380	40.3	J-595	20.0
J-597	East Hill Pressure Zone	227.0000	0.0000	89.4	J-28	20.0
J-599	East Hill Pressure Zone	227.0000	0.0000	62.3	J-28	20.0
J-600	East Hill Pressure Zone	227.0000	0.0000	71.2	J-28	20.0
J-601	Spring	227.0000	114.2655	20.0	J-478	20.0
J-602	Municipal	227.0000	113.9985	38.3	J-654	20.0
J-603	Spring	227.0000	72.5748	24.5	J-282	20.0
J-604	Spring	227.0000	51.3615	20.0	J-282	20.0
J-605	Spring	227.0000	187.3203	27.4	J-235	20.0
J-606	Spring	227.0000	57.0598	20.1	J-478	20.0
J-607	Municipal	227.0000	177.4070	20.0	J-654	20.0
J-608	Municipal	227.0000	126.3623	20.0	J-71	20.0
J-609	Municipal	227.0000	129.4754	20.0	J-682	20.0
J-610	Industrial	227.0000	363.8740	44.8	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-611	Industrial	227.0000	347.2220	42.6	J-595	20.0
J-612	Municipal	227.0000	162.5125	20.0	J-613	20.0
J-613	Municipal	227.0000	149.1480	20.0	J-682	20.0
J-614	East Hill Reduced Pressure Zone	227.0000	71.8553	20.0	J-537	20.0
J-615	East Hill Reduced Pressure Zone	227.0000	173.5878	20.0	J-616	20.0
J-616	East Hill Reduced Pressure Zone	227.0000	76.5749	20.0	J-537	20.0
J-617	East Hill Reduced Pressure Zone	227.0000	97.9786	20.0	J-537	20.0
J-618	East Hill Reduced Pressure Zone	227.0000	97.1686	23.2	J-537	20.0
J-620	Municipal	227.0000	95.5975	20.0	J-197	20.0
J-621	Municipal	227.0000	54.0227	20.0	J-623	20.0
J-622	Municipal	227.0000	78.0210	24.3	J-621	20.0
J-623	Municipal	227.0000	54.3255	20.1	J-621	20.0
J-624	Municipal	227.0000	78.9461	24.3	J-623	20.0
J-626	Municipal	227.0000	49.6956	20.0	J-405	20.0
J-627	Municipal	227.0000	236.4469	20.0	J-354	20.0
J-628	Municipal	227.0000	179.3678	34.8	J-354	20.0
J-630	Municipal	227.0000	183.3541	20.0	J-405	20.0
J-631	Spring	227.0000	84.3477	27.7	J-432	20.0
J-632	Municipal	227.0000	198.2975	55.8	J-405	20.0
J-633	Municipal	227.0000	127.7939	67.5	J-654	20.0
J-634	Municipal	227.0000	133.0772	63.3	J-654	20.0
J-635	Municipal	227.0000	500.0000	79.5	J-654	20.0
J-639	Industrial	227.0000	172.9611	20.0	J-595	20.0
J-640	Municipal	227.0000	500.0000	72.7	J-654	20.0
J-641	Industrial	227.0000	345.3458	38.7	J-595	20.0
J-642	Industrial	227.0000	168.2844	20.0	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-643	Industrial	227.0000	340.6080	30.4	J-595	20.0
J-644	Municipal	227.0000	500.0000	85.4	J-654	20.0
J-645	Industrial	227.0000	340.6093	36.9	J-595	20.0
J-646	Industrial	227.0000	331.5397	36.0	J-595	20.0
J-647	Municipal	227.0000	67.0437	20.0	J-654	20.0
J-648	Municipal	227.0000	56.6598	20.1	J-650	20.0
J-649	Municipal	227.0000	46.4701	20.1	J-650	20.0
J-650	Municipal	227.0000	44.8475	20.1	J-648	20.0
J-651	Municipal	227.0000	57.9515	20.1	J-652	20.0
J-652	Municipal	227.0000	46.8401	20.1	J-651	20.0
J-653	Municipal	227.0000	44.5183	20.1	J-651	20.0
J-654	Municipal	227.0000	74.3124	20.0	J-217	20.0
J-658	Municipal	227.0000	82.6034	20.6	J-654	20.0
J-659	Municipal	227.0000	113.9984	69.5	J-654	20.0
J-661	Municipal	227.0000	500.0000	85.2	J-654	20.0
J-662	Spring	227.0000	143.0670	20.0	J-688	20.0
J-663	Municipal	227.0000	306.1911	20.0	J-647	20.0
J-664	Municipal	227.0000	79.1032	20.0	J-654	20.0
J-665	Municipal	227.0000	101.2613	20.0	J-400	20.0
J-666	Municipal	227.0000	107.6762	20.0	J-400	20.0
J-667	Municipal	227.0000	104.1367	20.0	J-400	20.0
J-668	Municipal	227.0000	235.5827	50.1	J-354	20.0
J-669	Non-Supply	227.0000	0.0000	3.7	J-564	20.0
J-670	Non-Supply	227.0000	0.0000	8.0	J-564	20.0
J-671	East Hill Pressure Zone	227.0000	0.0000	74.2	J-28	20.0
J-672	East Hill Pressure Zone	227.0000	0.0000	76.6	J-28	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-673	Industrial	227.0000	372.3902	93.5	J-595	20.0
J-674	Spring	227.0000	41.1616	20.1	J-478	20.0
J-675	Industrial	227.0000	72.9832	27.8	J-677	20.0
J-676	Industrial	227.0000	75.7682	29.8	J-677	20.0
J-677	Industrial	227.0000	69.1919	20.1	J-675	20.0
J-678	Industrial	227.0000	72.9833	26.8	J-677	20.0
J-679	Municipal	227.0000	124.2910	28.0	J-654	20.0
J-680	Municipal	227.0000	125.3131	25.8	J-654	20.0
J-681	Municipal	227.0000	80.5673	20.1	J-654	20.0
J-682	Municipal	227.0000	135.1334	20.0	J-609	20.0
J-683	Municipal	227.0000	111.1554	21.3	J-650	20.0
J-684	East Hill Pressure Zone	227.0000	0.0000	73.7	J-28	20.0
J-685	East Hill Pressure Zone	227.0000	0.0000	67.3	J-28	20.0
J-687	Spring	227.0000	110.4555	20.0	J-688	20.0
J-688	Spring	227.0000	129.5788	20.0	J-687	20.0
J-689	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-690	Industrial	227.0000	(N/A)	(N/A)	(N/A)	20.0
J-691	Industrial	227.0000	223.9724	20.0	J-595	20.0
J-692	Industrial	227.0000	356.2855	20.0	J-595	20.0
J-693	Industrial	227.0000	330.7743	30.2	J-694	20.0
J-694	Industrial	227.0000	250.8715	20.0	J-595	20.0
J-695	East Hill Pressure Zone	227.0000	0.0000	69.6	J-28	20.0
J-696	East Hill Pressure Zone	227.0000	0.0000	62.5	J-28	20.0
J-697	East Hill Pressure Zone	227.0000	0.0000	60.7	J-28	20.0
J-698	Industrial	227.0000	366.1821	48.1	J-595	20.0
J-699	Industrial	227.0000	322.1533	20.0	J-595	20.0

Fire Flow Node FlexTable: Fire Flow Report Report

Label	Zone	Fire Flow (Needed) (L/s)	Fire Flow (Available) (L/s)	Pressure (Calculated Residual Lower Limit) (psi)	Junction w/Minimum Pressure (Zone)	Pressure (Residual Lower Limit) (psi)
J-700	Municipal	227.0000	314.7015	20.0	J-654	20.0
J-701	Industrial	227.0000	364.9163	64.2	J-595	20.0
J-702	Spring	227.0000	171.2581	29.1	J-235	20.0
J-703	Spring	227.0000	76.3147	20.0	J-478	20.0
J-704	Spring	227.0000	57.2993	20.0	J-705	20.0
J-705	Spring	227.0000	49.7139	20.0	J-704	20.0
J-706	Industrial	227.0000	376.3184	33.2	J-595	20.0
J-707	Industrial	227.0000	387.9886	27.5	J-595	20.0
J-708	Industrial	227.0000	376.4134	29.4	J-595	20.0
J-709	East Hill Pressure Zone	227.0000	0.0000	81.5	J-28	20.0
J-710	Industrial	227.0000	357.5304	49.2	J-595	20.0
J-711	Industrial	227.0000	441.7455	38.8	J-712	20.0
J-712	Industrial	227.0000	417.6188	20.0	J-711	20.0
J-713	Municipal	227.0000	117.8494	20.0	J-510	20.0
J-714	Municipal	227.0000	121.8531	24.1	J-510	20.0
J-715	Municipal	227.0000	122.0963	22.6	J-510	20.0
J-716	Municipal	227.0000	122.1387	22.9	J-510	20.0
J-717	Municipal	227.0000	89.8538	20.1	J-713	20.0
J-718	Municipal	227.0000	122.5380	30.6	J-510	20.0
J-719	Municipal	227.0000	123.6180	32.6	J-510	20.0
J-720	Municipal	227.0000	121.9341	21.5	J-713	20.0



Appendix E1
Existing Plan Hydra Output

Jan30E

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
1442	1689	44.50	179.83 179.42	177.33 176.92	0.0092	450	0.017	0.03020	0.96	0.26	0.274 0.273 0.243	0 0	177.33 177.04	No
10A09-105 204	406	43.33	242.53 238.80	240.03 236.30	0.0861	200	0.016	0.00180	1.14	0.12	0.097 0.096 0.094	0 0	240.03 236.33	No
15aS09-49 316	506	46.65	220.74 219.40	218.24 216.90	0.0287	200	0.017	0.00610	1.02	0.27	0.056 0.056 0.049	0 0	218.27 217.00	No
BP490 1486	490	17.78	228.27 227.52	225.77 225.02	0.0421	300	0.016	0.00420	1.05	0.12	0.199 0.198 0.194	0 0	225.77 225.10	No
BP653 1670	653	2.62	178.99 177.98	176.49 175.49	0.3810	375	0.016	0.03430	4.00	0.15	1.085 1.081 1.047	0 0	176.78 176.78	Yes
BP654 1668	654	10.18	179.01 178.99	176.51 176.49	0.0015	375	0.013	0.00000	0.06	0.00	0.068 0.067 0.067	0 0	176.78 176.78	No
BP662 1685	662	180.21	178.62 178.35	176.12 175.85	0.0015	375	0.016	0.00090	0.20	0.10	0.067 0.067 0.066	0 0	176.15 175.89	No
E01A05-37 760	19	81.74	216.40 216.06	213.90 213.56	0.0041	250	0.013	0.00000	0.06	0.00	0.038 0.038 0.038	0 0	213.90 213.63	No
E01A06-08 1318	165	131.43	183.48 182.95	180.98 180.45	0.0041	525	0.016	0.08000	0.94	0.43	0.275 0.274 0.194	0 0	181.21 180.67	No
E01A06-2 1316	141	88.14	184.00 183.48	181.50 180.98	0.0059	525	0.017	0.08000	1.06	0.38	0.330 0.329 0.249	0 0	181.50 181.21	No
E01A06-8 1327	169	8.50	183.61 182.95	181.11 180.45	0.0774	300	0.016	0.01460	1.75	0.18	0.270 0.269 0.254	0 0	181.14 180.66	No
E01A07-4 1335	207	28.00	181.72 180.75	179.22 178.25	0.0348	525	0.017	0.08990	2.10	0.27	0.804 0.801 0.711	0 0	179.31 178.45	No
E01A07-5 1333	200	38.20	182.02 181.72	179.52 179.22	0.0080	525	0.017	0.08990	1.23	0.38	0.385 0.383 0.293	0 0	179.73 179.42	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
E01A07-6 1331	195	64.60	182.48 182.02	179.98 179.52	0.0070	525	0.017	0.08990	1.17	0.39	0.360 0.359 0.269	0 0	180.18 179.73	No
E01A07-7 1329	188	65.20	182.95 182.48	180.45 179.98	0.0073	525	0.017	0.08990	1.19	0.39	0.367 0.366 0.276	0 0	180.66 180.18	No
E01A08-1 1354	265	108.80	179.81 178.75	177.31 176.25	0.0097	600	0.017	0.14350	1.49	0.39	0.607 0.605 0.461	0 0	177.31 176.58	No
E01A08-2 1352	245	84.10	180.28 179.81	177.78 177.31	0.0056	600	0.016	0.14350	1.21	0.44	0.459 0.457 0.314	0 0	178.04 177.57	No
E01A08-2 1337	217	22.90	180.75 180.57	178.25 178.07	0.0076	525	0.017	0.08990	1.20	0.38	0.376 0.375 0.285	0 0	178.45 178.27	No
E01A08-2 1348	218	9.88	181.02 180.57	178.52 178.07	0.0452	300	0.017	0.01780	1.57	0.24	0.206 0.206 0.188	0 0	178.56 178.27	No
E01A09-01 1379	369	78.96	178.17 178.03	175.67 175.53	0.0017	900	0.016	0.28410	0.94	0.49	0.756 0.753 0.469	0 0	176.11 175.97	No
E01A09-03 174	353	23.68	178.63 178.17	176.13 175.67	0.0195	900	0.017	0.16900	1.94	0.20	2.533 2.523 2.354	0 0	176.13 176.11	No
E01A09-03 1377	354	36.84	178.53 178.17	176.03 175.67	0.0097	675	0.017	0.14760	1.47	0.33	0.830 0.827 0.679	0 0	176.17 176.11	No
E01A09-05 1375	345	105.11	178.75 178.53	176.25 176.03	0.0021	675	0.016	0.14760	0.86	0.49	0.390 0.389 0.241	0 0	176.58 176.35	No
E01A10-02 1116	384	27.44	179.03 178.67	176.53 176.17	0.0128	250	0.014	0.00000	0.20	0.02	0.068 0.067 0.067	0 0	176.53 176.18	No
E01A11-03 1460	14	114.00	177.36 177.25	174.86 174.75	0.0010	,000	0.016	0.30440	0.77	0.51	0.747 0.744 0.440	0 0	175.37 175.26	No
E01A11-04 1458	500	120.46	177.47 177.36	174.97 174.86	0.0009	,000	0.016	0.30440	0.76	0.52	0.727 0.724 0.419	0 0	175.49 175.38	No
E01A12-01 1464	566	110.54	177.15 177.04	174.65 174.54	0.0010	,000	0.016	0.30630	0.78	0.51	0.759 0.756 0.449	0 0	175.16 175.05	No
E01A12-02 1462	539	100.60	177.25 177.15	174.75 174.65	0.0010	,000	0.016	0.30490	0.78	0.51	0.758 0.755 0.450	0 0	175.16 175.16	No

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E01S02-08 1446	377	40.00	178.95 178.65	176.45 176.15	0.0076	450	0.017	0.03020	0.90	0.27	0.250 0.249 0.219	0 0	176.57 176.27	No
E01S05-38 758	18	80.87	216.75 216.40	214.25 213.90	0.0043	250	0.013	0.00000	0.06	0.00	0.039 0.039 0.039	0 0	214.25 213.90	No
E01S05-42 742	21	43.60	215.60 215.24	213.10 212.74	0.0083	200	0.017	0.00230	0.48	0.21	0.030 0.030 0.028	0 0	213.13 212.79	No
E01S05-45 754	31	10.82	214.25 214.15	211.75 211.65	0.0093	200	0.017	0.00530	0.65	0.34	0.032 0.032 0.026	0 0	211.82 211.72	No
E01S05A-41 740	22	109.70	216.02 215.60	213.52 213.10	0.0038	200	0.017	0.00230	0.37	0.27	0.020 0.020 0.018	0 0	213.58 213.16	No
E02A01-07 1452	428	77.00	177.78 177.68	175.28 175.18	0.0013	,000	0.016	0.30140	0.85	0.46	0.871 0.868 0.566	0 0	175.69 175.69	No
E02A01-07 1450	411	123.32	177.89 177.78	175.39 175.28	0.0008	,000	0.016	0.30140	0.73	0.52	0.698 0.696 0.394	0 0	175.91 175.81	No
E02A04-1 870	104	74.70	186.25 186.07	183.75 183.57	0.0024	300	0.014	0.04260	0.69	0.83	0.048 0.047 0.005	0 0	184.00 183.82	No
E02A04-17 866	84	58.00	186.70 186.41	184.20 183.91	0.0050	300	0.016	0.03800	0.87	0.61	0.069 0.068 0.030	0 0	184.38 184.09	No
E02A04-4 868	88	24.00	186.41 186.25	183.91 183.75	0.0067	300	0.016	0.03820	0.97	0.57	0.079 0.079 0.041	0 0	184.00 184.00	No
E02A05-3 878	117	137.20	186.07 185.39	183.57 182.89	0.0050	300	0.015	0.04490	0.91	0.67	0.069 0.068 0.023	0 0	183.77 183.09	No
E02A06-3 32	171	97.70	186.27 184.54	183.77 182.04	0.0177	225	0.015	0.00010	0.34	0.05	0.060 0.060 0.060	0 0	183.78 182.10	No
E02A06-37 30	148	83.00	186.56 186.27	184.06 183.77	0.0035	225	0.015	0.00010	0.15	0.05	0.027 0.027 0.026	0 0	184.07 183.78	No
E02A07-10 938	223	91.18	183.98 182.69	181.48 180.19	0.0142	300	0.015	0.00010	0.32	0.04	0.116 0.115 0.115	0 0	181.50 180.28	No
E02A07-32 936	194	92.23	184.50 183.98	182.00 181.48	0.0056	300	0.015	0.00010	0.20	0.04	0.073 0.072 0.072	0 0	182.01 181.50	No

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E02A08-5 104	274	87.50	181.88 180.96	179.38 178.46	0.0105	300	0.015	0.00010	0.27	0.04	0.099 0.099 0.099	0 0	179.38 178.51	No
E02A08-6 102	253	88.00	182.76 181.88	180.26 179.38	0.0101	300	0.015	0.00010	0.27	0.04	0.097 0.097 0.097	0 0	180.28 179.39	No
E02A09-08 1158	372	10.60	179.32 178.65	176.82 176.15	0.0637	300	0.014	0.00010	0.45	0.02	0.245 0.244 0.244	0 0	176.83 176.21	No
E02A09-09 1154	349	99.53	180.97 180.44	178.47 177.94	0.0054	300	0.014	0.00000	0.13	0.02	0.071 0.071 0.071	0 0	178.47 177.95	No
E02A09-112 1156	367	99.37	180.44 179.32	177.94 176.82	0.0112	300	0.015	0.00010	0.28	0.04	0.103 0.102 0.102	0 0	177.95 176.83	No
E02A10-06 1454	460	109.11	177.68 177.58	175.18 175.08	0.0009	,000	0.016	0.30150	0.75	0.51	0.728 0.725 0.424	0 0	175.69 175.59	No
E02A11-11 326	513	92.40	180.67 180.35	178.17 177.85	0.0034	300	0.016	0.00050	0.23	0.08	0.056 0.056 0.056	0 0	178.17 177.88	No
E02A11-15 1012	484	93.10	180.35 178.98	177.85 176.48	0.0147	225	0.016	0.00070	0.47	0.11	0.055 0.054 0.054	0 0	177.86 176.51	No
E02A12-01 370	549	8.59	178.23 177.89	175.73 175.39	0.0396	300	0.016	0.00140	0.80	0.08	0.193 0.192 0.191	0 0	175.73 175.45	No
E02A12-02 368	547	196.29	180.38 178.23	177.88 175.73	0.0110	300	0.016	0.00140	0.48	0.10	0.102 0.101 0.100	0 0	177.91 175.76	No
E02A13-03 1470	602	104.50	176.82 176.70	174.32 174.20	0.0012	,000	0.016	0.31920	0.83	0.50	0.815 0.812 0.492	0 0	174.71 174.71	No
E02A13-04 1468	580	106.37	176.93 176.82	174.43 174.32	0.0010	,000	0.016	0.31920	0.80	0.51	0.773 0.770 0.451	0 0	174.94 174.83	No
E02A14-07 1472	322	132.30	176.70 176.56	174.20 174.06	0.0011	,000	0.016	0.31920	0.80	0.51	0.782 0.779 0.460	0 0	174.71 174.57	No
E02A16-02 1474	629	96.60	176.56 176.45	174.06 173.95	0.0011	,000	0.016	0.32550	0.83	0.51	0.811 0.808 0.483	0 0	174.46 174.46	No
E02A17-01 1478	655	106.99	176.34 176.22	173.84 173.72	0.0011	,000	0.016	0.32540	0.83	0.51	0.805 0.802 0.477	0 0	174.23 174.23	No

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E02A17-06 1476	641	102.66	176.45 176.34	173.95 173.84	0.0011	1000	0.016	0.32550	0.81	0.51	0.787 0.784 0.459	0 0	174.46 174.35	No
E02S06-28 774	37	107.19	215.17 214.84	212.67 212.34	0.0031	250	0.017	0.00310	0.36	0.24	0.033 0.033 0.030	0 0	212.67 212.45	No
E02SA07-24 786	43	65.50	217.38 216.29	214.88 213.79	0.0168	200	0.017	0.00270	0.68	0.21	0.043 0.042 0.040	0 0	214.91 213.83	No
E02SA07-25 784	44	67.00	220.80 217.38	218.30 214.88	0.0509	200	0.016	0.00270	0.98	0.15	0.074 0.074 0.071	0 0	218.30 214.93	No
E03A05-6 908	128	139.00	187.35 186.43	184.85 183.93	0.0066	225	0.016	0.00120	0.40	0.16	0.037 0.036 0.035	0 0	184.86 184.05	No
E03A06-10 56	183	193.90	189.11 187.36	186.61 184.86	0.0090	300	0.016	0.00180	0.48	0.12	0.092 0.092 0.090	0 0	186.62 184.90	No
E03A06-18 798	53	36.85	213.62 213.62	211.12 211.12	0.0002	400	0.015	0.01830	0.21	0.66	0.029 0.029 0.010	0 0	211.39 211.38	No
E03A06-19 796	51	66.38	213.79 213.62	211.29 211.12	0.0025	400	0.017	0.01660	0.52	0.32	0.105 0.104 0.088	0 0	211.39 211.39	No
E03A06-6 40	176	9.99	185.75 185.41	183.25 182.91	0.0340	250	0.016	0.00160	0.73	0.10	0.110 0.110 0.108	0 0	183.25 182.98	No
E03A06-7 36	156	94.00	187.50 186.77	185.00 184.27	0.0078	250	0.016	0.00160	0.44	0.15	0.053 0.052 0.051	0 0	185.04 184.31	No
E03A06-88 38	173	88.59	186.77 185.75	184.27 183.25	0.0115	250	0.016	0.00160	0.48	0.12	0.064 0.064 0.062	0 0	184.30 183.28	No
E03A07-12 1338	230	115.14	185.63 184.67	183.13 182.17	0.0083	300	0.016	0.00060	0.37	0.08	0.089 0.088 0.088	0 0	183.14 182.25	No
E03A07-13 1319	193	98.10	186.21 185.41	183.71 182.91	0.0081	300	0.016	0.00080	0.36	0.08	0.088 0.087 0.086	0 0	183.72 182.98	No
E03A08-26 98	272	92.10	183.85 182.70	181.35 180.20	0.0125	300	0.015	0.00010	0.30	0.04	0.108 0.108 0.108	0 0	181.36 180.21	No
E03A08-9 96	252	76.20	184.77 183.85	182.27 181.35	0.0121	300	0.015	0.00010	0.29	0.04	0.107 0.106 0.106	0 0	182.29 181.36	No

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E03A08-MAIN 100	313	25.93	182.70 182.60	180.20 180.10	0.0039	300	0.015	0.00010	0.17	0.04	0.061 0.060 0.060	0 0	180.21 180.14	No
E03A09-114 172	383	12.14	180.52 179.83	178.02 177.33	0.0568	300	0.015	0.00040	0.63	0.04	0.231 0.230 0.230	0 0	178.03 177.45	No
E03A09-115 170	379	94.51	181.52 180.52	179.02 178.02	0.0106	300	0.016	0.00040	0.35	0.06	0.100 0.100 0.099	0 0	179.04 178.04	No
E03A09-14 168	352	86.20	182.10 181.52	179.60 179.02	0.0067	300	0.016	0.00040	0.27	0.06	0.079 0.079 0.079	0 0	179.62 179.04	No
E03A10-11 1006	418	64.90	180.72 180.68	178.22 178.18	0.0006	300	0.016	0.00010	0.08	0.06	0.023 0.023 0.023	0 0	178.24 178.20	No
E03A10-114 1010	388	22.71	180.30 179.83	177.80 177.33	0.0207	300	0.014	0.00010	0.26	0.02	0.140 0.139 0.139	0 0	177.81 177.45	No
E03A10-12 1004	436	62.70	181.41 180.72	178.91 178.22	0.0110	300	0.015	0.00010	0.28	0.04	0.102 0.101 0.101	0 0	178.91 178.24	No
E03A10-90 1008	399	42.20	180.68 180.30	178.18 177.80	0.0091	300	0.015	0.00010	0.25	0.04	0.092 0.092 0.092	0 0	178.20 177.81	No
E03A11-18 302	455	34.10	181.88 180.46	179.38 177.96	0.0416	300	0.016	0.00140	0.82	0.08	0.198 0.197 0.196	0 0	179.39 178.03	No
E03A11-26 300	497	176.80	183.66 181.88	181.16 179.38	0.0101	300	0.016	0.00140	0.46	0.10	0.097 0.097 0.096	0 0	181.19 179.41	No
E03A12-05 366	535	200.26	184.10 183.30	181.60 180.80	0.0040	300	0.016	0.00130	0.32	0.12	0.061 0.061 0.060	0 0	181.62 180.89	No
E03A13-09 1230	594	105.95	183.46 183.09	180.96 180.59	0.0035	375	0.013	0.00000	0.06	0.00	0.105 0.104 0.104	0 0	180.96 180.65	No
E03A13-12 1228	567	115.15	184.05 183.46	181.55 180.96	0.0051	375	0.013	0.00000	0.06	0.00	0.125 0.125 0.125	0 0	181.55 180.96	No
E03A14-07 1232	606	80.50	183.09 182.90	180.59 180.40	0.0024	375	0.016	0.00460	0.35	0.18	0.085 0.085 0.080	0 0	180.59 180.47	No
E03A15-05 1234	619	60.40	182.90 182.78	180.40 180.28	0.0020	375	0.017	0.00510	0.34	0.20	0.078 0.078 0.073	0 0	180.44 180.36	No

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E03A16-04 1236	329	80.50	182.78 182.64	180.28 180.14	0.0017	375	0.017	0.00570	0.34	0.23	0.073 0.072 0.067	0 0	180.36 180.23	No
E03A17-01 1240	640	68.50	182.33 182.00	179.83 179.50	0.0049	375	0.016	0.00600	0.50	0.18	0.122 0.122 0.116	0 0	179.90 179.57	No
E03A17-01a 1242	649	64.95	182.00 181.54	179.50 179.04	0.0072	375	0.016	0.00600	0.58	0.16	0.149 0.148 0.142	0 0	179.56 179.12	No
E03A17-02 1238	631	66.10	182.64 182.33	180.14 179.83	0.0047	375	0.016	0.00600	0.49	0.18	0.120 0.120 0.114	0 0	180.21 179.90	No
E03A18-01 468	658	54.80	182.08 181.54	179.58 179.04	0.0099	200	0.016	0.00020	0.33	0.09	0.033 0.033 0.032	0 0	179.59 179.12	No
E03A18-03 1676	677	157.77	176.07 175.86	173.57 173.36	0.0013	,000	0.016	0.34520	0.89	0.50	0.877 0.874 0.529	0 0	174.07 173.86	No
E03A18-04 1674	665	123.78	176.22 176.07	173.72 173.57	0.0012	,000	0.016	0.34520	0.87	0.51	0.837 0.834 0.489	0 0	174.23 174.08	No
E03A19-01 1680	709	114.28	175.72 175.58	173.22 173.08	0.0012	,000	0.016	0.34530	0.87	0.51	0.842 0.838 0.493	0 0	173.73 173.59	No
E03A19-02 1678	692	100.58	175.86 175.72	173.36 173.22	0.0014	,000	0.016	0.34520	0.91	0.49	0.897 0.894 0.548	0 0	173.73 173.73	No
E03A20-01 1682	731	163.05	175.58 175.16	173.08 172.66	0.0026	,000	0.016	0.34530	1.12	0.41	1.220 1.216 0.870	0 0	173.50 173.08	No
E03A20-01 1667	733	5.53	177.40 175.16	174.90 172.66	0.4050	450	0.016	0.06720	4.70	0.15	1.820 1.812 1.745	0 0	174.97 173.06	No
E03A20-02 1665	747	100.54	177.58 177.40	175.08 174.90	0.0018	450	0.016	0.06720	0.68	0.61	0.121 0.121 0.053	0 0	175.35 175.17	No
E03A21-03 1606	766	119.17	178.06 177.58	175.56 175.08	0.0040	450	0.017	0.03810	0.77	0.37	0.182 0.181 0.143	0 0	175.56 175.35	No
E03A21-06 658	778	102.33	180.97 180.66	178.47 178.16	0.0030	225	0.017	0.00590	0.43	0.38	0.025 0.025 0.019	0 0	178.56 178.25	No
E03A21-07 1604	782	118.69	179.78 178.06	177.28 175.56	0.0145	350	0.017	0.03430	1.20	0.35	0.176 0.175 0.141	0 0	177.35 175.73	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
E03A21-07 660	767	14.38	180.66 178.06	178.16 175.56	0.1808	225	0.016	0.00590	1.89	0.14	0.192 0.191 0.185	0 0	178.19 175.73	No
E03A21-08 656	788	77.76	181.20 180.97	178.70 178.47	0.0030	225	0.017	0.00590	0.44	0.41	0.025 0.024 0.019	0 0	178.79 178.56	No
E03A22-07 1602	792	118.69	180.10 179.78	177.60 177.28	0.0027	350	0.016	0.03430	0.66	0.54	0.076 0.076 0.041	0 0	177.79 177.47	No
E03A22-11 654	794	118.74	181.56 181.20	179.06 178.70	0.0030	225	0.017	0.00590	0.43	0.38	0.025 0.025 0.019	0 0	179.06 178.79	No
E03A23-10 1600	795	93.49	180.42 180.10	177.92 177.60	0.0034	350	0.016	0.03430	0.72	0.51	0.086 0.085 0.051	0 0	177.92 177.79	No
E03A23-12 652	796	103.67	181.85 181.56	179.35 179.06	0.0028	225	0.017	0.00590	0.43	0.41	0.024 0.024 0.018	0 0	179.44 179.15	No
E03A23-13 650	799	15.95	181.98 181.85	179.48 179.35	0.0082	225	0.017	0.00590	0.62	0.30	0.041 0.041 0.035	0 0	179.48 179.44	No
E03A23-24 1598	797	69.04	180.70 180.42	178.20 177.92	0.0041	350	0.016	0.03430	0.77	0.49	0.093 0.093 0.059	0 0	178.30 178.10	No
E03A23-26 1596	800	28.47	180.79 180.70	178.29 178.20	0.0032	350	0.016	0.03430	0.70	0.52	0.082 0.082 0.048	0 0	178.47 178.38	No
E03A24-14 1594	806	111.10	183.89 180.79	181.39 178.29	0.0279	350	0.017	0.03430	1.52	0.30	0.244 0.243 0.209	0 0	181.39 178.47	No
E03A24-15 648	802	65.97	183.12 181.98	180.62 179.48	0.0173	225	0.017	0.00590	0.80	0.24	0.059 0.059 0.053	0 0	180.65 179.55	No
E03A24-16 646	807	64.24	184.51 183.12	182.01 180.62	0.0216	225	0.017	0.00590	0.90	0.24	0.066 0.066 0.060	0 0	182.07 180.68	No
E03A24-17 644	281	75.88	185.95 184.51	183.45 182.01	0.0190	225	0.017	0.00590	0.84	0.24	0.062 0.062 0.056	0 0	183.51 182.07	No
E03A24-18 1592	283	98.70	185.23 183.89	182.73 181.39	0.0136	350	0.017	0.03430	1.16	0.35	0.171 0.170 0.136	0 0	182.85 181.51	No
E03A25-19 1590	0	54.86	185.98 185.23	183.48 182.73	0.0137	350	0.017	0.03430	1.17	0.35	0.171 0.171 0.136	0 0	183.55 182.85	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E03A25-21	108.83	186.77	184.27	0.0072	350	0.016	0.03430	0.94	0.42	0.124	0	184.41	No
1588	291	185.98	183.48							0.124	0	183.63	
										0.090			
E03A27-22	110.43	187.09	184.59	0.0029	350	0.016	0.03430	0.69	0.54	0.079	0	184.78	No
1586	298	186.77	184.27							0.078	0	184.46	
										0.044			
E03A28-23	6.97	186.83	184.33	-0.0370	900	0.000	0.01430	0.06	1.00	0.000	0	184.78	No
1584	299	187.09	184.59							0.000	0	184.78	
										0.000			
E03aA10-22	72.60	182.57	180.07	0.0073	300	0.016	0.00060	0.34	0.08	0.083	0	180.08	No
238	431	182.04	179.54							0.083	0	179.58	
										0.082			
E03SA08-30	92.91	233.97	231.47	0.0861	200	0.016	0.00090	0.96	0.09	0.097	0	231.49	No
836	66	225.97	223.47							0.096	0	223.51	
										0.095			
E04A04-15	124.01	186.44	183.94	0.0077	200	0.016	0.00120	0.42	0.18	0.029	0	183.98	No
840	81	185.48	182.98							0.029	0	183.02	
										0.028			
E04A05-7	180.40	189.44	186.94	0.0107	225	0.016	0.00100	0.46	0.14	0.047	0	186.94	No
22	126	187.50	185.00							0.047	0	185.07	
										0.046			
E04A07-15	105.00	187.65	185.15	0.0123	250	0.016	0.00160	0.50	0.12	0.066	0	185.17	No
942	237	186.36	183.86							0.066	0	183.94	
										0.064			
E04A07-55	88.00	188.15	185.65	0.0057	250	0.016	0.00160	0.37	0.15	0.045	0	185.69	No
940	201	187.65	185.15							0.045	0	185.19	
										0.043			
E04A08-27	130.00	185.92	183.42	0.0160	300	0.016	0.00160	0.58	0.10	0.123	0	183.45	No
944	276	183.85	181.35							0.122	0	181.38	
										0.120			
E04A08-MAIN	46.05	183.85	181.35	0.0163	300	0.016	0.00160	0.58	0.10	0.124	0	181.37	No
946	337	183.10	180.60							0.123	0	180.65	
										0.122			
E04A09-17	88.40	182.51	180.01	0.0182	300	0.015	0.00010	0.36	0.04	0.131	0	180.01	No
196	390	180.90	178.40							0.130	0	178.53	
										0.130			
E04A09-18	91.40	183.14	180.64	0.0069	300	0.015	0.00010	0.22	0.04	0.081	0	180.65	No
194	360	182.51	180.01							0.080	0	180.02	
										0.080			
E04A11-25	105.80	185.76	183.26	0.0209	225	0.016	0.00240	0.71	0.16	0.065	0	183.30	No
272	458	183.55	181.05							0.065	0	181.09	
										0.062			
E04A11-29	78.50	187.37	184.87	0.0205	225	0.016	0.00240	0.70	0.16	0.064	0	184.91	No
270	478	185.76	183.26							0.064	0	183.30	
										0.062			

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E04A12-07 360	520	13.50	187.71 187.55	185.21 185.05	0.0118	225	0.016	0.00170	0.53	0.16	0.049 0.049 0.047	0 0	185.25 185.09	No
E04A12-10 358	518	178.90	188.41 187.71	185.91 185.21	0.0039	225	0.017	0.00170	0.33	0.19	0.028 0.028 0.026	0 0	185.96 185.25	No
E04A13-07 1216	525	11.01	187.74 187.36	185.24 184.86	0.0347	525	0.016	0.01960	1.42	0.13	0.803 0.800 0.781	0 0	185.31 184.93	No
E04A13-08 1214	553	124.44	189.48 187.74	186.98 185.24	0.0140	525	0.016	0.01960	0.97	0.15	0.510 0.508 0.488	0 0	187.06 185.32	No
E04A13-15 1212	574	60.67	190.27 189.48	187.77 186.98	0.0130	450	0.017	0.01770	0.96	0.19	0.326 0.325 0.307	0 0	187.86 187.07	No
E04A14-16 1210	588	72.27	191.23 190.27	188.73 187.77	0.0133	450	0.017	0.01770	0.97	0.19	0.330 0.328 0.311	0 0	188.78 187.86	No
E04A14-17 1208	589	15.00	193.17 191.23	190.67 188.73	0.1293	450	0.016	0.01770	2.24	0.11	1.028 1.024 1.007	0 0	190.70 188.82	No
E04A14-18 1206	591	18.04	196.72 193.17	194.22 190.67	0.1968	450	0.016	0.01770	2.54	0.09	1.269 1.264 1.246	0 0	194.22 190.72	No
E04A16-05 430	325	86.00	189.93 189.43	187.43 186.93	0.0057	250	0.016	0.00090	0.34	0.12	0.045 0.045 0.044	0 0	187.46 186.96	No
E04A17-03 1070	645	52.86	188.59 188.09	186.09 185.59	0.0095	300	0.016	0.03000	1.01	0.45	0.095 0.094 0.064	0 0	186.23 185.72	No
E04A17-04 434	637	67.40	188.99 188.59	186.49 186.09	0.0059	250	0.016	0.00090	0.35	0.12	0.046 0.046 0.045	0 0	186.49 186.23	No
E04A17-52 432	626	77.10	189.43 188.99	186.93 186.49	0.0058	250	0.016	0.00090	0.34	0.12	0.045 0.045 0.044	0 0	186.95 186.52	No
E04S03-15 820	58	24.30	185.69 185.48	183.19 182.98	0.0089	200	0.016	0.00030	0.31	0.09	0.031 0.031 0.031	0 0	183.19 183.01	No
E04S04-14 842	59	65.00	185.48 184.20	182.98 181.70	0.0197	200	0.016	0.00160	0.61	0.15	0.046 0.046 0.044	0 0	183.01 181.73	No
E04S05-09 1170	67	79.76	213.00 212.73	210.50 210.23	0.0034	400	0.017	0.01920	0.60	0.32	0.121 0.120 0.101	0 0	210.63 210.36	No

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E04S05-09 832	64	62.23	213.17 212.73	210.67 210.23	0.0071	225	0.016	0.00040	0.28	0.08	0.038 0.038 0.037	0 0	210.67 210.35	No
E04S05-10 830	71	54.70	213.77 213.17	211.27 210.67	0.0109	225	0.016	0.00040	0.35	0.08	0.047 0.047 0.046	0 0	211.29 210.69	No
E04S05-14 822	60	5.50	184.20 184.20	181.70 181.70	0.0000	100	0.000	0.00010	0.06	1.00	0.000 0.000 0.000	0 0	181.71 181.71	No
E04S06-12 1168	69	9.10	215.96 213.00	213.46 210.50	0.3253	200	0.016	0.00100	1.46	0.06	0.188 0.187 0.186	0 0	213.46 210.63	No
E04S06-13 1166	72	91.40	217.11 215.96	214.61 213.46	0.0126	200	0.016	0.00080	0.44	0.12	0.037 0.037 0.036	0 0	214.63 213.48	No
E04S07-16 890	75	96.00	217.42 217.11	214.92 214.61	0.0032	225	0.016	0.00780	0.48	0.43	0.026 0.026 0.018	0 0	214.92 214.72	No
E04S07A-19 862	78	62.15	220.01 217.42	217.51 214.92	0.0416	225	0.016	0.00400	1.00	0.16	0.092 0.092 0.088	0 0	217.53 215.02	No
E04S08-27 860	79	35.11	223.27 220.01	220.77 217.51	0.0928	200	0.016	0.00400	1.33	0.15	0.100 0.100 0.096	0 0	220.77 217.55	No
E04S08-28 858	82	93.60	236.09 223.27	233.59 220.77	0.1370	200	0.016	0.00120	1.21	0.09	0.122 0.121 0.120	0 0	233.59 220.80	No
E04SA06-6 12	86	57.62	213.75 212.29	211.25 209.79	0.0253	300	0.016	0.00110	0.64	0.08	0.154 0.154 0.153	0 0	211.25 209.83	No
E04SA06-7 10	87	48.78	215.86 213.75	213.36 211.25	0.0433	300	0.016	0.00110	0.70	0.06	0.202 0.201 0.200	0 0	213.36 211.27	No
E04SB01-17 864	83	77.10	186.67 186.41	184.17 183.91	0.0034	225	0.016	0.00030	0.19	0.08	0.026 0.026 0.026	0 0	184.17 184.08	No
E05A01-43 744	24	99.40	215.24 214.74	212.74 212.24	0.0050	200	0.017	0.00230	0.40	0.24	0.023 0.023 0.021	0 0	212.79 212.29	No
E05A01-44 746	30	89.00	214.74 214.25	212.24 211.75	0.0056	200	0.017	0.00230	0.42	0.24	0.025 0.024 0.022	0 0	212.29 211.82	No
E05A01-44 752	32	89.00	214.64 214.25	212.14 211.75	0.0044	200	0.017	0.00300	0.42	0.30	0.022 0.022 0.019	0 0	212.14 211.82	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E05A01-46 750	28	53.60	214.92 214.64	212.42 212.14	0.0052	200	0.017	0.00300	0.46	0.30	0.024 0.024 0.021	0 0	212.45 212.20	No
E05A01-47 748	25	66.40	215.23 214.92	212.73 212.42	0.0047	200	0.017	0.00300	0.44	0.30	0.023 0.023 0.020	0 0	212.79 212.48	No
E05A04-14 828	65	43.92	185.54 184.20	183.04 181.70	0.0305	200	0.016	0.00010	0.45	0.06	0.058 0.057 0.057	0 0	183.05 181.71	No
E05A04-9 846	101	114.84	190.26 189.71	187.76 187.21	0.0048	225	0.016	0.00120	0.34	0.16	0.031 0.031 0.030	0 0	187.79 187.25	No
E05A05-10 24	129	173.90	192.99 190.16	190.49 187.66	0.0163	225	0.016	0.00140	0.57	0.14	0.057 0.057 0.056	0 0	190.52 187.69	No
E05A07-18 1262	239	112.00	191.52 189.56	189.02 187.06	0.0175	300	0.016	0.00520	0.78	0.16	0.128 0.128 0.122	0 0	189.05 187.12	No
E05A07-20 1152	205	8.20	191.75 191.52	189.25 189.02	0.0287	300	0.016	0.00050	0.57	0.06	0.164 0.164 0.163	0 0	189.25 189.06	No
E05A07-21 1150	202	26.70	191.87 191.75	189.37 189.25	0.0046	300	0.016	0.00050	0.27	0.08	0.066 0.066 0.065	0 0	189.40 189.27	No
E05A08-14 146	342	131.47	187.37 185.26	184.87 182.76	0.0161	300	0.016	0.00250	0.65	0.12	0.123 0.122 0.120	0 0	184.89 182.80	No
E05A08-15 130	257	60.00	189.01 187.37	186.51 184.87	0.0273	300	0.016	0.00140	0.66	0.08	0.160 0.160 0.158	0 0	186.51 184.91	No
E05A09-14 1355	351	43.13	185.61 185.26	183.11 182.76	0.0082	300	0.016	0.00020	0.30	0.06	0.088 0.088 0.087	0 0	183.11 182.80	No
E05A09-22 1384	397	76.37	184.13 183.41	181.63 180.91	0.0095	300	0.016	0.00250	0.54	0.14	0.095 0.094 0.092	0 0	181.65 181.02	No
E05A09-23 1382	373	95.32	185.08 184.13	182.58 181.63	0.0099	300	0.016	0.00080	0.40	0.08	0.097 0.096 0.095	0 0	182.58 181.67	No
E05A16-10 414	335	105.80	211.78 211.44	209.28 208.94	0.0032	225	0.017	0.00150	0.30	0.19	0.025 0.025 0.024	0 0	209.28 209.07	No
E05A16-11 412	623	71.00	212.01 211.78	209.51 209.28	0.0033	225	0.017	0.00150	0.31	0.19	0.026 0.026 0.024	0 0	209.54 209.32	No

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E05A16-12 410	604	33.50	212.15 212.01	209.65 209.51	0.0041	200	0.017	0.00150	0.33	0.21	0.021 0.021 0.020	0 0	209.69 209.56	No
E05A17-09a 1062	633	41.20	211.44 211.08	208.94 208.58	0.0088	300	0.016	0.02510	0.95	0.43	0.091 0.091 0.065	0 0	209.07 208.71	No
E05A17-09b 530	644	82.30	211.81 211.08	209.31 208.58	0.0089	200	0.017	0.00550	0.63	0.34	0.031 0.031 0.025	0 0	209.37 208.66	No
E05A17-15 528	659	91.40	212.29 211.81	209.79 209.31	0.0053	200	0.017	0.00550	0.54	0.40	0.024 0.024 0.018	0 0	209.87 209.39	No
E05A18-16 526	667	96.90	212.48 212.29	209.98 209.79	0.0019	200	0.017	0.00290	0.31	0.37	0.014 0.014 0.012	0 0	210.02 209.87	No
E05A18-17 524	675	121.30	212.95 212.48	210.45 209.98	0.0039	200	0.017	0.00250	0.38	0.27	0.021 0.020 0.018	0 0	210.45 210.05	No
E05A19-18 522	687	73.20	213.19 212.95	210.69 210.45	0.0033	200	0.017	0.00230	0.34	0.27	0.019 0.019 0.016	0 0	210.72 210.51	No
E05A19-20 520	703	86.90	213.66 213.19	211.16 210.69	0.0054	200	0.017	0.00230	0.42	0.24	0.024 0.024 0.022	0 0	211.16 210.75	No
E05A20-01 510	737	72.90	212.96 210.50	210.46 208.00	0.0339	200	0.017	0.00640	1.11	0.27	0.061 0.060 0.054	0 0	210.46 208.10	No
E05A20-02 508	727	104.90	213.45 212.96	210.95 210.46	0.0046	200	0.016	0.00640	0.52	0.43	0.022 0.022 0.016	0 0	211.03 210.55	No
E05A20-03 506	715	40.20	213.59 213.45	211.09 210.95	0.0036	200	0.017	0.00500	0.45	0.40	0.020 0.020 0.015	0 0	211.14 211.03	No
E05AA08-22 154	340	70.90	193.71 191.84	191.21 189.34	0.0264	225	0.016	0.00110	0.64	0.11	0.073 0.073 0.072	0 0	191.22 189.36	No
E05AA08-23 156	347	29.08	191.84 191.16	189.34 188.66	0.0234	225	0.016	0.00110	0.60	0.11	0.069 0.069 0.068	0 0	189.36 188.68	No
E05AOS-23 1002	381	89.14	188.12 184.13	185.62 181.63	0.0448	300	0.016	0.00170	0.85	0.08	0.205 0.204 0.203	0 0	185.62 181.67	No
E05S02-4 856	93	83.80	186.71 186.25	184.21 183.75	0.0054	225	0.017	0.00580	0.53	0.33	0.033 0.033 0.027	0 0	184.25 184.00	Yes

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
										Qexcess			
E05S03-18 850	96	81.49	187.50 187.23	185.00 184.73	0.0033	225	0.017	0.00350	0.39	0.30	0	185.07 184.80	No
E05S03-5 854	97	70.43	186.71 186.71	184.21 184.21	0.0000	225	0.000	0.00580	0.15	1.00	0	184.28 184.28	No
E05S04-6 852	98	69.20	187.23 186.71	184.73 184.21	0.0076	225	0.017	0.00580	0.59	0.30	0	184.77 184.28	No
E05S04-7 848	100	71.29	189.71 187.50	187.21 185.00	0.0310	300	0.016	0.00260	0.80	0.10	0	187.23 185.07	No
E05S05-1 20	109	51.80	213.33 212.00	210.83 209.50	0.0257	200	0.016	0.00080	0.62	0.12	0	210.83 209.64	No
E05S05-10 26	102	12.20	190.16 189.71	187.66 187.21	0.0373	225	0.016	0.00140	0.76	0.11	0	187.69 187.24	No
E05S05-2 18	111	19.80	213.39 213.33	210.89 210.83	0.0031	200	0.016	0.00080	0.27	0.18	0	210.93 210.87	No
E05S05-3 16	113	53.30	213.73 213.39	211.23 210.89	0.0063	200	0.016	0.00080	0.34	0.15	0	211.23 210.93	No
E05S07-6 1286	122	37.50	217.54 216.21	215.04 213.71	0.0354	225	0.016	0.00260	0.84	0.14	0	215.07 213.78	No
E05S07-7 1284	124	33.14	219.83 217.54	217.33 215.04	0.0693	225	0.016	0.00260	1.17	0.14	0	217.35 215.07	No
E05S07-8 1277	125	60.82	220.69 219.83	218.19 217.33	0.0141	225	0.016	0.00130	0.53	0.14	0	218.22 217.36	No
E05S07-8 1282	136	53.21	222.93 219.83	220.43 217.33	0.0582	225	0.016	0.00130	0.94	0.11	0	220.43 217.36	No
E05S08-10 1278	140	68.69	227.72 226.19	225.22 223.69	0.0223	225	0.016	0.00130	0.58	0.11	0	225.25 223.72	No
E05S08-12 1273	130	55.79	227.72 226.08	225.22 223.58	0.0295	225	0.016	0.00130	0.67	0.11	0	225.25 223.60	No
E05S08-13 1275	114	110.60	226.08 220.69	223.58 218.19	0.0487	225	0.016	0.00130	0.86	0.11	0	223.58 218.22	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
E05S08-9 1280	138	115.30	226.19 222.93	223.69 220.43	0.0283	225	0.016	0.00130	0.66	0.11	0.076 0.075 0.074	0 0	223.72 220.46	No
E05SA01-03 900	116	76.00	186.33 185.39	183.83 182.89	0.0124	225	0.016	0.00080	0.44	0.11	0.050 0.050 0.049	0 0	183.85 183.00	No
E05SA01-4 898	112	70.50	186.72 186.33	184.22 183.83	0.0056	225	0.016	0.00080	0.33	0.14	0.034 0.034 0.033	0 0	184.25 183.86	No
E06A01-29 8	36	36.50	215.42 215.17	212.92 212.67	0.0069	250	0.016	0.00140	0.41	0.15	0.049 0.049 0.048	0 0	212.92 212.73	No
E06A01-32 2	27	30.40	216.01 215.86	213.51 213.36	0.0050	250	0.016	0.00140	0.35	0.15	0.042 0.042 0.041	0 0	213.55 213.40	No
E06A01-52 6	35	50.30	215.62 215.42	213.12 212.92	0.0039	250	0.016	0.00140	0.34	0.17	0.037 0.037 0.036	0 0	213.16 212.96	No
E06A01-53 4	33	49.70	215.86 215.62	213.36 213.12	0.0049	250	0.016	0.00140	0.35	0.15	0.042 0.042 0.040	0 0	213.36 213.16	No
E06A02-29 772	39	65.50	215.39 215.17	212.89 212.67	0.0034	250	0.016	0.00150	0.32	0.17	0.035 0.035 0.033	0 0	212.94 212.73	No
E06A02-30 770	40	94.50	215.71 215.39	213.21 212.89	0.0033	250	0.016	0.00150	0.31	0.17	0.034 0.034 0.033	0 0	213.25 212.94	No
E06A03-12 804	68	45.52	213.16 213.00	210.66 210.50	0.0036	400	0.017	0.01830	0.61	0.30	0.126 0.125 0.107	0 0	210.66 210.63	No
E06A03-13 826	70	43.60	217.30 215.96	214.80 213.46	0.0307	225	0.015	0.00020	0.45	0.05	0.079 0.079 0.078	0 0	214.80 213.47	No
E06A03-14 824	62	26.09	217.38 217.30	214.88 214.80	0.0034	225	0.016	0.00020	0.19	0.08	0.026 0.026 0.026	0 0	214.90 214.81	No
E06A03-15 802	61	66.39	213.37 213.16	210.87 210.66	0.0031	400	0.017	0.01830	0.58	0.32	0.116 0.115 0.097	0 0	210.99 210.79	No
E06A03-17 800	54	66.20	213.62 213.37	211.12 210.87	0.0038	400	0.017	0.01830	0.62	0.30	0.128 0.128 0.110	0 0	211.12 210.99	No
E06A04-1 1176	110	94.88	212.16 212.00	209.66 209.50	0.0017	400	0.017	0.02370	0.49	0.41	0.086 0.086 0.062	0 0	209.83 209.67	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E06A04-5 1174	91	61.58	212.42 212.16	209.92 209.66	0.0042	400	0.017	0.02290	0.68	0.32	0.136 0.135 0.112	0 0	210.00 209.83	No
E06A04-8 1172	85	82.30	212.73 212.42	210.23 209.92	0.0037	400	0.017	0.01950	0.62	0.30	0.128 0.127 0.108	0 0	210.30 210.05	No
E06A05-13 1300	142	70.10	205.04 199.55	202.54 197.05	0.0783	450	0.016	0.03860	2.26	0.18	0.800 0.797 0.758	0 0	202.62 197.13	No
E06A05-16 1180	144	87.92	211.68 210.37	209.18 207.87	0.0149	400	0.017	0.02430	1.09	0.24	0.255 0.254 0.229	0 0	209.28 207.97	No
E06A05-49 1178	123	91.40	212.00 211.68	209.50 209.18	0.0035	400	0.017	0.02430	0.65	0.35	0.124 0.123 0.099	0 0	209.64 209.32	No
E06A09-25 182	413	47.90	213.27 211.13	210.77 208.63	0.0447	300	0.016	0.00190	0.85	0.08	0.205 0.204 0.202	0 0	210.79 208.70	No
E06A09-26 180	394	60.70	213.83 213.27	211.33 210.77	0.0092	225	0.016	0.00190	0.47	0.16	0.043 0.043 0.041	0 0	211.37 210.81	No
E06A09-27 178	380	100.30	214.34 213.83	211.84 211.33	0.0050	225	0.017	0.00190	0.38	0.19	0.032 0.032 0.030	0 0	211.88 211.37	No
E06A15-23 378	568	13.70	214.56 214.34	212.06 211.84	0.0161	200	0.016	0.00130	0.55	0.15	0.042 0.042 0.040	0 0	212.08 211.87	No
E06A15-65 380	560	76.20	214.34 212.99	211.84 210.49	0.0177	200	0.016	0.00130	0.58	0.15	0.044 0.044 0.042	0 0	211.84 210.56	No
E06A15-66 376	581	53.30	214.72 214.56	212.22 212.06	0.0030	200	0.017	0.00130	0.29	0.21	0.018 0.018 0.017	0 0	212.26 212.10	No
E06A16-27 388	327	104.17	214.22 213.72	211.72 211.22	0.0048	225	0.017	0.00300	0.42	0.24	0.031 0.031 0.028	0 0	211.78 211.32	No
E06A16-29 386	613	112.84	214.54 214.22	212.04 211.72	0.0028	225	0.017	0.00300	0.36	0.30	0.024 0.024 0.021	0 0	212.11 211.79	No
E06A17-27 464	634	97.11	214.18 213.72	211.68 211.22	0.0048	225	0.017	0.00240	0.40	0.22	0.031 0.031 0.029	0 0	211.68 211.32	No
E06A17-28 462	651	98.24	214.44 214.18	211.94 211.68	0.0026	225	0.017	0.00240	0.33	0.27	0.023 0.023 0.021	0 0	212.00 211.75	No

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E06A18-23 480	664	95.70	213.46 213.18	210.96 210.68	0.0029	225	0.017	0.00170	0.31	0.22	0.024 0.024 0.023	0 0	211.00 210.73	No
E06A18-25 478	671	100.60	214.09 213.46	211.59 210.96	0.0063	225	0.017	0.00170	0.42	0.19	0.036 0.036 0.034	0 0	211.59 211.00	No
E06A19-05 488	704	110.00	214.62 214.23	212.12 211.73	0.0036	200	0.017	0.00210	0.36	0.27	0.020 0.020 0.018	0 0	212.15 211.80	No
E06A19-06 486	685	101.70	214.87 214.62	212.37 212.12	0.0024	200	0.017	0.00210	0.31	0.30	0.016 0.016 0.014	0 0	212.43 212.18	No
E06A21-13 598	752	78.00	211.01 210.75	208.51 208.25	0.0033	375	0.016	0.00340	0.37	0.15	0.101 0.101 0.097	0 0	208.54 208.40	No
E06A21-47 596	759	51.00	211.13 211.01	208.63 208.51	0.0024	375	0.016	0.00250	0.30	0.13	0.085 0.085 0.083	0 0	208.63 208.57	No
E06A21-48 594	763	63.50	211.29 211.13	208.79 208.63	0.0025	375	0.016	0.00150	0.28	0.11	0.088 0.088 0.086	0 0	208.81 208.68	No
E06A21-49 592	769	54.00	211.41 211.29	208.91 208.79	0.0022	375	0.016	0.00100	0.24	0.10	0.083 0.083 0.082	0 0	208.91 208.83	No
E06S01-1 1314	118	19.80	184.09 184.00	181.59 181.50	0.0043	525	0.016	0.08000	0.95	0.42	0.283 0.282 0.202	0 0	181.80 181.72	No
E06S01-1 1312	119	41.23	185.39 184.09	182.89 181.59	0.0316	750	0.016	0.08000	1.88	0.15	1.983 1.976 1.896	0 0	182.89 181.80	No
E06S02-2 1310	127	149.10	186.43 185.39	183.93 182.89	0.0070	750	0.016	0.04090	0.91	0.16	0.935 0.931 0.891	0 0	184.05 183.01	No
E06S03-6 1308	133	79.89	188.13 186.43	185.63 183.93	0.0213	750	0.016	0.03950	1.37	0.12	1.629 1.622 1.583	0 0	185.63 184.05	No
E06S03-9 1306	135	81.40	189.72 188.13	187.22 185.63	0.0196	600	0.016	0.03950	1.36	0.17	0.861 0.858 0.818	0 0	187.33 185.74	No
E06S04-11 1304	137	67.40	194.26 189.72	191.76 187.22	0.0673	450	0.016	0.03950	2.10	0.18	0.742 0.739 0.699	0 0	191.81 187.33	No
E06S05-12 1302	139	67.40	199.55 194.26	197.05 191.76	0.0786	450	0.016	0.03860	2.27	0.18	0.802 0.798 0.760	0 0	197.13 191.84	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E06S06-15 1298	143	72.20	210.37 205.04	207.87 202.54	0.0739	450	0.016	0.03860	2.20	0.18	0.777 0.774 0.736	0 0	207.92 202.62	No
E06S07-1 1292	152	19.20	215.35 215.19	212.85 212.69	0.0083	225	0.016	0.01480	0.82	0.49	0.041 0.041 0.026	0 0	212.96 212.80	No
E06S07-1 46	150	94.40	222.72 215.35	220.22 212.85	0.0781	225	0.016	0.00080	0.92	0.08	0.126 0.125 0.125	0 0	220.24 212.96	No
E06S07-1 934	153	43.30	217.81 215.19	215.31 212.69	0.0605	300	0.016	0.00280	1.12	0.10	0.239 0.238 0.235	0 0	215.33 212.80	No
E06S07-16 34	149	119.51	214.71 210.37	212.21 207.87	0.0362	375	0.015	0.00080	0.65	0.05	0.335 0.333 0.333	0 0	212.21 207.95	No
E06S07-16 1296	145	16.20	213.96 210.37	211.46 207.87	0.2214	450	0.016	0.01830	2.70	0.09	1.345 1.340 1.322	0 0	211.46 207.95	No
E06S07-17 1294	151	172.12	215.19 213.96	212.69 211.46	0.0071	300	0.017	0.01720	0.78	0.37	0.082 0.082 0.064	0 0	212.80 211.57	No
E06S07-18 930	157	6.45	221.20 220.96	218.70 218.46	0.0374	225	0.016	0.00250	0.86	0.14	0.087 0.087 0.084	0 0	218.73 218.49	No
E06S07-2 932	155	45.70	220.96 217.81	218.46 215.31	0.0690	300	0.016	0.00280	1.05	0.08	0.255 0.254 0.251	0 0	218.48 215.34	No
E06S07-2 42	159	70.80	226.83 225.31	224.33 222.81	0.0215	225	0.016	0.00080	0.57	0.11	0.066 0.066 0.065	0 0	224.36 222.83	No
E06S07-3 928	160	163.40	228.09 221.20	225.59 218.70	0.0422	225	0.016	0.00250	0.91	0.14	0.093 0.092 0.090	0 0	225.62 218.73	No
E06S07-36 44	154	86.70	225.31 222.72	222.81 220.22	0.0299	225	0.016	0.00080	0.57	0.08	0.078 0.078 0.077	0 0	222.83 220.24	No
E06S08-4 926	161	57.26	231.17 228.09	228.67 225.59	0.0537	225	0.016	0.00250	1.03	0.14	0.104 0.104 0.101	0 0	228.69 225.62	No
E06S08-5 924	162	111.30	234.76 231.17	232.26 228.67	0.0323	225	0.016	0.00250	0.80	0.14	0.081 0.081 0.078	0 0	232.29 228.70	No
E06S09-13 60	179	13.01	245.25 245.02	242.75 242.52	0.0181	300	0.014	0.00010	0.24	0.02	0.131 0.130 0.130	0 0	242.76 242.54	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E06S09-13 914	178	90.00	246.25 245.02	243.75 242.52	0.0137	300	0.014	0.00010	0.21	0.02	0.113 0.113 0.113	0 0	243.75 242.54	No
E06S09-14 912	158	107.00	250.38 246.25	247.88 243.75	0.0386	300	0.014	0.00010	0.35	0.02	0.191 0.190 0.190	0 0	247.89 243.75	No
E06S09-15 910	134	88.00	255.13 250.38	252.63 247.88	0.0540	300	0.014	0.00010	0.42	0.02	0.225 0.224 0.224	0 0	252.64 247.89	No
E06S09-19 58	184	128.68	245.86 245.25	243.36 242.75	0.0047	300	0.015	0.00010	0.18	0.04	0.067 0.066 0.066	0 0	243.37 242.76	No
E06S09-6 922	163	13.70	235.46 234.76	232.96 232.26	0.0508	200	0.016	0.00150	0.88	0.12	0.074 0.074 0.072	0 0	232.98 232.29	No
E06S09-7 920	167	38.60	237.46 235.46	234.96 232.96	0.0518	200	0.016	0.00110	0.89	0.12	0.075 0.075 0.073	0 0	234.98 232.98	No
E06S09-8 918	168	12.30	238.41 237.46	235.91 234.96	0.0769	200	0.016	0.00110	0.91	0.09	0.091 0.091 0.090	0 0	235.91 234.98	No
E06S09-9 916	177	202.39	245.02 238.41	242.52 235.91	0.0327	300	0.016	0.00110	0.72	0.08	0.175 0.175 0.173	0 0	242.54 235.93	No
E06SA06- 48	174	128.21	215.71 214.64	213.21 212.14	0.0083	200	0.016	0.00130	0.44	0.18	0.030 0.030 0.029	0 0	213.25 212.18	No
E06SA06-17 50	166	107.60	214.64 213.96	212.14 211.46	0.0063	200	0.016	0.00130	0.38	0.18	0.026 0.026 0.025	0 0	212.16 211.50	No
E06SA07-20 64	199	106.70	223.80 223.51	221.30 221.01	0.0028	225	0.016	0.00080	0.26	0.16	0.024 0.024 0.023	0 0	221.30 221.06	No
E06SA07-21 62	185	80.30	226.08 223.80	223.58 221.30	0.0284	225	0.016	0.00080	0.56	0.08	0.076 0.076 0.075	0 0	223.58 221.34	No
E07A01-28 768	38	76.12	215.09 214.84	212.59 212.34	0.0034	350	0.017	0.00640	0.46	0.23	0.085 0.085 0.078	0 0	212.59 212.45	No
E07A01-34 766	34	91.67	215.37 215.09	212.87 212.59	0.0030	350	0.017	0.00640	0.43	0.23	0.080 0.080 0.073	0 0	212.91 212.67	No
E07A01-35 764	26	80.70	215.61 215.37	213.11 212.87	0.0030	350	0.017	0.00640	0.43	0.23	0.080 0.080 0.073	0 0	213.19 212.95	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E07A01-36 762	23	61.60	216.06 215.61	213.56 213.11	0.0073	250	0.017	0.00640	0.62	0.29	0.051 0.051 0.044	0 0	213.60 213.19	No
E07A01-37 738	20	42.60	216.29 216.06	213.79 213.56	0.0055	250	0.016	0.00020	0.25	0.07	0.044 0.044 0.044	0 0	213.79 213.63	No
E07A02-20 792	48	75.80	214.23 213.96	211.73 211.46	0.0035	400	0.017	0.01660	0.58	0.29	0.123 0.122 0.106	0 0	211.84 211.58	No
E07A02-21 778	45	75.00	214.52 214.23	212.02 211.73	0.0039	400	0.017	0.01390	0.57	0.26	0.130 0.129 0.115	0 0	212.08 211.84	No
E07A02-22 790	46	6.76	215.90 214.23	213.40 211.73	0.2480	200	0.016	0.00310	1.94	0.12	0.164 0.163 0.160	0 0	213.42 211.84	No
E07A02-22 776	41	107.20	214.84 214.52	212.34 212.02	0.0030	400	0.017	0.01390	0.52	0.27	0.115 0.114 0.100	0 0	212.45 212.13	No
E07A02-23 788	47	30.50	216.29 215.90	213.79 213.40	0.0126	200	0.017	0.00290	0.59	0.21	0.037 0.037 0.034	0 0	213.83 213.45	No
E07A02-24 780	42	25.00	216.44 216.29	213.94 213.79	0.0060	200	0.016	0.00010	0.20	0.06	0.026 0.025 0.025	0 0	213.94 213.83	No
E07A02-60 794	50	26.05	213.96 213.79	211.46 211.29	0.0067	400	0.017	0.01660	0.73	0.24	0.171 0.170 0.153	0 0	211.52 211.42	No
E07A04-14 894	106	92.00	216.80 216.47	214.30 213.97	0.0036	225	0.016	0.01010	0.53	0.49	0.027 0.027 0.017	0 0	214.30 214.10	No
E07A04-14 896	121	103.40	216.47 216.21	213.97 213.71	0.0026	225	0.016	0.01080	0.50	0.57	0.023 0.023 0.012	0 0	214.10 213.84	No
E07A04-15 892	89	93.81	217.11 216.80	214.61 214.30	0.0033	225	0.016	0.00920	0.52	0.49	0.026 0.026 0.017	0 0	214.67 214.41	No
E07A05-1 1290	146	74.10	215.35 215.35	212.85 212.85	0.0000	225	0.000	0.01390	0.35	1.00	0.000 0.000 0.000	0 0	212.97 212.96	No
E07A05-4 1288	132	27.67	216.21 215.35	213.71 212.85	0.0310	225	0.017	0.01310	1.26	0.33	0.079 0.079 0.066	0 0	213.71 213.02	No
E07A05-4 28	131	19.63	216.63 215.35	214.13 212.85	0.0653	225	0.016	0.00060	0.84	0.08	0.115 0.115 0.114	0 0	214.14 213.02	No

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E07A06-17 54	197	105.50	217.44 216.43	214.94 213.93	0.0095	225	0.016	0.00140	0.43	0.14	0.044 0.044 0.042	0 0	214.94 214.01	No
E07A06-18 52	180	62.80	218.04 217.44	215.54 214.94	0.0096	225	0.016	0.00140	0.44	0.14	0.044 0.044 0.043	0 0	215.57 214.97	No
E07A06-27 78	226	69.50	218.08 217.03	215.58 214.53	0.0152	225	0.016	0.00030	0.41	0.08	0.056 0.055 0.055	0 0	215.58 214.56	No
E07A07-27 88	249	92.60	219.11 217.03	216.61 214.53	0.0225	225	0.016	0.00050	0.50	0.08	0.068 0.067 0.067	0 0	216.61 214.56	No
E07A08-32 162	356	48.20	217.45 217.17	214.95 214.67	0.0058	225	0.016	0.00130	0.37	0.16	0.034 0.034 0.033	0 0	214.99 214.73	No
E07A08-33 160	344	55.50	218.26 217.45	215.76 214.95	0.0146	225	0.016	0.00130	0.54	0.14	0.054 0.054 0.053	0 0	215.76 214.99	No
E07A08-34 158	315	74.70	219.69 218.26	217.19 215.76	0.0191	225	0.016	0.00130	0.61	0.14	0.062 0.062 0.061	0 0	217.22 215.79	No
E07A09-31 214	387	118.60	217.17 216.37	214.67 213.87	0.0068	300	0.017	0.00530	0.55	0.20	0.080 0.079 0.074	0 0	214.73 213.93	No
E07A09-34 80	238	76.80	247.61 246.08	245.11 243.58	0.0199	250	0.015	0.00030	0.37	0.05	0.084 0.084 0.084	0 0	245.12 243.59	No
E07A14-24 354	514	59.00	215.19 214.77	212.69 212.27	0.0071	150	0.016	0.00040	0.31	0.16	0.013 0.013 0.012	0 0	212.69 212.37	No
E07A15-24 1194	532	81.90	215.20 214.77	212.70 212.27	0.0053	300	0.016	0.00230	0.40	0.14	0.070 0.070 0.068	0 0	212.72 212.37	No
E07A15-27 374	565	125.90	216.20 215.20	213.70 212.70	0.0079	225	0.016	0.00130	0.40	0.14	0.040 0.040 0.039	0 0	213.70 212.74	No
E07A16-31 424	320	76.20	214.95 214.53	212.45 212.03	0.0055	200	0.017	0.00150	0.39	0.21	0.024 0.024 0.023	0 0	212.49 212.15	No
E07A16-34 422	612	97.50	215.31 214.95	212.81 212.45	0.0038	200	0.017	0.00150	0.32	0.21	0.020 0.020 0.019	0 0	212.85 212.49	No
E07A17-31 460	632	109.70	215.56 214.53	213.06 212.03	0.0094	200	0.017	0.00320	0.54	0.24	0.032 0.032 0.029	0 0	213.10 212.15	No

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E07A17-32 458	648	107.50	215.98 215.56	213.48 213.06	0.0040	200	0.017	0.00320	0.40	0.30	0.021 0.021 0.018	0 0	213.54 213.12	No
E07A19-10 498	698	104.20	216.35 215.96	213.85 213.46	0.0037	200	0.017	0.00300	0.39	0.30	0.020 0.020 0.017	0 0	213.88 213.52	No
E07A19-11 496	679	108.20	216.77 216.35	214.27 213.85	0.0040	200	0.017	0.00300	0.40	0.30	0.021 0.021 0.018	0 0	214.34 213.91	No
E07A20-14 536	728	15.80	214.98 210.98	212.48 208.48	0.2529	250	0.016	0.00180	1.67	0.07	0.300 0.299 0.297	0 0	212.48 208.65	No
E07A20-15 534	726	76.20	215.28 214.98	212.78 212.48	0.0040	250	0.016	0.00180	0.34	0.17	0.038 0.038 0.036	0 0	212.83 212.52	No
E07A20-16 532	716	79.53	215.77 215.28	213.27 212.78	0.0062	250	0.016	0.00180	0.42	0.17	0.047 0.047 0.045	0 0	213.32 212.83	No
E07A26-11 676	811	55.40	200.25 199.52	197.75 197.02	0.0132	200	0.017	0.00660	0.77	0.34	0.038 0.038 0.031	0 0	197.82 197.09	No
E07A26-12 642	304	65.80	202.58 200.25	200.08 197.75	0.0353	200	0.017	0.00520	1.06	0.24	0.062 0.062 0.056	0 0	200.10 197.82	No
E07A26-13 640	301	49.80	205.54 202.58	203.04 200.08	0.0594	200	0.016	0.00410	1.17	0.18	0.080 0.080 0.076	0 0	203.04 200.12	No
E07A26-27 638	294	82.10	212.48 205.54	209.98 203.04	0.0846	200	0.016	0.00160	1.13	0.12	0.096 0.095 0.094	0 0	209.98 203.07	No
E07A26-35 636	290	91.10	213.96 212.48	211.46 209.98	0.0163	200	0.016	0.00160	0.55	0.15	0.042 0.042 0.040	0 0	211.49 210.01	No
E07A26-36 634	286	86.40	214.60 213.96	212.10 211.46	0.0074	200	0.016	0.00160	0.41	0.18	0.028 0.028 0.027	0 0	212.14 211.50	No
E07A27-08 684	821	97.76	199.52 191.48	197.02 188.98	0.0822	200	0.017	0.01360	1.83	0.30	0.094 0.094 0.080	0 0	197.06 189.08	No
E07S01-38 1325	170	81.10	184.54 183.61	182.04 181.11	0.0115	950	0.016	0.01460	0.80	0.06	2.249 2.240 2.226	0 0	182.10 181.17	No
E07S02-03 1323	172	72.57	184.92 184.54	182.42 182.04	0.0052	950	0.016	0.01450	0.60	0.08	1.514 1.508 1.493	0 0	182.49 182.11	No

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E07S02-5 1321	175	76.49	185.41 184.92	182.91 182.42	0.0065	950	0.016	0.01450	0.67	0.08	1.684 1.677 1.663	0 0	182.95 182.49	No
E07S03-6 128	181	90.20	185.83 185.41	183.33 182.91	0.0047	950	0.016	0.01190	0.54	0.07	1.433 1.427 1.415	0 0	183.33 182.98	No
E07S03-9 126	182	57.60	187.36 185.83	184.86 183.33	0.0265	950	0.015	0.01190	1.06	0.05	3.411 3.398 3.386	0 0	184.89 183.40	No
E07S04-10 124	186	71.11	190.19 187.36	187.69 184.86	0.0398	300	0.016	0.01030	1.26	0.18	0.194 0.193 0.183	0 0	187.74 184.91	No
E07S04-13 122	189	77.76	193.96 190.19	191.46 187.69	0.0485	300	0.016	0.01030	1.39	0.18	0.214 0.213 0.203	0 0	191.52 187.74	No
E07S05-13 120	190	71.60	196.23 193.96	193.73 191.46	0.0316	250	0.017	0.01030	1.16	0.24	0.106 0.106 0.095	0 0	193.79 191.52	No
E07S05-14 118	191	67.40	212.64 196.23	210.14 193.73	0.2435	225	0.017	0.01030	2.62	0.19	0.222 0.221 0.211	0 0	210.16 193.79	No
E07S05-15 116	192	118.90	215.35 212.64	212.85 210.14	0.0228	225	0.017	0.00880	1.03	0.30	0.068 0.068 0.059	0 0	212.92 210.21	No
E07S06-16 114	196	116.50	216.43 215.35	213.93 212.85	0.0093	225	0.017	0.00880	0.72	0.35	0.043 0.043 0.034	0 0	214.01 212.93	No
E07S07-17 112	198	105.70	223.51 216.43	221.01 213.93	0.0669	225	0.017	0.00750	1.48	0.22	0.117 0.116 0.109	0 0	221.01 214.01	No
E07S07-20 110	203	105.83	226.46 223.51	223.96 221.01	0.0279	225	0.017	0.00400	0.89	0.19	0.075 0.075 0.071	0 0	223.99 221.06	No
E07S08-23 94	208	78.20	231.10 226.46	228.60 223.96	0.0593	225	0.016	0.00210	0.95	0.11	0.110 0.109 0.107	0 0	228.62 224.01	No
E07S08-26 92	213	92.70	235.16 231.10	232.66 228.60	0.0437	225	0.016	0.00210	0.93	0.14	0.094 0.094 0.092	0 0	232.69 228.63	No
E07S09-27 86	221	108.00	238.72 235.16	236.22 232.66	0.0330	250	0.015	0.00030	0.47	0.05	0.108 0.108 0.108	0 0	236.23 232.69	No
E07S09-30 228	417	94.80	216.37 214.75	213.87 212.25	0.0171	300	0.017	0.00740	0.87	0.20	0.127 0.126 0.119	0 0	213.93 212.34	No

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E07S09-32 84	227	112.50	242.26 238.72	239.76 236.22	0.0315	250	0.015	0.00030	0.46	0.05	0.106 0.105 0.105	0 0	239.78 236.23	No
E07S09-33 82	232	121.00	246.08 242.26	243.58 239.76	0.0315	250	0.015	0.00030	0.46	0.05	0.106 0.106 0.105	0 0	243.59 239.78	No
E07SA05-20 1260	209	45.80	201.60 191.52	199.10 189.02	0.2202	250	0.016	0.00390	1.85	0.10	0.280 0.279 0.275	0 0	199.10 189.06	No
E07SA05-22 1258	210	49.80	208.92 201.60	206.42 199.10	0.1471	250	0.016	0.00380	1.73	0.12	0.229 0.228 0.224	0 0	206.45 199.13	No
E07SA05-24 1256	212	32.30	212.91 208.92	210.41 206.42	0.1234	300	0.016	0.00370	1.41	0.08	0.341 0.339 0.336	0 0	210.43 206.45	No
E07SA05-24 74	211	9.96	210.93 208.92	208.43 206.42	0.2015	250	0.014	0.00020	0.79	0.02	0.268 0.267 0.267	0 0	208.43 206.45	No
E07SA05-25 1254	216	64.50	214.04 212.91	211.54 210.41	0.0175	250	0.016	0.00370	0.71	0.17	0.079 0.079 0.075	0 0	211.58 210.45	No
E07SA05-26 1252	220	90.00	215.48 214.04	212.98 211.54	0.0160	250	0.016	0.00190	0.57	0.12	0.075 0.075 0.073	0 0	212.98 211.58	No
E07SA07-29 1246	234	105.50	226.89 223.40	224.39 220.90	0.0331	225	0.016	0.00060	0.60	0.08	0.082 0.082 0.081	0 0	224.41 220.92	No
E07SA7-27 1248	231	105.02	223.40 217.03	220.90 214.53	0.0607	225	0.016	0.00120	0.81	0.08	0.111 0.111 0.109	0 0	220.91 214.56	No
E08A02-24 808	57	96.00	218.33 217.76	215.83 215.26	0.0059	225	0.017	0.00170	0.41	0.19	0.035 0.035 0.033	0 0	215.83 215.31	No
E08A02-25 806	52	31.00	218.45 218.33	215.95 215.83	0.0039	200	0.017	0.00170	0.35	0.24	0.021 0.021 0.019	0 0	216.00 215.88	No
E08A03-16 818	73	101.40	217.51 217.11	215.01 214.61	0.0039	225	0.017	0.00140	0.33	0.19	0.028 0.028 0.027	0 0	215.01 214.72	No
E08A03-17 816	56	102.10	217.89 217.51	215.39 215.01	0.0037	225	0.017	0.00140	0.32	0.19	0.028 0.027 0.026	0 0	215.43 215.05	No
E08A03-19 810	76	101.50	217.76 217.42	215.26 214.92	0.0034	225	0.017	0.00170	0.33	0.22	0.026 0.026 0.024	0 0	215.29 215.02	No

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E08A04-16 1266	241	11.00	189.22 188.78	186.72 186.28	0.0398	600	0.016	0.01560	1.36	0.09	1.229 1.224 1.208	0 0	186.75 186.35	No
E08A04-21 880	107	27.38	220.67 218.61	218.17 216.11	0.0752	200	0.016	0.00100	0.90	0.09	0.090 0.090 0.089	0 0	218.17 216.14	No
E08A06-23 68	204	106.70	227.07 226.46	224.57 223.96	0.0057	225	0.016	0.00090	0.33	0.14	0.034 0.034 0.033	0 0	224.59 224.01	No
E08A06-24 66	187	83.80	227.60 227.07	225.10 224.57	0.0063	225	0.016	0.00090	0.35	0.14	0.036 0.036 0.035	0 0	225.13 224.60	No
E08A07-23 108	235	92.11	226.50 226.46	224.00 223.96	0.0004	225	0.017	0.00110	0.13	0.30	0.009 0.009 0.008	0 0	224.07 224.03	No
E08A07-36 106	256	96.00	227.53 226.40	225.03 223.90	0.0118	225	0.016	0.00070	0.43	0.11	0.049 0.049 0.048	0 0	225.06 223.92	No
E08A08-40 198	362	169.96	227.59 225.99	225.09 223.49	0.0094	225	0.016	0.00120	0.43	0.14	0.044 0.044 0.042	0 0	225.09 223.53	No
E08A09-38 234	426	93.74	224.44 220.14	221.94 217.64	0.0459	225	0.016	0.00150	0.84	0.11	0.097 0.096 0.095	0 0	221.94 217.72	No
E08A09-39 230	398	95.92	224.94 224.44	222.44 221.94	0.0052	225	0.016	0.00080	0.32	0.14	0.032 0.032 0.031	0 0	222.47 221.97	No
E08A14-31 296	493	49.17	216.65 215.82	214.15 213.32	0.0169	150	0.016	0.00030	0.42	0.12	0.020 0.020 0.019	0 0	214.15 213.42	No
E08A15-31 1084	509	83.54	216.20 215.82	213.70 213.32	0.0046	225	0.016	0.01040	0.59	0.46	0.030 0.030 0.020	0 0	213.80 213.42	No
E08A15-32 1082	11	64.60	216.48 216.20	213.98 213.70	0.0043	225	0.016	0.01010	0.57	0.46	0.030 0.030 0.020	0 0	214.08 213.80	No
E08A15-33 1080	537	95.10	216.79 216.48	214.29 213.98	0.0033	225	0.017	0.00180	0.33	0.22	0.026 0.026 0.024	0 0	214.29 214.08	No
E08A15-34 1078	541	11.60	216.85 216.79	214.35 214.29	0.0052	225	0.017	0.00180	0.38	0.19	0.032 0.032 0.030	0 0	214.37 214.34	No
E08A15-35 372	561	79.66	217.23 216.85	214.73 214.35	0.0048	225	0.016	0.00090	0.31	0.14	0.031 0.031 0.030	0 0	214.73 214.39	No

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E08A-16-38 418	617	81.20	215.46 215.18	212.96 212.68	0.0035	250	0.016	0.00100	0.29	0.15	0.035 0.035 0.034	0 0	212.96 212.80	No
E08A16-42 416	600	88.00	215.72 215.46	213.22 212.96	0.0029	250	0.016	0.00100	0.27	0.15	0.032 0.032 0.031	0 0	213.25 213.00	No
E08A16-44 1052	615	102.60	215.74 215.13	213.24 212.63	0.0060	250	0.017	0.00720	0.59	0.32	0.046 0.046 0.039	0 0	213.32 212.80	No
E08A16-53 1050	597	104.60	216.28 215.74	213.78 213.24	0.0052	250	0.017	0.00720	0.54	0.32	0.043 0.043 0.036	0 0	213.86 213.32	No
E08A17-38 456	332	88.43	215.97 215.18	213.47 212.68	0.0090	225	0.017	0.00290	0.54	0.22	0.043 0.042 0.040	0 0	213.52 212.80	No
E08A17-39 454	642	128.00	216.77 215.97	214.27 213.47	0.0063	225	0.017	0.00290	0.45	0.22	0.036 0.036 0.033	0 0	214.32 213.52	No
E08A19-23 492	691	112.80	216.23 215.56	213.73 213.06	0.0060	200	0.017	0.00210	0.44	0.24	0.026 0.025 0.023	0 0	213.76 213.11	No
E08A19-25 490	674	100.30	217.02 216.23	214.52 213.73	0.0079	200	0.017	0.00210	0.46	0.21	0.029 0.029 0.027	0 0	214.52 213.78	No
E08A20-18 518	723	106.70	215.13 211.60	212.63 209.10	0.0331	200	0.017	0.00420	0.95	0.21	0.060 0.060 0.055	0 0	212.65 209.23	No
E08A20-22 516	708	106.70	215.56 215.13	213.06 212.63	0.0040	200	0.017	0.00250	0.38	0.27	0.021 0.021 0.018	0 0	213.11 212.68	No
E08A21-18 1108	740	110.26	212.16 211.60	209.66 209.10	0.0051	250	0.017	0.00950	0.59	0.37	0.043 0.042 0.033	0 0	209.75 209.23	No
E08A21-19 1106	751	42.00	213.77 212.16	211.27 209.66	0.0383	250	0.017	0.00900	1.21	0.22	0.117 0.116 0.107	0 0	211.30 209.75	No
E08A21-21 1104	761	44.00	213.93 213.77	211.43 211.27	0.0036	250	0.017	0.00590	0.46	0.32	0.036 0.036 0.030	0 0	211.51 211.35	No
E08A22-44 1102	768	71.00	214.17 213.93	211.67 211.43	0.0034	250	0.017	0.00590	0.44	0.32	0.035 0.035 0.029	0 0	211.75 211.51	No
E08A22-45 1100	776	73.00	214.41 214.17	211.91 211.67	0.0033	250	0.017	0.00590	0.45	0.34	0.034 0.034 0.028	0 0	212.00 211.76	No

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E08A22-46 1098	780	26.35	214.55 214.41	212.05 211.91	0.0053	250	0.017	0.00590	0.53	0.29	0.044 0.043 0.037	0 0	212.05 212.00	No
E08A26-27 622	295	47.60	206.15 205.54	203.65 203.04	0.0129	200	0.017	0.00250	0.60	0.21	0.037 0.037 0.035	0 0	203.69 203.08	No
E08A26-28 620	293	117.00	208.83 206.15	206.33 203.65	0.0229	200	0.016	0.00250	0.73	0.18	0.050 0.050 0.047	0 0	206.33 203.69	No
E08A26-29 618	284	99.60	211.69 208.83	209.19 206.33	0.0287	200	0.016	0.00250	0.82	0.18	0.056 0.056 0.053	0 0	209.23 206.37	No
E08A26-30 616	804	85.20	214.42 211.69	211.92 209.19	0.0321	200	0.016	0.00250	0.86	0.18	0.059 0.059 0.056	0 0	211.94 209.23	No
E08AA02-26 782	49	97.50	226.04 220.80	223.54 218.30	0.0538	200	0.016	0.00270	1.01	0.15	0.076 0.076 0.073	0 0	223.57 218.33	No
E08AA02-30 814	63	53.00	226.20 225.97	223.70 223.47	0.0043	200	0.017	0.00180	0.37	0.24	0.022 0.022 0.020	0 0	223.75 223.52	No
E08AA02-33 812	55	64.00	226.52 226.20	224.02 223.70	0.0050	200	0.017	0.00180	0.37	0.21	0.023 0.023 0.021	0 0	224.02 223.75	No
E08AA03-28 838	80	80.14	225.97 223.27	223.47 220.77	0.0338	200	0.016	0.00280	0.88	0.18	0.060 0.060 0.057	0 0	223.51 220.80	No
E08AA04-19 888	90	90.50	218.00 217.42	215.50 214.92	0.0064	200	0.017	0.00200	0.42	0.21	0.026 0.026 0.024	0 0	215.52 215.02	No
E08AA04-20 886	95	79.74	222.36 218.00	219.86 215.50	0.0546	200	0.016	0.00110	0.76	0.09	0.077 0.077 0.076	0 0	219.87 215.54	No
E08AA05-22 884	108	81.53	222.92 222.36	220.42 219.86	0.0069	200	0.016	0.00110	0.36	0.15	0.027 0.027 0.026	0 0	220.45 219.89	No
E08AA05-34 138	275	41.10	194.01 191.13	191.51 188.63	0.0701	225	0.015	0.00050	0.68	0.05	0.119 0.119 0.118	0 0	191.51 188.65	No
E08AA08-21 152	278	42.10	201.70 193.71	199.20 191.21	0.1898	225	0.015	0.00070	1.12	0.05	0.196 0.195 0.195	0 0	199.20 191.23	No
E08AA08-42 206	365	72.50	228.92 228.46	226.42 225.96	0.0064	225	0.016	0.00140	0.39	0.16	0.036 0.036 0.035	0 0	226.46 225.99	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E08aA25-32 626	810	15.50	209.20 208.93	206.70 206.43	0.0174	200	0.016	0.00200	0.64	0.18	0.043 0.043 0.041	0 0	206.70 206.47	No
E08aA25-33 624	808	105.00	213.00 209.20	210.50 206.70	0.0362	200	0.016	0.00200	0.83	0.15	0.063 0.062 0.060	0 0	210.50 206.74	No
E08aA26-12 674	305	76.20	203.27 200.25	200.77 197.75	0.0396	200	0.016	0.00150	0.78	0.12	0.066 0.065 0.064	0 0	200.79 197.82	No
E08aA26-14 672	296	80.10	205.30 203.27	202.80 200.77	0.0253	200	0.016	0.00150	0.69	0.15	0.052 0.052 0.051	0 0	202.83 200.80	No
E08aA26-15 670	289	78.60	206.83 205.30	204.33 202.80	0.0195	200	0.016	0.00150	0.61	0.15	0.046 0.046 0.044	0 0	204.36 202.83	No
E08AB03-31 834	74	33.80	236.51 233.97	234.01 231.47	0.0750	200	0.016	0.00090	0.90	0.09	0.090 0.090 0.089	0 0	234.03 231.49	No
E08S01-1 1350	224	26.34	180.57 180.28	178.07 177.78	0.0113	525	0.017	0.10170	1.44	0.37	0.459 0.457 0.355	0 0	178.27 178.04	No
E08S01-3 1346	219	82.90	182.54 181.02	180.04 178.52	0.0184	600	0.016	0.01780	1.04	0.11	0.834 0.831 0.813	0 0	180.04 178.59	No
E08S01-9 1344	222	21.76	182.69 182.54	180.19 180.04	0.0068	600	0.016	0.01780	0.74	0.15	0.506 0.504 0.486	0 0	180.28 180.13	No
E08S02-10 1342	228	125.00	184.48 182.69	181.98 180.19	0.0143	600	0.016	0.01760	0.97	0.12	0.736 0.733 0.716	0 0	182.02 180.28	No
E08S02-11 1340	229	22.50	184.67 184.48	182.17 181.98	0.0086	600	0.016	0.01760	0.81	0.14	0.572 0.570 0.552	0 0	182.25 182.06	No
E08S03-12 1272	233	123.40	185.99 184.67	183.49 182.17	0.0107	600	0.016	0.01710	0.87	0.13	0.637 0.635 0.618	0 0	183.54 182.25	No
E08S03-14 1270	236	28.13	186.36 185.99	183.86 183.49	0.0132	600	0.016	0.01700	0.93	0.12	0.708 0.705 0.688	0 0	183.86 183.57	No
E08S04-15 1268	240	122.57	188.78 186.36	186.28 183.86	0.0197	600	0.016	0.01560	1.08	0.11	0.865 0.861 0.846	0 0	186.28 183.94	No
E08S04-20 882	105	80.07	218.61 218.00	216.11 215.50	0.0076	200	0.016	0.00100	0.38	0.15	0.029 0.029 0.028	0 0	216.11 215.54	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
										Qexcess			
E08S05-17 1264	242	14.00 189.56 189.22	187.06 186.72	0.0244	600	0.016	0.01560	1.13	0.10	0.961 0.957 0.942	0 0	187.12 186.78	No
E08S05-18 982	243	16.20 190.61 189.56	188.11 187.06	0.0648	450	0.016	0.01090	1.46	0.09	0.728 0.725 0.714	0 0	188.14 187.12	No
E08S05-19 140	269	36.60 191.13 189.68	188.63 187.18	0.0396	225	0.016	0.00050	0.66	0.08	0.090 0.089 0.089	0 0	188.63 187.21	No
E08S05-33 970	254	126.80 219.50 215.24	217.00 212.74	0.0336	225	0.017	0.00830	1.12	0.24	0.083 0.082 0.074	0 0	217.05 212.79	No
E08S05-49 980	244	71.50 198.88 190.61	196.38 188.11	0.1156	375	0.016	0.01090	1.93	0.11	0.598 0.596 0.585	0 0	196.42 188.15	No
E08S05-50 978	246	73.87 206.60 198.88	204.10 196.38	0.1046	375	0.016	0.00830	1.67	0.10	0.569 0.567 0.558	0 0	204.10 196.42	No
E08S05-51 976	247	16.00 207.80 206.60	205.30 204.10	0.0747	375	0.016	0.00830	1.55	0.11	0.481 0.479 0.470	0 0	205.34 204.15	No
E08S05-52 974	248	6.80 208.04 207.80	205.54 205.30	0.0362	375	0.016	0.00830	1.17	0.13	0.335 0.333 0.325	0 0	205.59 205.35	No
E08S05-53 972	250	69.40 215.24 208.04	212.74 205.54	0.1036	225	0.017	0.00830	1.71	0.19	0.145 0.144 0.136	0 0	212.74 205.59	No
E08S07-34 968	255	35.70 221.92 219.50	219.42 217.00	0.0679	225	0.017	0.00830	1.49	0.22	0.117 0.117 0.109	0 0	219.45 217.05	No
E08S07-36 966	260	175.30 227.51 221.92	225.01 219.42	0.0319	225	0.017	0.00830	1.15	0.27	0.080 0.080 0.072	0 0	225.07 219.48	No
E08S08-38 960	263	29.18 242.85 241.34	240.35 238.84	0.0518	250	0.016	0.00640	1.22	0.17	0.136 0.135 0.129	0 0	240.39 238.88	No
E08S09-37 964	261	25.00 228.88 227.51	226.38 225.01	0.0548	250	0.017	0.00830	1.35	0.20	0.140 0.139 0.131	0 0	226.38 225.07	No
E08S09-39 958	271	69.87 244.29 242.85	241.79 240.35	0.0206	250	0.017	0.00640	0.89	0.22	0.086 0.085 0.079	0 0	241.85 240.41	No
E08S09-40 956	277	75.00 244.89 244.29	242.39 241.79	0.0080	300	0.017	0.00640	0.63	0.22	0.087 0.086 0.080	0 0	242.46 241.86	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchg
E08S09-41 954	311	114.00	245.40 244.89	242.90 242.39	0.0045	300	0.016	0.00320	0.42	0.18	0.065 0.065 0.061	0 0	242.90 242.46	No
E08S10-42 952	316	102.00	245.82 245.40	243.32 242.90	0.0041	250	0.017	0.00320	0.42	0.24	0.038 0.038 0.035	0 0	243.38 242.96	No
E08S11-43 950	318	51.00	246.94 245.82	244.44 243.32	0.0220	250	0.016	0.00320	0.73	0.15	0.088 0.088 0.085	0 0	244.44 243.38	No
E08S11-44 948	338	118.00	250.86 246.94	248.36 244.44	0.0332	250	0.016	0.00320	0.90	0.15	0.109 0.108 0.105	0 0	248.40 244.48	No
E08SA05-15 144	258	79.82	189.36 187.37	186.86 184.87	0.0249	225	0.016	0.00120	0.62	0.11	0.071 0.071 0.070	0 0	186.86 184.91	No
E08SA09-24 148	314	105.80	216.29 213.65	213.79 211.15	0.0250	225	0.016	0.00070	0.52	0.08	0.071 0.071 0.070	0 0	213.81 211.17	No
E08SA09-33 150	309	34.10	213.65 201.70	211.15 199.20	0.3504	225	0.015	0.00070	1.53	0.05	0.267 0.266 0.265	0 0	211.16 199.21	No
E09A04-10 904	147	106.70	245.07 238.96	242.57 236.46	0.0572	200	0.016	0.00030	0.61	0.06	0.079 0.078 0.078	0 0	242.58 236.47	No
E09A04-11 902	115	55.50	249.76 245.07	247.26 242.57	0.0845	200	0.016	0.00030	0.75	0.06	0.096 0.095 0.095	0 0	247.27 242.58	No
E09A05-7 906	164	91.40	238.96 235.46	236.46 232.96	0.0383	200	0.016	0.00030	0.50	0.06	0.064 0.064 0.064	0 0	236.46 232.98	No
E09A06-27 76	215	193.26	237.50 235.16	235.00 232.66	0.0121	375	0.015	0.00030	0.30	0.03	0.194 0.193 0.193	0 0	235.01 232.69	No
E09A07-27 90	251	134.00	237.54 235.16	235.04 232.66	0.0178	225	0.016	0.00060	0.44	0.08	0.060 0.060 0.059	0 0	235.04 232.69	No
E09A08-102 164	350	66.10	244.21 241.23	241.71 238.73	0.0450	225	0.016	0.00100	0.70	0.08	0.096 0.095 0.094	0 0	241.72 238.75	No
E09A08-47 166	366	94.50	241.23 236.27	238.73 233.77	0.0525	225	0.016	0.00100	0.76	0.08	0.103 0.103 0.102	0 0	238.73 233.82	No
E09A09-46 220	404	118.90	236.27 233.54	233.77 231.04	0.0230	225	0.017	0.00330	0.81	0.19	0.068 0.068 0.065	0 0	233.82 231.08	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E09A11-42	55.29	226.12	223.62	0.0075	225	0.013	0.00000	0.06	0.00	0.039	0	223.62	No
1182	448	225.71	223.21							0.039	0	223.21	
										0.039			
E09A15-01	55.60	218.25	215.75	0.0112	225	0.016	0.00030	0.35	0.08	0.048	0	215.76	No
1046	558	217.63	215.13							0.047	0	215.20	
										0.047			
E09A15-02	143.24	218.96	216.46	0.0050	225	0.015	0.00010	0.18	0.05	0.032	0	216.46	No
1044	543	218.25	215.75							0.032	0	215.77	
										0.032			
E09A15-44	48.50	225.17	222.67	0.0237	225	0.015	0.00010	0.40	0.05	0.069	0	222.68	No
264	475	224.02	221.52							0.069	0	221.53	
										0.069			
E09A15-45	96.30	224.02	221.52	0.0238	225	0.015	0.00010	0.40	0.05	0.069	0	221.53	No
266	496	221.73	219.23							0.069	0	219.24	
										0.069			
E09A15-47	71.30	221.73	219.23	0.0440	225	0.015	0.00010	0.54	0.05	0.095	0	219.24	No
268	3	218.59	216.09							0.094	0	216.18	
										0.094			
E09A16-47	95.20	216.81	214.31	0.0049	250	0.016	0.00190	0.38	0.17	0.042	0	214.33	No
404	611	216.35	213.85							0.041	0	213.90	
										0.040			
E09A16-50	85.00	217.24	214.74	0.0051	250	0.016	0.00190	0.38	0.17	0.042	0	214.78	No
402	590	216.81	214.31							0.042	0	214.35	
										0.040			
E09A17-47	145.50	216.79	214.29	0.0030	200	0.017	0.00210	0.33	0.27	0.018	0	214.32	No
448	334	216.35	213.85							0.018	0	213.90	
										0.016			
E09A17-48	91.60	217.70	215.20	0.0099	200	0.017	0.00210	0.52	0.21	0.033	0	215.20	No
446	639	216.79	214.29							0.033	0	214.34	
										0.031			
E09A18-40	83.80	217.84	215.34	0.0091	200	0.017	0.00260	0.54	0.24	0.031	0	215.39	No
470	666	217.08	214.58							0.031	0	214.63	
										0.029			
E09A19-37	15.20	212.67	210.17	0.0038	450	0.016	0.00800	0.48	0.16	0.177	0	210.22	No
1641	684	212.62	210.12							0.176	0	210.20	
										0.168			
E09A19-39	99.00	217.08	214.58	0.0100	200	0.017	0.00260	0.56	0.24	0.033	0	214.63	No
472	670	216.09	213.59							0.033	0	213.64	
										0.030			
E09A19-42	99.00	216.09	213.59	0.0345	200	0.016	0.00260	0.89	0.18	0.061	0	213.59	No
474	682	212.67	210.17							0.061	0	210.25	
										0.058			
E09A19-45	93.00	233.54	231.04	0.0787	225	0.016	0.00330	1.25	0.14	0.126	0	231.07	No
222	434	226.22	223.72							0.126	0	223.81	
										0.123			

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E09A20-27 1647	719	12.20	212.00 211.96	209.50 209.46	0.0030	450	0.017	0.01070	0.48	0.20	0.155 0.155 0.144	0 0	209.57 209.57	No
E09A20-36 1645	718	119.50	212.36 212.00	209.86 209.50	0.0030	450	0.017	0.01070	0.48	0.20	0.157 0.156 0.146	0 0	209.91 209.59	No
E09A20-43 1643	699	84.75	212.62 212.36	210.12 209.86	0.0030	450	0.017	0.00880	0.46	0.19	0.157 0.157 0.148	0 0	210.12 209.95	No
E09A22-54 1088	772	63.20	215.40 214.68	212.90 212.18	0.0114	250	0.016	0.00280	0.57	0.17	0.064 0.063 0.061	0 0	212.90 212.34	No
E09A23-53 1092	785	71.10	215.73 214.68	213.23 212.18	0.0148	250	0.016	0.00150	0.55	0.12	0.073 0.072 0.071	0 0	213.25 212.34	No
E09A23-55 1090	791	59.80	216.01 215.73	213.51 213.23	0.0047	250	0.016	0.00150	0.37	0.17	0.041 0.041 0.039	0 0	213.55 213.27	No
E09A25-18 630	282	87.45	208.33 205.64	205.83 203.14	0.0308	200	0.017	0.00600	1.06	0.27	0.058 0.058 0.052	0 0	205.86 203.21	No
E09A25-24 612	805	93.97	211.02 208.33	208.52 205.83	0.0286	200	0.017	0.00400	0.89	0.21	0.056 0.055 0.051	0 0	208.52 205.89	No
E09A25-25 610	801	42.00	212.89 211.02	210.39 208.52	0.0445	200	0.017	0.00400	1.10	0.21	0.069 0.069 0.065	0 0	210.43 208.56	No
E09A26-19 664	292	127.29	205.64 204.63	203.14 202.13	0.0079	200	0.017	0.00640	0.63	0.37	0.029 0.029 0.023	0 0	203.21 202.20	No
E09A26-20 666	302	76.43	204.63 203.99	202.13 201.49	0.0084	200	0.017	0.00640	0.65	0.37	0.030 0.030 0.024	0 0	202.20 201.56	No
E09A26-21 668	306	48.34	203.99 203.45	201.49 200.95	0.0112	250	0.017	0.00640	0.69	0.24	0.063 0.063 0.056	0 0	201.49 201.02	No
E09A27-21 678	308	30.00	204.40 203.45	201.90 200.95	0.0317	200	0.016	0.00040	0.58	0.09	0.059 0.058 0.058	0 0	201.91 201.02	No
E09S01-01 1373	266	13.48	179.67 178.75	177.17 176.25	0.0679	250	0.016	0.00720	1.40	0.17	0.155 0.155 0.148	0 0	177.19 176.58	Yes
E09S01-03 1371	268	23.80	180.45 179.67	177.95 177.17	0.0330	600	0.016	0.00720	1.07	0.07	1.119 1.115 1.107	0 0	177.99 177.21	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E09S01-28 136	267	22.30	179.33 179.67	176.83 177.17	-0.0150	600	0.000	0.00000	0.06	1.00	0.000 0.000 0.000	0 0	177.22 177.22	No
E09S01-29 134	270	17.10	179.66 179.33	177.16 176.83	0.0192	900	0.013	0.00000	0.26	0.01	2.518 2.508 2.508	0 0	177.22 177.22	No
E09S01-4 1369	273	40.78	180.96 180.45	178.46 177.95	0.0126	600	0.016	0.00720	0.71	0.08	0.690 0.687 0.680	0 0	178.51 178.00	No
E09S02-5 1367	310	121.60	181.79 180.96	179.29 178.46	0.0068	600	0.016	0.00710	0.56	0.09	0.509 0.507 0.500	0 0	179.35 178.52	No
E09S03-8 1365	312	27.43	182.60 181.79	180.10 179.29	0.0294	600	0.016	0.00710	1.01	0.07	1.056 1.052 1.045	0 0	180.12 179.35	No
E09S03-8 1363	317	121.67	182.82 182.60	180.32 180.10	0.0018	600	0.016	0.00700	0.36	0.13	0.262 0.261 0.254	0 0	180.40 180.18	No
E09S04-11 1361	336	27.46	183.10 182.82	180.60 180.32	0.0102	600	0.016	0.00630	0.64	0.08	0.622 0.619 0.613	0 0	180.60 180.40	No
E09S04-11 1359	339	121.24	184.41 183.10	181.91 180.60	0.0108	600	0.016	0.00470	0.61	0.07	0.639 0.636 0.632	0 0	181.93 180.65	No
E09S04-13 1357	341	25.91	185.26 184.41	182.76 181.91	0.0329	600	0.016	0.00470	0.97	0.06	1.117 1.113 1.108	0 0	182.76 181.95	No
E09S05-14 988	343	74.03	187.50 185.26	185.00 182.76	0.0303	450	0.015	0.00200	0.71	0.05	0.498 0.496 0.494	0 0	185.02 182.80	No
E09S05-23 984	348	10.06	191.80 191.16	189.30 188.66	0.0636	450	0.014	0.00020	0.47	0.01	0.721 0.718 0.718	0 0	189.30 188.68	No
E09S05-31 986	346	90.06	191.16 187.50	188.66 185.00	0.0406	450	0.015	0.00120	0.70	0.04	0.576 0.574 0.573	0 0	188.66 185.02	No
E09S06-28 176	355	83.20	215.94 214.34	213.44 211.84	0.0193	225	0.016	0.00190	0.62	0.14	0.063 0.062 0.060	0 0	213.44 211.88	No
E09S07-100 210	361	150.00	225.99 221.96	223.49 219.46	0.0269	225	0.017	0.00400	0.87	0.19	0.074 0.074 0.070	0 0	223.53 219.50	No
E09S07-32 212	358	60.10	221.96 217.17	219.46 214.67	0.0797	225	0.016	0.00400	1.26	0.14	0.127 0.127 0.123	0 0	219.46 214.73	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E09S08-40 208	364	80.80	228.46 225.99	225.96 223.49	0.0305	225	0.016	0.00140	0.68	0.11	0.079 0.078 0.077	0 0	225.98 223.53	No
E09S09-47 218	368	61.00	243.20 236.27	240.70 233.77	0.1136	225	0.016	0.00120	1.11	0.08	0.152 0.151 0.150	0 0	240.72 233.82	No
E09S09-48 216	376	77.10	243.43 243.20	240.93 240.70	0.0030	225	0.017	0.00120	0.29	0.19	0.025 0.025 0.023	0 0	240.98 240.74	No
E09SA-07-31 226	393	118.76	218.76 216.37	216.26 213.87	0.0201	225	0.016	0.00120	0.56	0.11	0.064 0.064 0.062	0 0	216.26 213.93	No
E09SA07-36 224	395	75.60	221.62 218.76	219.12 216.26	0.0378	225	0.016	0.00120	0.76	0.11	0.088 0.087 0.086	0 0	219.14 216.28	No
E09SA09-39 232	401	77.10	224.93 224.44	222.43 221.94	0.0063	225	0.016	0.00070	0.35	0.14	0.036 0.036 0.035	0 0	222.46 221.97	No
E10A08-58 202	392	91.40	243.29 242.53	240.79 240.03	0.0083	200	0.017	0.00180	0.48	0.21	0.030 0.030 0.028	0 0	240.83 240.07	No
E10A08-59 200	363	91.40	243.75 243.29	241.25 240.79	0.0050	200	0.017	0.00180	0.40	0.24	0.023 0.023 0.021	0 0	241.30 240.84	No
E10A09-56 1134	446	91.40	235.12 227.69	232.62 225.19	0.0813	200	0.016	0.00420	1.37	0.18	0.094 0.093 0.089	0 0	232.64 225.31	No
E10A09-57 1132	422	48.07	238.80 235.12	236.30 232.62	0.0765	200	0.016	0.00350	1.20	0.15	0.091 0.091 0.087	0 0	236.30 232.66	No
E10A10-54 278	479	66.19	225.13 221.59	222.63 219.09	0.0535	200	0.016	0.00030	0.59	0.06	0.076 0.076 0.076	0 0	222.63 219.13	No
E10A11-53 284	495	83.27	221.59 220.74	219.09 218.24	0.0102	200	0.017	0.00250	0.53	0.21	0.033 0.033 0.031	0 0	219.09 218.30	No
E10S01-01 1118	375	12.81	178.67 178.03	176.17 175.53	0.0502	250	0.014	0.00000	0.39	0.02	0.134 0.133 0.133	0 0	176.18 175.91	Yes
E10S01-06 1381	370	30.21	178.03 177.89	175.53 175.39	0.0048	900	0.017	0.28410	1.35	0.37	1.262 1.257 0.973	0 0	175.91 175.91	No
E10S02-06 1448	371	11.40	178.65 177.89	176.15 175.39	0.0667	600	0.016	0.03020	1.98	0.11	1.590 1.584 1.553	0 0	176.19 175.91	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge	
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
											Qexcess			
E10S02-10 1444	382	63.80	179.42 178.95	176.92 176.45	0.0074	450	0.017	0.03020	0.88	0.27	0.245 0.244 0.214	0 0	176.99 176.57	No
E10S03-114 1440	386	79.50	180.27 179.83	177.77 177.33	0.0055	450	0.017	0.02990	0.80	0.30	0.213 0.212 0.182	0 0	177.90 177.46	No
E10S03-16 1438	389	70.53	180.90 180.27	178.40 177.77	0.0089	375	0.017	0.02990	0.98	0.34	0.166 0.166 0.136	0 0	178.40 177.90	No
E10S04-17 1436	391	11.90	181.66 180.90	179.16 178.40	0.0635	375	0.017	0.02980	1.99	0.21	0.443 0.441 0.411	0 0	179.20 178.53	No
E10S04-20 1434	396	135.83	183.41 181.66	180.91 179.16	0.0129	350	0.017	0.02980	1.10	0.33	0.166 0.165 0.136	0 0	181.02 179.27	No
E10S05-22 1432	400	79.95	192.92 183.41	190.42 180.91	0.1190	300	0.017	0.02800	2.43	0.22	0.335 0.333 0.305	0 0	190.46 181.02	No
E10S05-91 1430	408	89.35	201.94 192.92	199.44 190.42	0.1010	300	0.017	0.02750	2.35	0.24	0.308 0.307 0.279	0 0	199.52 190.49	No
E10S05-92 1428	412	96.79	211.13 201.94	208.63 199.44	0.0949	300	0.017	0.02760	2.27	0.24	0.299 0.298 0.270	0 0	208.70 199.52	No
E10S06-25 1426	416	110.49	214.75 211.13	212.25 208.63	0.0328	300	0.017	0.02590	1.51	0.30	0.176 0.175 0.149	0 0	212.34 208.72	No
E10S07-30 1424	424	105.21	216.35 214.75	213.85 212.25	0.0152	250	0.016	0.01920	1.09	0.41	0.074 0.073 0.054	0 0	213.96 212.35	No
E10S08-101 1418	433	91.23	226.22 224.60	223.72 222.10	0.0178	250	0.017	0.01730	1.09	0.37	0.080 0.079 0.062	0 0	223.81 222.19	No
E10S08-38 1420	429	77.10	224.60 220.14	222.10 217.64	0.0579	250	0.017	0.01790	1.74	0.29	0.143 0.143 0.125	0 0	222.10 217.72	No
E10S09-45 1407	438	88.45	226.70 226.22	224.20 223.72	0.0054	250	0.017	0.00230	0.42	0.20	0.044 0.043 0.041	0 0	224.22 223.81	No
E10S09-45 1416	437	91.40	226.97 226.22	224.47 223.72	0.0081	225	0.016	0.01230	0.76	0.43	0.041 0.041 0.028	0 0	224.57 223.82	No
E10S09-51 1405	442	91.44	227.15 226.70	224.65 224.20	0.0050	250	0.016	0.00080	0.32	0.12	0.042 0.042 0.041	0 0	224.65 224.25	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E10S09-52 1414	440	91.40	227.38 226.97	224.88 224.47	0.0045	225	0.016	0.01230	0.62	0.51	0.030 0.030 0.018	0 0	224.99 224.58	No
E10S09-53 1403	447	82.30	227.56 227.15	225.06 224.65	0.0050	250	0.016	0.00080	0.32	0.12	0.042 0.042 0.041	0 0	225.08 224.68	No
E10S09-54 1412	445	80.80	227.69 227.38	225.19 224.88	0.0039	225	0.016	0.01140	0.58	0.51	0.028 0.028 0.017	0 0	225.31 224.99	No
E10S09-99 1422	425	105.81	220.14 216.35	217.64 213.85	0.0358	250	0.017	0.01920	1.49	0.34	0.113 0.112 0.093	0 0	217.69 213.96	No
E10S10-55 1401	456	99.10	228.97 227.56	226.47 225.06	0.0142	250	0.016	0.00080	0.47	0.10	0.071 0.071 0.070	0 0	226.47 225.09	No
E10S10-56 1410	453	100.60	229.17 227.69	226.67 225.19	0.0147	225	0.017	0.00750	0.83	0.30	0.055 0.054 0.047	0 0	226.70 225.31	No
E10S10-61 1408	457	8.17	229.42 229.17	226.92 226.67	0.0316	200	0.013	0.00000	0.06	0.00	0.058 0.058 0.058	0 0	226.92 226.73	No
E10S11-104 1162	467	38.40	233.82 233.20	231.32 230.70	0.0159	250	0.016	0.00120	0.50	0.10	0.075 0.075 0.074	0 0	231.34 230.73	No
E10S11-62 1400	459	91.40	230.80 229.17	228.30 226.67	0.0178	250	0.017	0.00450	0.77	0.20	0.080 0.079 0.075	0 0	228.30 226.73	No
E10S11-68 1398	463	58.80	232.45 230.80	229.95 228.30	0.0282	250	0.016	0.00450	0.90	0.17	0.100 0.100 0.095	0 0	229.98 228.34	No
E10S11-69 1164	465	32.60	233.20 232.45	230.70 229.95	0.0230	250	0.016	0.00150	0.60	0.10	0.091 0.090 0.089	0 0	230.72 230.00	No
E10S11-77 248	469	37.80	234.12 233.82	231.62 231.32	0.0080	250	0.016	0.00110	0.40	0.12	0.053 0.053 0.052	0 0	231.65 231.35	No
E10S16-24 1492	531	62.53	226.89 226.09	224.39 223.59	0.0128	375	0.016	0.00770	0.78	0.16	0.199 0.198 0.190	0 0	224.39 223.66	No
E10S16-25 1490	517	122.49	227.31 226.89	224.81 224.39	0.0034	375	0.017	0.00770	0.46	0.21	0.103 0.103 0.095	0 0	224.89 224.47	No
E10S16-26 1488	505	55.02	227.52 227.31	225.02 224.81	0.0038	375	0.017	0.00770	0.49	0.21	0.109 0.108 0.101	0 0	225.06 224.89	No

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E10S16-27 1483	489	47.70	227.93 227.52	225.43 225.02	0.0086	300	0.016	0.00360	0.55	0.16	0.090 0.090 0.086	0 0	225.46 225.10	No
E10S16-28 1481	486	40.73	228.11 227.93	225.61 225.43	0.0044	250	0.017	0.00360	0.43	0.24	0.040 0.040 0.036	0 0	225.67 225.49	No
E11A08-64 188	414	91.40	245.37 240.70	242.87 238.20	0.0510	225	0.016	0.00280	1.00	0.14	0.102 0.101 0.099	0 0	242.90 238.23	No
E11A08-66 184	359	91.40	247.84 247.56	245.34 245.06	0.0030	225	0.017	0.00280	0.36	0.27	0.025 0.025 0.022	0 0	245.40 245.12	No
E11A08-66 186	385	91.40	247.56 245.37	245.06 242.87	0.0240	225	0.016	0.00280	0.76	0.16	0.070 0.070 0.067	0 0	245.10 242.90	No
E11A09-62 192	454	69.50	236.65 229.17	234.15 226.67	0.1076	225	0.016	0.00280	1.28	0.11	0.148 0.147 0.144	0 0	234.17 226.73	No
E11A09-63 190	430	68.60	240.70 236.65	238.20 234.15	0.0591	225	0.016	0.00280	1.08	0.14	0.110 0.109 0.106	0 0	238.23 234.18	No
E11A11-59 310	502	115.82	225.00 222.44	222.50 219.94	0.0221	200	0.016	0.00080	0.58	0.12	0.049 0.049 0.048	0 0	222.50 219.99	No
E11S01-05 1456	474	99.04	177.58 177.47	175.08 174.97	0.0011	1000	0.016	0.30440	0.81	0.49	0.801 0.798 0.494	0 0	175.49 175.49	No
E11S02-06 1014	461	6.94	178.98 177.58	176.48 175.08	0.2018	225	0.016	0.00530	2.00	0.14	0.202 0.202 0.196	0 0	176.50 175.57	Yes
E11S02-15 308	462	55.20	179.92 178.98	177.42 176.48	0.0170	200	0.017	0.00460	0.79	0.27	0.043 0.043 0.038	0 0	177.48 176.54	No
E11S02-16 306	452	52.29	180.44 179.92	177.94 177.42	0.0099	600	0.016	0.00460	0.58	0.07	0.614 0.612 0.607	0 0	177.94 177.48	No
E11S02-17 304	443	11.64	180.46 180.44	177.96 177.94	0.0017	600	0.016	0.00460	0.32	0.11	0.255 0.254 0.250	0 0	178.03 178.01	No
E11S03-18 276	441	88.00	182.04 180.46	179.54 177.96	0.0180	250	0.016	0.00330	0.72	0.17	0.080 0.080 0.076	0 0	179.56 178.03	No
E11S03-22 274	432	41.00	183.55 182.04	181.05 179.54	0.0369	250	0.016	0.00240	0.87	0.12	0.115 0.114 0.112	0 0	181.05 179.58	No

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E11S10-54 282	480	51.20	223.31 221.59	220.81 219.09	0.0336	200	0.016	0.00100	0.71	0.12	0.060 0.060 0.059	0 0	220.82 219.13	No
E11S10-56 280	481	106.70	224.52 223.31	222.02 220.81	0.0113	200	0.016	0.00100	0.46	0.15	0.035 0.035 0.034	0 0	222.05 220.84	No
E11S12-63 286	482	83.48	225.16 224.82	222.66 222.32	0.0041	200	0.017	0.00260	0.38	0.27	0.021 0.021 0.018	0 0	222.72 222.38	No
E12A11-61 290	508	63.10	223.39 222.96	220.89 220.46	0.0068	200	0.017	0.00260	0.46	0.24	0.027 0.027 0.024	0 0	220.89 220.52	No
E12A11-62 288	488	54.24	224.82 223.39	222.32 220.89	0.0264	200	0.016	0.00260	0.78	0.18	0.053 0.053 0.051	0 0	222.34 220.94	No
E12A15-07 1032	563	80.47	219.40 218.86	216.90 216.36	0.0068	200	0.017	0.00490	0.55	0.34	0.027 0.027 0.022	0 0	216.90 216.44	No
E12A15-7a 1030	540	80.47	219.65 219.40	217.15 216.90	0.0031	200	0.016	0.00490	0.43	0.43	0.018 0.018 0.013	0 0	217.23 216.99	No
E12S01-03 334	15	10.26	179.16 177.25	176.66 174.75	0.1864	200	0.016	0.00110	1.41	0.09	0.142 0.142 0.140	0 0	176.66 175.26	No
E12S01-08 332	13	13.40	179.92 179.16	177.42 176.66	0.0569	200	0.016	0.00110	0.78	0.09	0.078 0.078 0.077	0 0	177.44 176.68	No
E12S01-10 330	8	97.80	180.35 179.92	177.85 177.42	0.0044	300	0.016	0.00110	0.30	0.10	0.064 0.064 0.063	0 0	177.88 177.45	No
E12S02-11 328	1	92.10	183.23 180.35	180.73 177.85	0.0313	225	0.015	0.00020	0.46	0.05	0.080 0.079 0.079	0 0	180.73 177.88	No
E12S03-27 298	498	87.10	186.50 183.66	184.00 181.16	0.0326	300	0.016	0.00140	0.72	0.08	0.175 0.174 0.173	0 0	184.00 181.19	No
E12S10-53 314	499	59.10	221.50 220.74	219.00 218.24	0.0129	200	0.017	0.00340	0.64	0.24	0.037 0.037 0.034	0 0	219.00 218.30	No
E12S10-65 312	501	82.00	222.44 221.50	219.94 219.00	0.0115	200	0.017	0.00340	0.60	0.24	0.035 0.035 0.032	0 0	219.97 219.05	No
E12S11-59 294	504	30.50	222.60 222.44	220.10 219.94	0.0053	200	0.017	0.00260	0.44	0.27	0.024 0.024 0.021	0 0	220.16 220.00	No

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E12S11-60 292	507	87.69	222.96 222.60	220.46 220.10	0.0041	200	0.017	0.00260	0.39	0.27	0.021 0.021 0.018	0 0	220.52 220.16	No
E13A12-10 338	523	76.20	221.26 220.05	218.76 217.55	0.0158	200	0.016	0.00110	0.55	0.15	0.041 0.041 0.040	0 0	218.76 217.63	No
E13A12-10a 336	2	106.70	224.06 221.26	221.56 218.76	0.0262	200	0.016	0.00110	0.63	0.12	0.053 0.053 0.052	0 0	221.56 218.79	No
E13S01-05 1466	564	103.79	177.04 176.93	174.54 174.43	0.0011	1000	0.016	0.30630	0.79	0.49	0.783 0.780 0.473	0 0	174.94 174.94	No
E13S02-01 1224	550	51.82	179.39 177.89	176.89 175.39	0.0290	300	0.017	0.02270	1.42	0.30	0.165 0.164 0.142	0 0	176.98 175.48	No
E13S02-02 1226	551	5.70	177.89 176.93	175.39 174.43	0.1684	300	0.017	0.02380	2.74	0.20	0.398 0.396 0.373	0 0	175.43 174.94	Yes
E13S02-04 1222	544	57.65	183.09 179.39	180.59 176.89	0.0642	525	0.016	0.02270	1.82	0.12	1.093 1.088 1.066	0 0	180.63 176.98	No
E13S02-26 1220	538	14.40	183.30 183.09	180.80 180.59	0.0146	525	0.016	0.02260	1.04	0.16	0.521 0.519 0.496	0 0	180.89 180.68	No
E13S03-05 1218	536	121.31	187.36 183.30	184.86 180.80	0.0335	525	0.016	0.02160	1.39	0.13	0.789 0.786 0.764	0 0	184.86 180.89	No
E13S03-07 324	521	12.07	188.17 187.55	185.67 185.05	0.0514	225	0.016	0.00070	0.75	0.08	0.102 0.102 0.101	0 0	185.68 185.08	No
E13S03-07 362	524	5.63	187.55 187.36	185.05 184.86	0.0338	225	0.016	0.00240	0.82	0.14	0.083 0.082 0.080	0 0	185.07 184.93	No
E13S04-09 322	519	41.56	188.54 188.17	186.04 185.67	0.0088	225	0.016	0.00070	0.37	0.11	0.042 0.042 0.041	0 0	186.06 185.69	No
E14A13-21 1018	7	69.00	223.20 221.00	220.70 218.50	0.0319	200	0.016	0.00160	0.78	0.15	0.059 0.059 0.057	0 0	220.70 218.54	No
E14A13-23 1016	503	74.00	225.49 223.20	222.99 220.70	0.0310	200	0.016	0.00160	0.77	0.15	0.058 0.058 0.056	0 0	223.02 220.73	No
E14A14-20 1022	529	65.00	221.00 220.59	218.50 218.09	0.0063	200	0.017	0.00170	0.42	0.21	0.026 0.026 0.024	0 0	218.52 218.13	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E14S03-09 406	595	85.00	188.95 183.09	186.45 180.59	0.0690	225	0.015	0.00050	0.68	0.05	0.118 0.118 0.117	0 0	186.45 180.65	No
E14S14-21 1020	9	45.99	221.30 221.00	218.80 218.50	0.0065	200	0.016	0.00010	0.21	0.06	0.027 0.027 0.026	0 0	218.80 218.54	No
E15aS07-27 1192	533	54.96	216.09 215.20	213.59 212.70	0.0162	250	0.016	0.00110	0.50	0.10	0.076 0.076 0.075	0 0	213.61 212.74	No
E15aS07-29 1190	530	93.76	216.85 216.09	214.35 213.59	0.0081	250	0.016	0.00110	0.41	0.12	0.054 0.054 0.052	0 0	214.38 213.62	No
E15aS08-40 350	5	76.50	218.59 218.28	216.09 215.78	0.0041	250	0.017	0.00790	0.52	0.37	0.038 0.038 0.030	0 0	216.18 215.87	No
E15aS09-47 348	4	65.20	219.25 218.59	216.75 216.09	0.0101	250	0.017	0.00750	0.73	0.29	0.060 0.060 0.052	0 0	216.79 216.18	No
E15aS09-48 346	510	50.24	219.40 219.25	216.90 216.75	0.0030	250	0.017	0.00750	0.46	0.39	0.033 0.033 0.025	0 0	217.00 216.85	No
E15bS10-49 344	6	66.10	219.65 219.40	217.15 216.90	0.0038	200	0.017	0.00150	0.32	0.21	0.020 0.020 0.019	0 0	217.15 217.00	No
E15bS10-50 342	10	83.82	219.90 219.65	217.40 217.15	0.0030	200	0.017	0.00150	0.31	0.24	0.018 0.018 0.016	0 0	217.45 217.20	No
E15bS10-51 340	16	77.10	220.13 219.90	217.63 217.40	0.0030	200	0.017	0.00150	0.31	0.24	0.018 0.018 0.016	0 0	217.68 217.45	No
E15bS11-08 356	516	57.14	219.86 219.65	217.36 217.15	0.0037	200	0.016	0.00050	0.24	0.12	0.020 0.020 0.020	0 0	217.36 217.23	No
E15bS12-08 1028	522	90.05	220.05 219.65	217.55 217.15	0.0045	200	0.017	0.00440	0.47	0.37	0.022 0.022 0.018	0 0	217.60 217.23	No
E15bS13-10 1026	526	41.15	220.34 220.05	217.84 217.55	0.0070	200	0.017	0.00340	0.50	0.27	0.028 0.027 0.024	0 0	217.84 217.63	No
E15bS13-11 1024	528	47.24	220.59 220.34	218.09 217.84	0.0053	200	0.017	0.00170	0.38	0.21	0.024 0.024 0.022	0 0	218.09 217.90	No
E15S03-07 420	607	112.80	192.76 182.90	190.26 180.40	0.0875	300	0.015	0.00050	0.79	0.04	0.287 0.286 0.285	0 0	190.27 180.47	No

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E15S04-19 1204	592	41.00	201.91 196.72	199.41 194.22	0.1266	300	0.016	0.01770	2.24	0.18	0.345 0.344 0.326	0 0	199.47 194.28	No
E15S04-20 1202	586	79.20	210.36 201.91	207.86 199.41	0.1067	300	0.016	0.01770	2.06	0.18	0.317 0.316 0.298	0 0	207.89 199.47	No
E15S05-21 1200	570	80.20	212.42 210.36	209.92 207.86	0.0257	300	0.017	0.01770	1.24	0.26	0.155 0.155 0.137	0 0	210.00 207.94	No
E15S05-22 1198	548	14.30	212.99 212.42	210.49 209.92	0.0399	300	0.017	0.01770	1.47	0.24	0.194 0.193 0.175	0 0	210.53 210.00	No
E15S06-65 1196	546	150.20	214.77 212.99	212.27 210.49	0.0119	300	0.017	0.01660	0.94	0.33	0.106 0.105 0.089	0 0	212.37 210.59	No
E15S07-24 1188	515	172.42	215.82 214.77	213.32 212.27	0.0061	300	0.017	0.01240	0.68	0.33	0.076 0.075 0.063	0 0	213.38 212.37	No
E15S08-31 1186	494	110.60	220.19 215.82	217.69 213.32	0.0395	225	0.013	0.00000	0.06	0.00	0.090 0.089 0.089	0 0	217.69 213.42	No
E15S08-41 1184	476	100.60	225.71 220.19	223.21 217.69	0.0549	225	0.013	0.00000	0.06	0.00	0.106 0.105 0.105	0 0	223.21 217.69	No
E15S08aALL-38 364	534	80.20	218.51 217.33	216.01 214.83	0.0147	225	0.015	0.00010	0.31	0.05	0.055 0.054 0.054	0 0	216.01 214.85	No
E15S08ALL-35 1076	542	68.90	217.33 216.85	214.83 214.35	0.0070	225	0.016	0.00020	0.28	0.08	0.038 0.037 0.037	0 0	214.85 214.39	No
E15S08bALL-38 1074	555	80.20	217.69 217.33	215.19 214.83	0.0045	225	0.015	0.00010	0.17	0.05	0.030 0.030 0.030	0 0	215.19 214.85	No
E15S18-19 1502	582	58.42	222.54 222.31	220.04 219.81	0.0039	375	0.017	0.01060	0.54	0.24	0.110 0.110 0.099	0 0	220.09 219.92	No
E15S18-20 1500	579	91.08	222.80 222.54	220.30 220.04	0.0029	375	0.017	0.01060	0.47	0.26	0.094 0.094 0.083	0 0	220.40 220.14	No
E15S18-21 1498	577	49.17	222.99 222.80	220.49 220.30	0.0039	375	0.017	0.00770	0.49	0.21	0.109 0.109 0.101	0 0	220.49 220.40	No
E15SA08-33 352	12	63.10	218.28 216.48	215.78 213.98	0.0285	250	0.017	0.00790	1.04	0.22	0.101 0.100 0.092	0 0	215.81 214.08	No

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E16A08-29 1000	483	25.73	229.32 228.11	226.82 225.61	0.0470	250	0.016	0.00360	1.07	0.15	0.129 0.129 0.125	0 0	226.84 225.67	No
E16A08-30 998	477	47.50	230.00 229.32	227.50 226.82	0.0143	250	0.016	0.00360	0.64	0.17	0.071 0.071 0.068	0 0	227.54 226.86	No
E16A08-31 996	466	92.50	233.79 230.00	231.29 227.50	0.0410	250	0.016	0.00360	1.00	0.15	0.121 0.120 0.117	0 0	231.29 227.54	No
E16A08-32 994	435	99.73	236.00 233.79	233.50 231.29	0.0222	250	0.016	0.00360	0.80	0.17	0.089 0.088 0.085	0 0	233.54 231.33	No
E16A08-33 992	402	99.68	238.95 236.00	236.45 233.50	0.0296	250	0.016	0.00360	0.85	0.15	0.103 0.102 0.099	0 0	236.45 233.54	No
E16A08-34 990	374	71.26	241.50 238.95	239.00 236.45	0.0358	250	0.016	0.00360	0.94	0.15	0.113 0.112 0.109	0 0	239.04 236.49	No
E16A10-19 1609	527	101.00	226.33 224.11	223.83 221.61	0.0220	250	0.016	0.00420	0.80	0.17	0.088 0.088 0.084	0 0	223.83 221.67	No
E16A10-20 1607	511	99.33	228.93 226.33	226.43 223.83	0.0262	250	0.016	0.00420	0.87	0.17	0.097 0.096 0.092	0 0	226.47 223.87	No
E16A10-21 1479	485	8.11	229.08 228.11	226.58 225.61	0.1196	250	0.013	0.00000	0.06	0.00	0.206 0.205 0.205	0 0	226.58 225.67	No
E16A12-18 1611	552	104.30	224.11 223.01	221.61 220.51	0.0106	250	0.017	0.00420	0.63	0.22	0.061 0.061 0.057	0 0	221.64 220.57	No
E16A14-17 1613	584	106.60	223.01 222.31	220.51 219.81	0.0066	250	0.017	0.00420	0.53	0.24	0.048 0.048 0.044	0 0	220.57 219.87	No
E16A16-05 1619	622	86.90	219.92 216.21	217.42 213.71	0.0427	250	0.016	0.00430	1.02	0.15	0.123 0.123 0.119	0 0	217.44 213.77	No
E16A16-15 1617	599	44.70	221.11 219.92	218.61 217.42	0.0267	250	0.016	0.00420	0.88	0.17	0.098 0.097 0.093	0 0	218.65 217.46	No
E16A16-16 1615	593	39.50	222.31 221.11	219.81 218.61	0.0304	250	0.016	0.00420	0.94	0.17	0.104 0.104 0.099	0 0	219.83 218.65	No
E16A17-03 1623	647	121.92	215.85 215.48	213.35 212.98	0.0030	350	0.017	0.00470	0.39	0.19	0.080 0.080 0.075	0 0	213.38 213.05	No

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E16A17-04 1621	628	120.40	216.21 215.85	213.71 213.35	0.0030	350	0.017	0.00450	0.39	0.19	0.080 0.080 0.075	0 0	213.77 213.41	No
E16A18-02 1625	663	126.49	215.48 215.10	212.98 212.60	0.0030	350	0.017	0.00470	0.39	0.19	0.080 0.080 0.075	0 0	213.02 212.67	No
E16A19-01 1627	672	126.49	215.10 214.72	212.60 212.22	0.0030	350	0.017	0.00470	0.39	0.19	0.080 0.080 0.075	0 0	212.67 212.28	No
E16A19-05 1629	690	126.49	214.72 214.21	212.22 211.71	0.0040	350	0.016	0.00470	0.43	0.17	0.092 0.092 0.087	0 0	212.25 211.78	No
E16A20-05 550	695	29.60	214.46 214.21	211.96 211.71	0.0082	250	0.016	0.00020	0.30	0.07	0.054 0.054 0.054	0 0	211.98 211.78	No
E16A20-06 548	714	121.92	214.95 214.46	212.45 211.96	0.0040	250	0.016	0.00020	0.21	0.07	0.038 0.038 0.037	0 0	212.46 211.98	No
E16A20-07 546	730	110.87	215.19 214.95	212.69 212.45	0.0022	250	0.016	0.00020	0.16	0.07	0.028 0.028 0.028	0 0	212.71 212.46	No
E16A22-25 600	773	94.00	212.58 212.24	210.08 209.74	0.0036	250	0.016	0.00050	0.24	0.10	0.036 0.036 0.035	0 0	210.11 209.76	No
E16S03-05 426	620	78.07	189.01 182.78	186.51 180.28	0.0798	250	0.015	0.00060	0.73	0.05	0.169 0.168 0.167	0 0	186.51 180.36	No
E16S05-13 408	598	81.70	213.78 212.15	211.28 209.65	0.0200	200	0.016	0.00150	0.61	0.15	0.047 0.046 0.045	0 0	211.28 209.69	No
E16S06-30 384	587	107.73	215.10 214.54	212.60 212.04	0.0052	225	0.017	0.00300	0.44	0.24	0.033 0.032 0.029	0 0	212.63 212.11	No
E16S07-36 382	583	162.11	215.83 215.10	213.33 212.60	0.0045	200	0.017	0.00300	0.43	0.30	0.022 0.022 0.019	0 0	213.39 212.66	No
E16S08-45 1048	573	135.60	217.63 216.28	215.13 213.78	0.0100	225	0.017	0.00590	0.68	0.30	0.045 0.045 0.039	0 0	215.17 213.86	No
E16S09-01 1042	559	10.90	217.76 217.63	215.26 215.13	0.0118	250	0.017	0.00550	0.71	0.24	0.065 0.065 0.059	0 0	215.26 215.20	No
E16S09-04 1038	554	24.60	218.17 218.01	215.67 215.51	0.0067	250	0.017	0.00550	0.56	0.27	0.049 0.049 0.043	0 0	215.67 215.58	No

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E16S09-05 1036	556	100.20	218.49 218.17	215.99 215.67	0.0031	250	0.017	0.00550	0.42	0.32	0.033 0.033 0.028	0 0	216.07 215.75	No
E16S09-06 1034	562	100.51	218.86 218.49	216.36 215.99	0.0037	250	0.017	0.00550	0.46	0.32	0.036 0.036 0.031	0 0	216.40 216.07	No
E16S09-19 1040	557	59.00	218.01 217.76	215.51 215.26	0.0042	250	0.017	0.00550	0.47	0.29	0.039 0.039 0.033	0 0	215.58 215.33	No
E16S12-07 400	569	76.48	219.09 218.86	216.59 216.36	0.0030	250	0.016	0.00070	0.25	0.12	0.033 0.033 0.032	0 0	216.60 216.44	No
E16S12-13 398	571	62.60	219.37 219.09	216.87 216.59	0.0046	250	0.016	0.00070	0.30	0.12	0.040 0.040 0.039	0 0	216.90 216.62	No
E16S14-14 396	572	11.90	219.48 219.37	216.98 216.87	0.0095	250	0.016	0.00070	0.38	0.10	0.058 0.058 0.057	0 0	216.98 216.90	No
E16S14-15 394	575	125.60	220.12 219.48	217.62 216.98	0.0051	250	0.016	0.00070	0.28	0.10	0.043 0.042 0.042	0 0	217.64 217.01	No
E16S14-16 392	578	125.00	220.77 220.12	218.27 217.62	0.0052	250	0.016	0.00070	0.28	0.10	0.043 0.043 0.042	0 0	218.29 217.65	No
E16S14-17 390	585	125.00	221.39 220.77	218.89 218.27	0.0050	250	0.016	0.00070	0.28	0.10	0.042 0.042 0.041	0 0	218.92 218.29	No
E16S18-12 1510	605	70.12	221.97 221.82	219.47 219.32	0.0021	450	0.017	0.01060	0.43	0.23	0.131 0.130 0.120	0 0	219.57 219.43	No
E16S18-16 1508	603	69.70	222.09 221.97	219.59 219.47	0.0017	450	0.017	0.01060	0.39	0.23	0.119 0.118 0.108	0 0	219.69 219.57	No
E16S19-12 1114	608	63.07	225.32 221.82	222.82 219.32	0.0555	300	0.016	0.00160	0.94	0.08	0.228 0.227 0.226	0 0	222.83 219.41	No
E16S19-13 1112	609	36.00	228.06 225.32	225.56 222.82	0.0761	300	0.016	0.00160	0.93	0.06	0.268 0.267 0.265	0 0	225.57 222.84	No
E17S03-04 436	330	61.28	186.44 182.64	183.94 180.14	0.0620	225	0.015	0.00040	0.64	0.05	0.112 0.112 0.111	0 0	183.94 180.21	No
E17S04-04 1068	638	30.50	194.41 188.59	191.91 186.09	0.1907	300	0.017	0.02920	2.92	0.20	0.423 0.422 0.393	0 0	191.95 186.23	No

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E17S04-07 1066	636	26.80	206.95 194.41	204.45 191.91	0.4680	200	0.017	0.02920	4.36	0.30	0.225 0.224 0.195	0 0	204.51 191.97	No
E17S04-08 1064	635	53.07	211.08 206.95	208.58 204.45	0.0778	300	0.017	0.02920	2.15	0.26	0.270 0.269 0.240	0 0	208.66 204.53	No
E17S05-10 1060	625	139.91	213.72 211.44	211.22 208.94	0.0163	300	0.017	0.02400	1.14	0.35	0.124 0.123 0.099	0 0	211.28 209.07	No
E17S06-27 1058	328	137.81	214.53 213.72	212.03 211.22	0.0059	300	0.017	0.01910	0.75	0.41	0.074 0.074 0.055	0 0	212.15 211.34	No
E17S07-31 1056	321	140.51	215.18 214.53	212.68 212.03	0.0046	300	0.017	0.01480	0.65	0.39	0.066 0.066 0.051	0 0	212.74 212.15	No
E17S08-38 1054	618	13.04	215.13 215.18	212.63 212.68	-0.0042	300	0.000	0.01100	0.16	1.00	0.000 0.000 0.000	0 0	212.80 212.80	No
E17S08-44 450	616	132.53	216.35 215.13	213.85 212.63	0.0092	225	0.017	0.00400	0.59	0.24	0.043 0.043 0.039	0 0	213.85 212.80	No
E17S15-05 1086	621	76.20	217.38 216.21	214.88 213.71	0.0155	250	0.014	0.00000	0.22	0.02	0.074 0.074 0.074	0 0	214.89 213.77	No
E17S16-05 444	319	132.60	216.65 216.21	214.15 213.71	0.0034	300	0.016	0.00020	0.20	0.06	0.056 0.056 0.056	0 0	214.16 213.77	No
E17S16-07 442	323	131.70	217.05 216.65	214.55 214.15	0.0030	300	0.016	0.00020	0.18	0.06	0.053 0.053 0.053	0 0	214.57 214.17	No
E17S18-08 440	326	100.60	217.48 217.05	214.98 214.55	0.0043	250	0.015	0.00010	0.17	0.05	0.039 0.039 0.039	0 0	214.98 214.57	No
E17S19-07 1520	630	110.00	219.89 219.62	217.39 217.12	0.0024	450	0.017	0.01210	0.46	0.23	0.141 0.141 0.129	0 0	217.50 217.23	No
E17S19-08 1518	627	106.07	220.32 219.89	217.82 217.39	0.0041	450	0.017	0.01200	0.56	0.20	0.183 0.182 0.170	0 0	217.82 217.50	No
E17S19-09 438	331	106.70	218.76 217.48	216.26 214.98	0.0120	250	0.015	0.00010	0.28	0.05	0.065 0.065 0.065	0 0	216.27 214.99	No
E18A10-23 1494	545	71.18	226.09 225.67	223.59 223.17	0.0059	375	0.017	0.00770	0.58	0.20	0.135 0.135 0.127	0 0	223.66 223.24	No

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E18A16-08 428	324	117.30	217.84 217.05	215.34 214.55	0.0067	250	0.015	0.00010	0.21	0.05	0.049 0.049 0.049	0 0	215.35 214.57	No
E18A16-22 1496	576	92.33	225.67 222.99	223.17 220.49	0.0290	375	0.016	0.00770	1.04	0.13	0.300 0.298 0.291	0 0	223.20 220.57	No
E18A22-14 586	784	74.00	211.10 210.49	208.60 207.99	0.0082	300	0.015	0.00010	0.24	0.04	0.088 0.087 0.087	0 0	208.60 208.07	No
E18A22-15 584	770	82.00	212.32 211.10	209.82 208.60	0.0149	300	0.014	0.00010	0.22	0.02	0.118 0.118 0.118	0 0	209.82 208.61	No
E18A22-16 582	762	97.00	214.01 212.32	211.51 209.82	0.0174	300	0.014	0.00010	0.24	0.02	0.128 0.128 0.127	0 0	211.52 209.83	No
E18A23-10 1552	809	129.90	207.43 203.77	204.93 201.27	0.0282	600	0.016	0.01350	1.14	0.09	1.033 1.029 1.016	0 0	204.96 201.33	No
E18A23-11 1550	798	130.10	209.48 207.43	206.98 204.93	0.0158	600	0.016	0.01350	0.91	0.10	0.773 0.770 0.756	0 0	207.04 204.99	No
E18A23-12 1548	793	126.90	210.49 209.48	207.99 206.98	0.0080	600	0.016	0.01350	0.72	0.12	0.550 0.548 0.534	0 0	208.07 207.05	No
E18A23-6 1562	828	40.00	192.82 192.39	190.32 189.89	0.0106	600	0.016	0.01360	0.79	0.11	0.635 0.632 0.619	0 0	190.36 189.96	No
E18A23-7 1560	825	118.00	194.07 192.82	191.57 190.32	0.0106	600	0.016	0.01350	0.79	0.11	0.635 0.632 0.619	0 0	191.64 190.39	No
E18A23-8 1558	815	115.00	195.74 194.07	193.24 191.57	0.0145	600	0.016	0.01350	0.92	0.11	0.742 0.739 0.725	0 0	193.28 191.64	No
E18A23-9 1556	297	122.60	198.92 195.74	196.42 193.24	0.0259	600	0.016	0.01350	1.09	0.09	0.991 0.987 0.974	0 0	196.42 193.31	No
E18A23-9A 1554	288	134.20	203.77 198.92	201.27 196.42	0.0362	600	0.016	0.01350	1.29	0.09	1.172 1.167 1.154	0 0	201.30 196.47	No
E18aS05-17 476	668	76.20	213.21 212.48	210.71 209.98	0.0096	200	0.016	0.00030	0.32	0.09	0.032 0.032 0.032	0 0	210.73 210.05	No
E18S02-01 1672	657	13.21	177.98 176.22	175.48 173.72	0.1332	375	0.016	0.03430	2.64	0.18	0.642 0.639 0.605	0 0	175.48 174.23	No

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E18S02-05 1244	652	45.36	181.54 178.99	179.04 176.49	0.0561	375	0.017	0.03430	1.95	0.23	0.417 0.415 0.381	0 0	179.04 176.78	No
E18S03-01 1072	650	50.29	188.09 181.54	185.59 179.04	0.1303	350	0.017	0.03000	2.59	0.19	0.528 0.526 0.496	0 0	185.59 179.12	No
E18S05-16 482	660	137.50	213.18 212.29	210.68 209.79	0.0064	200	0.017	0.00270	0.48	0.27	0.026 0.026 0.024	0 0	210.73 209.87	No
E18S06-23 466	656	112.80	216.20 213.18	213.70 210.68	0.0268	200	0.016	0.00060	0.53	0.09	0.054 0.054 0.053	0 0	213.70 210.73	No
E18S08-40 452	643	75.60	217.65 216.77	215.15 214.27	0.0115	200	0.017	0.00290	0.60	0.24	0.035 0.035 0.032	0 0	215.20 214.32	No
E19A15-17 1506	601	36.63	222.24 222.09	219.74 219.59	0.0041	450	0.017	0.01060	0.54	0.19	0.183 0.182 0.172	0 0	219.79 219.69	No
E19A15-18 1504	596	52.24	222.31 222.24	219.81 219.74	0.0013	450	0.017	0.01060	0.35	0.24	0.105 0.104 0.094	0 0	219.92 219.85	No
E19A16-09 1516	333	87.75	221.64 220.32	219.14 217.82	0.0150	450	0.016	0.01200	0.90	0.15	0.350 0.349 0.337	0 0	219.18 217.92	No
E19A16-10 1514	624	43.16	221.70 221.64	219.20 219.14	0.0013	450	0.017	0.01200	0.37	0.27	0.102 0.102 0.090	0 0	219.32 219.26	No
E19A16-11 1512	614	30.43	221.82 221.70	219.32 219.20	0.0041	450	0.017	0.01200	0.56	0.20	0.184 0.183 0.171	0 0	219.32 219.32	No
E19S05-18 494	676	77.70	213.96 212.95	211.46 210.45	0.0130	200	0.016	0.00020	0.37	0.09	0.038 0.037 0.037	0 0	211.46 210.51	No
E19S06-07 484	673	78.60	216.68 214.87	214.18 212.37	0.0231	200	0.016	0.00210	0.73	0.18	0.050 0.050 0.048	0 0	214.18 212.43	No
E20A15-14 1110	610	90.04	228.65 228.06	226.15 225.56	0.0066	300	0.016	0.00160	0.41	0.12	0.079 0.078 0.077	0 0	226.19 225.60	No
E20A17-05 1524	661	121.24	218.89 218.89	216.39 216.39	0.0000	600	0.000	0.01210	0.06	1.00	0.000 0.000 0.000	0 0	216.48 216.48	No
E20A17-06 1522	646	103.50	219.62 218.89	217.12 216.39	0.0071	450	0.016	0.01210	0.68	0.18	0.241 0.240 0.228	0 0	217.12 216.48	No

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E20A18-01 1532	712	98.41	217.40 217.02	214.90 214.52	0.0039	600	0.016	0.01210	0.54	0.14	0.383 0.381 0.369	0 0	214.99 214.61	No
E20A18-02 1530	697	98.70	217.85 217.40	215.35 214.90	0.0046	600	0.016	0.01210	0.57	0.13	0.417 0.416 0.403	0 0	215.40 214.99	No
E20A18-03 1528	678	103.50	218.43 217.85	215.93 215.35	0.0055	600	0.016	0.01210	0.63	0.13	0.458 0.456 0.444	0 0	215.97 215.43	No
E20A18-04 1526	669	99.50	218.89 218.43	216.39 215.93	0.0047	600	0.016	0.01210	0.58	0.13	0.421 0.419 0.407	0 0	216.47 216.01	No
E20A20-20 1540	790	125.60	215.15 213.45	212.65 210.95	0.0136	600	0.016	0.01220	0.84	0.10	0.717 0.714 0.702	0 0	212.69 211.02	No
E20A20-21 1538	771	123.00	215.69 215.15	213.19 212.65	0.0044	600	0.016	0.01220	0.56	0.13	0.407 0.405 0.393	0 0	213.27 212.73	No
E20A20-22 1536	757	122.40	216.26 215.69	213.76 213.19	0.0046	600	0.016	0.01220	0.57	0.13	0.418 0.416 0.404	0 0	213.83 213.27	No
E20A20-23 1534	732	128.90	217.02 216.26	214.52 213.76	0.0059	600	0.016	0.01220	0.62	0.12	0.474 0.473 0.460	0 0	214.56 213.83	No
E20S05-04 504	710	134.10	214.23 213.59	211.73 211.09	0.0047	200	0.017	0.00500	0.49	0.37	0.023 0.023 0.018	0 0	211.73 211.17	No
E20S06-05 502	705	68.00	215.65 214.23	213.15 211.73	0.0209	200	0.017	0.00300	0.76	0.21	0.048 0.047 0.044	0 0	213.17 211.80	No
E20S06-09 500	702	76.62	215.96 215.65	213.46 213.15	0.0041	200	0.017	0.00300	0.41	0.30	0.021 0.021 0.018	0 0	213.52 213.21	No
E20S07-23 514	694	50.25	216.29 215.56	213.79 213.06	0.0146	200	0.016	0.00050	0.39	0.09	0.040 0.040 0.039	0 0	213.79 213.11	No
E20S08-37 512	688	97.50	215.33 212.62	212.83 210.12	0.0278	200	0.016	0.00080	0.65	0.12	0.055 0.055 0.054	0 0	212.83 210.20	No
E20S09-37 1639	681	81.00	213.03 212.67	210.53 210.17	0.0044	400	0.016	0.00510	0.46	0.15	0.139 0.138 0.133	0 0	210.57 210.25	No
E20S10-01 1637	680	73.70	213.25 213.03	210.75 210.53	0.0030	400	0.016	0.00510	0.40	0.17	0.115 0.114 0.109	0 0	210.82 210.60	No

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E20S11-02 1635	683	97.30	213.53 213.25	211.03 210.75	0.0028	400	0.016	0.00510	0.39	0.17	0.111 0.111 0.106	0 0	211.10 210.82	No
E20S12-03 1633	686	106.70	213.84 213.53	211.34 211.03	0.0029	400	0.016	0.00510	0.39	0.17	0.113 0.113 0.107	0 0	211.38 211.10	No
E20S14-04 1631	689	126.03	214.21 213.84	211.71 211.34	0.0030	400	0.016	0.00510	0.40	0.17	0.114 0.113 0.108	0 0	211.78 211.41	No
E20S16-05 1148	693	79.25	214.39 214.21	211.89 211.71	0.0023	350	0.015	0.00020	0.16	0.05	0.070 0.069 0.069	0 0	211.91 211.78	No
E20S16-09 1146	696	106.99	214.78 214.39	212.28 211.89	0.0036	350	0.015	0.00020	0.16	0.03	0.088 0.088 0.088	0 0	212.29 211.91	No
E20S16-10 1144	700	153.31	215.18 214.78	212.68 212.28	0.0026	350	0.015	0.00020	0.17	0.05	0.075 0.075 0.074	0 0	212.70 212.30	No
E20S18-11 1142	701	93.27	215.41 215.18	212.91 212.68	0.0024	350	0.015	0.00020	0.17	0.05	0.072 0.072 0.072	0 0	212.93 212.70	No
E20S18-12 1140	706	87.78	215.60 215.41	213.10 212.91	0.0022	350	0.015	0.00020	0.16	0.05	0.069 0.069 0.068	0 0	213.12 212.93	No
E20S19-13 1138	707	149.05	216.67 215.60	214.17 213.10	0.0072	300	0.015	0.00020	0.23	0.04	0.082 0.082 0.082	0 0	214.17 213.12	No
E20S19-14 1136	711	151.65	217.41 216.67	214.91 214.17	0.0048	300	0.015	0.00010	0.18	0.04	0.067 0.067 0.067	0 0	214.92 214.19	No
E20S20-01 544	713	15.24	217.84 217.02	215.34 214.52	0.0538	300	0.014	0.00010	0.41	0.02	0.225 0.224 0.224	0 0	215.35 214.59	No
E20S20-29a 542	717	106.07	219.82 217.84	217.32 215.34	0.0187	300	0.014	0.00010	0.24	0.02	0.133 0.132 0.132	0 0	217.33 215.35	No
E20S20-30 540	720	137.16	221.20 219.82	218.70 217.32	0.0101	300	0.014	0.00010	0.18	0.02	0.097 0.097 0.097	0 0	218.71 217.33	No
E20S20-31 538	725	117.96	221.46 221.20	218.96 218.70	0.0022	300	0.015	0.00010	0.12	0.04	0.046 0.045 0.045	0 0	218.97 218.71	No
E21AS08-19 558	743	88.00	212.43 212.16	209.93 209.66	0.0031	250	0.016	0.00050	0.22	0.10	0.033 0.033 0.032	0 0	209.93 209.75	No

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E21S03-03 1663	748	21.90	177.64 177.58	175.14 175.08	0.0027	200	0.013	0.03450	1.10	1.00	0.017 0.017 -0.017	300 250	175.35 175.35	No
E21S03-04 1661	746	88.40	208.52 177.64	206.02 175.14	0.3493	200	0.017	0.03450	3.98	0.34	0.194 0.194 0.159	0 0	206.02 175.52	No
E21S03-05 1657	741	32.76	210.50 209.86	208.00 207.36	0.0194	450	0.017	0.03450	1.31	0.23	0.398 0.397 0.362	0 0	208.10 207.46	No
E21S03-25 1659	742	3.00	209.86 208.52	207.36 206.02	0.4467	450	0.016	0.03450	4.15	0.11	1.911 1.903 1.869	0 0	207.39 206.09	No
E21S05-01 1655	738	84.10	210.75 210.50	208.25 208.00	0.0030	450	0.017	0.02990	0.64	0.34	0.158 0.157 0.127	0 0	208.40 208.15	No
E21S06-13 1653	734	140.20	210.98 210.75	208.48 208.25	0.0017	450	0.017	0.02750	0.50	0.38	0.116 0.116 0.088	0 0	208.65 208.42	No
E21S07-14 1651	729	141.63	211.60 210.98	209.10 208.48	0.0043	450	0.017	0.02450	0.69	0.28	0.188 0.188 0.163	0 0	209.10 208.65	No
E21S08-18 1649	724	135.30	211.96 211.60	209.46 209.10	0.0027	450	0.017	0.01280	0.49	0.23	0.149 0.148 0.135	0 0	209.52 209.23	No
E23S08-51 1096	781	100.00	214.60 214.55	212.10 212.05	0.0005	250	0.016	0.00590	0.23	0.54	0.013 0.013 0.007	0 0	212.23 212.18	No
E23S08-52 1094	775	102.05	214.68 214.65	212.18 212.15	0.0003	250	0.016	0.00590	0.19	0.63	0.010 0.010 0.004	0 0	212.34 212.31	No
E23S16-14 608	783	85.05	211.17 210.49	208.67 207.99	0.0080	300	0.016	0.00050	0.30	0.06	0.087 0.086 0.086	0 0	208.68 208.07	No
E23S16-26 602	774	110.00	212.24 211.91	209.74 209.41	0.0030	250	0.016	0.00050	0.22	0.10	0.033 0.033 0.032	0 0	209.76 209.43	No
E23S16-27 604	777	35.29	211.91 211.44	209.41 208.94	0.0132	250	0.016	0.00050	0.38	0.07	0.069 0.068 0.068	0 0	209.42 208.97	No
E23S16-28 606	779	74.00	211.44 211.17	208.94 208.67	0.0037	250	0.016	0.00050	0.24	0.10	0.036 0.036 0.036	0 0	208.97 208.70	No
E23S18-14 1546	786	134.90	211.48 210.49	208.98 207.99	0.0073	600	0.016	0.01220	0.69	0.12	0.525 0.523 0.511	0 0	209.02 208.07	No

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E23S18-18 1544	787	136.50	212.35 211.48	209.85 208.98	0.0064	600	0.016	0.01220	0.65	0.12	0.492 0.490 0.478	0 0	209.92 209.05	No
E23S18-19 1542	789	124.00	213.45 212.35	210.95 209.85	0.0089	600	0.016	0.01220	0.72	0.11	0.581 0.579 0.567	0 0	210.99 209.92	No
E25aS08-24 628	279	71.00	208.93 208.33	206.43 205.83	0.0085	200	0.017	0.00200	0.48	0.21	0.030 0.030 0.028	0 0	206.47 205.89	No
E25S07-31 614	803	126.24	214.92 214.42	212.42 211.92	0.0039	200	0.017	0.00250	0.38	0.27	0.021 0.021 0.018	0 0	212.48 211.98	No
E26S07-37 632	280	30.30	214.82 214.60	212.32 212.10	0.0073	200	0.017	0.00160	0.45	0.21	0.028 0.028 0.026	0 0	212.36 212.14	No
E26S08-18 662	285	60.20	206.72 205.64	204.22 203.14	0.0179	200	0.016	0.00040	0.44	0.09	0.044 0.044 0.044	0 0	204.23 203.21	No
E27S08-11 682	812	57.38	202.92 199.52	200.42 197.02	0.0593	200	0.017	0.00740	1.37	0.24	0.080 0.080 0.072	0 0	200.45 197.08	No
E27S08-23 680	307	57.38	203.45 202.92	200.95 200.42	0.0092	200	0.017	0.00670	0.68	0.37	0.032 0.032 0.025	0 0	201.02 200.49	No
E28S03-01 1582	303	43.70	186.93 186.83	184.43 184.33	0.0022	900	0.016	0.01430	0.45	0.10	0.855 0.852 0.838	0 0	184.78 184.78	No
E28S03-02 694	814	127.97	189.34 188.37	186.84 185.87	0.0076	250	0.016	0.01550	0.79	0.44	0.052 0.052 0.036	0 0	186.95 185.98	No
E28S03-03 1580	813	95.45	187.13 186.93	184.63 184.43	0.0021	900	0.016	0.01430	0.44	0.10	0.839 0.836 0.822	0 0	184.78 184.78	No
E28S03-04 1578	819	114.40	187.39 187.13	184.89 184.63	0.0023	900	0.016	0.01430	0.45	0.10	0.862 0.859 0.844	0 0	184.94 184.78	No
E28S03-07 1576	823	30.67	187.48 187.39	184.98 184.89	0.0029	900	0.016	0.01430	0.49	0.09	0.978 0.974 0.960	0 0	184.98 184.98	No
E28S03-23 696	300	22.16	188.37 187.09	185.87 184.59	0.0578	250	0.017	0.01550	1.66	0.27	0.143 0.143 0.127	0 0	185.87 184.78	No
E28S07-01 1574	826	133.30	187.80 187.48	185.30 184.98	0.0024	900	0.016	0.01430	0.46	0.10	0.888 0.885 0.870	0 0	185.39 185.07	No

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E28S07-02 1572	827	126.70	188.05 187.80	185.55 185.30	0.0020	900	0.016	0.01430	0.42	0.10	0.811 0.808 0.794	0 0	185.64 185.39	No
E28S07-06 692	818	109.68	190.36 189.34	187.86 186.84	0.0093	250	0.016	0.01550	0.85	0.41	0.058 0.057 0.042	0 0	187.86 186.95	No
E28S07-07 690	820	84.00	191.48 190.36	188.98 187.86	0.0133	250	0.017	0.01550	0.98	0.39	0.069 0.069 0.053	0 0	189.04 187.96	No
E28S08-08 688	822	105.50	201.43 191.48	198.93 188.98	0.0944	200	0.016	0.00090	1.00	0.09	0.101 0.101 0.100	0 0	198.93 189.08	No
E28S08-09 686	817	70.60	203.65 201.43	201.15 198.93	0.0314	200	0.016	0.00090	0.69	0.12	0.058 0.058 0.057	0 0	201.17 198.96	No
E29S17-03 1570	831	37.20	188.18 188.05	185.68 185.55	0.0036	900	0.016	0.01430	0.53	0.09	1.094 1.089 1.075	0 0	185.73 185.64	No
E29S17-04 1568	832	46.00	189.21 188.18	186.71 185.68	0.0222	600	0.016	0.01360	1.08	0.10	0.917 0.914 0.900	0 0	186.71 185.76	No
E29S17-05 1566	830	69.40	191.66 189.21	189.16 186.71	0.0353	600	0.016	0.01360	1.28	0.09	1.157 1.152 1.139	0 0	189.16 186.77	No
E29S17-5A 1564	829	69.25	192.39 191.66	189.89 189.16	0.0107	600	0.016	0.01360	0.79	0.11	0.636 0.633 0.620	0 0	189.96 189.22	No
E32S03-X2 704	841	116.46	180.89 180.22	178.39 177.72	0.0057	200	0.016	0.00030	0.25	0.09	0.025 0.025 0.025	0 0	178.41 177.74	No
E32S03-X3 702	839	218.40	181.96 180.89	179.46 178.39	0.0049	200	0.016	0.00030	0.23	0.09	0.023 0.023 0.023	0 0	179.48 178.41	No
E32S03-X4 700	838	151.57	182.77 181.96	180.27 179.46	0.0053	200	0.016	0.00030	0.24	0.09	0.024 0.024 0.024	0 0	180.29 179.48	No
E32S03-X5 698	837	65.88	183.23 182.77	180.73 180.27	0.0070	200	0.016	0.00030	0.27	0.09	0.028 0.028 0.027	0 0	180.75 180.29	No
E32S03-XX 706	843	23.46	180.22 179.93	177.72 177.43	0.0125	200	0.016	0.00030	0.37	0.09	0.037 0.037 0.036	0 0	177.74 177.45	No
E5AA08-18 132	259	55.24	191.72 189.36	189.22 186.86	0.0427	225	0.015	0.00040	0.53	0.05	0.093 0.093 0.092	0 0	189.22 186.88	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surchge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E5AA08-18	34.56	189.68	187.18	0.0094	225	0.016	0.00050	0.38	0.11	0.044	0	187.19	No
142	264	189.36	186.86							0.043	0	186.88	
										0.043			
E7SA05-117	91.38	217.03	214.53	0.0169	250	0.016	0.00190	0.59	0.12	0.078	0	214.56	No
1250	225	215.48	212.98							0.077	0	213.01	
										0.075			
E8S08-48	121.89	241.34	238.84	0.1022	250	0.016	0.00640	1.58	0.15	0.191	0	238.86	No
962	262	228.88	226.38							0.190	0	226.43	
										0.184			
EBSRD32-01	79.11	187.64	185.14	0.0035	350	0.015	0.00010	0.16	0.03	0.087	0	185.15	No
734	824	187.36	184.86							0.087	0	184.87	
										0.087			
EBSRD32-02	98.23	187.91	185.41	0.0028	350	0.015	0.00010	0.14	0.03	0.077	0	185.42	No
732	833	187.64	185.14							0.076	0	185.15	
										0.076			
EBSRD32-03	69.05	188.11	185.61	0.0029	350	0.015	0.00010	0.15	0.03	0.079	0	185.62	No
730	834	187.91	185.41							0.078	0	185.42	
										0.078			
EBSRD32-12	64.69	178.19	175.69	0.0039	250	0.017	0.00610	0.47	0.32	0.037	0	175.77	No
716	846	177.94	175.44							0.037	0	175.52	
										0.031			
EBSRD32-13	109.32	178.38	175.88	0.0017	250	0.017	0.00610	0.35	0.39	0.025	0	175.98	No
714	847	178.19	175.69							0.025	0	175.79	
										0.019			
EBSRD32-14	120.30	178.64	176.14	0.0022	250	0.017	0.00610	0.38	0.37	0.028	0	176.14	No
712	848	178.38	175.88							0.028	0	175.98	
										0.022			
EBSRD32-15	84.55	178.94	176.44	0.0036	250	0.017	0.00610	0.47	0.34	0.036	0	176.49	No
710	849	178.64	176.14							0.035	0	176.23	
										0.029			
EBSRD32-16	78.68	179.25	176.75	0.0039	250	0.017	0.00610	0.48	0.32	0.037	0	176.75	No
708	850	178.94	176.44							0.037	0	176.53	
										0.031			
EBSRD32-23	144.64	187.36	184.86	0.0019	350	0.015	0.00010	0.12	0.03	0.064	0	184.87	No
736	816	187.09	184.59							0.063	0	184.78	
										0.063			
EE06A04-5	55.23	212.29	209.79	0.0023	300	0.016	0.00110	0.25	0.12	0.047	0	209.83	No
14	92	212.16	209.66							0.047	0	209.83	
										0.045			
EHARPARC-105	57.04	241.05	238.55	0.0395	200	0.016	0.00170	0.86	0.15	0.065	0	238.57	No
1130	405	238.80	236.30							0.065	0	236.33	
										0.063			
EHARPARC-106	19.50	241.51	239.01	0.0235	200	0.016	0.00170	0.67	0.15	0.050	0	239.04	No
1128	410	241.05	238.55							0.050	0	238.58	
										0.049			

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
EহারPARC-107	30.00	241.69	239.19	0.0060	200	0.017	0.00170	0.41	0.21	0.026	0	239.23	No
1126	409	241.51	239.01							0.025	0	239.05	
										0.024			
EহারPARC-108	96.94	242.23	239.73	0.0056	200	0.017	0.00170	0.39	0.21	0.025	0	239.77	No
1124	407	241.69	239.19							0.025	0	239.23	
										0.023			
EহারPARC-109	81.95	243.19	240.69	0.0117	200	0.016	0.00170	0.52	0.18	0.036	0	240.71	No
1122	378	242.23	239.73							0.036	0	239.77	
										0.034			
EহারPARKC-110	100.00	244.80	242.30	0.0161	200	0.016	0.00170	0.61	0.18	0.042	0	242.34	No
1120	357	243.19	240.69							0.042	0	240.73	
										0.040			
ELAMSON	47.60	242.97	240.47	0.0199	200	0.016	0.00050	0.46	0.09	0.046	0	240.47	No
1392	420	242.02	239.52							0.046	0	239.55	
										0.046			
ELAMSON-69	39.90	237.32	234.82	0.1221	200	0.016	0.00310	1.52	0.15	0.115	0	234.84	No
1396	464	232.45	229.95							0.115	0	230.00	
										0.111			
ELAMSON-70	84.88	238.49	235.99	0.0137	220	0.016	0.00050	0.39	0.08	0.050	0	235.99	No
246	450	237.32	234.82							0.049	0	234.85	
										0.049			
ELAMSON-70	96.00	242.02	239.52	0.0489	200	0.016	0.00200	0.96	0.15	0.073	0	239.55	No
1394	444	237.32	234.82							0.073	0	234.85	
										0.071			
ELAMSON-75	17.40	243.66	241.16	0.0399	200	0.016	0.00020	0.51	0.06	0.066	0	241.16	No
236	423	242.97	240.47							0.066	0	240.48	
										0.065			
ELAMSON-77	40.74	238.47	235.97	0.1143	200	0.013	0.00000	0.06	0.00	0.111	0	235.97	No
1160	468	233.82	231.32							0.111	0	231.34	
										0.111			
ELAMSON-79	123.80	243.90	241.40	0.0438	200	0.016	0.00050	0.68	0.09	0.069	0	241.42	No
244	451	238.49	235.99							0.069	0	236.00	
										0.068			
ELAURIE-71	64.30	242.36	239.86	0.0053	200	0.016	0.00060	0.32	0.15	0.024	0	239.89	No
1389	419	242.02	239.52							0.024	0	239.55	
										0.023			
ELAURIE-72	47.78	243.55	241.05	0.0248	200	0.016	0.00060	0.52	0.09	0.052	0	241.06	No
1387	415	242.36	239.86							0.052	0	239.89	
										0.051			
ELAURIE-73	112.20	245.20	242.70	0.0147	200	0.016	0.00060	0.47	0.12	0.040	0	242.72	No
1385	403	243.55	241.05							0.040	0	241.07	
										0.039			
ELAURIE-75	47.90	245.20	242.70	0.0466	200	0.016	0.00030	0.55	0.06	0.071	0	242.70	No
1390	421	242.97	240.47							0.071	0	240.48	
										0.070			

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
ESYDCRES-3 872	94	33.50	184.89 184.72	182.39 182.22	0.0052	150	0.017	0.00180	0.39	0.33	0.011 0.011 0.009	0 0	184.09 184.09	No
EVICTORIA 250	470	71.69	214.03 213.67	211.53 211.17	0.0050	250	0.014	0.00000	0.12	0.02	0.042 0.042 0.042	0 0	211.53 211.17	No
EVICTORIA 252	473	56.67	213.67 213.39	211.17 210.89	0.0048	250	0.014	0.00000	0.12	0.02	0.042 0.041 0.041	0 0	211.17 210.90	No
EVICTORIA-25 256	439	99.00	213.12 211.13	210.62 208.63	0.0201	300	0.014	0.00000	0.25	0.02	0.137 0.137 0.137	0 0	210.62 208.70	No
EVICTORIA-93 254	472	91.96	213.39 213.12	210.89 210.62	0.0030	300	0.014	0.00000	0.10	0.02	0.053 0.053 0.053	0 0	210.90 210.62	No
HOSPITAL471 258	471	75.77	231.09 230.58	228.59 228.08	0.0066	200	0.016	0.00090	0.35	0.15	0.027 0.027 0.026	0 0	228.62 228.11	No
HOSPITAL491 262	491	90.03	229.91 228.27	227.41 225.77	0.0182	200	0.016	0.00090	0.53	0.12	0.044 0.044 0.043	0 0	227.43 225.81	No
HOSPITAL492 260	492	118.08	230.58 229.91	228.08 227.41	0.0057	200	0.016	0.00090	0.33	0.15	0.025 0.025 0.024	0 0	228.11 227.44	No
P_I758 580	758	148.34	174.70 174.10	172.20 171.60	0.0040	1000	0.013	0.00000	0.06	0.00	1.520 1.514 1.514	0 0	211.52 211.52	No
P17 320	17	127.72	189.20 188.54	186.70 186.04	0.0052	225	0.016	0.00070	0.28	0.11	0.032 0.032 0.032	0 0	186.72 186.06	No
P206 70	206	31.36	235.78 235.45	233.28 232.95	0.0104	200	0.015	0.00000	0.18	0.03	0.034 0.033 0.033	0 0	233.28 232.96	No
P214 72	214	20.25	235.45 235.16	232.95 232.66	0.0145	225	0.015	0.00000	0.21	0.03	0.054 0.054 0.054	0 0	232.95 232.69	No
P427 242	427	48.73	215.16 214.75	212.66 212.25	0.0084	300	0.016	0.00070	0.37	0.08	0.089 0.088 0.088	0 0	212.67 212.34	No
P449 240	449	187.55	215.87 215.16	213.37 212.66	0.0038	300	0.016	0.00070	0.25	0.08	0.060 0.060 0.059	0 0	213.39 212.68	No
P512 318	512	74.62	189.69 189.20	187.19 186.70	0.0067	200	0.016	0.00070	0.32	0.12	0.027 0.027 0.026	0 0	187.22 186.72	No

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Existing Pipes - Sorted by User's ID

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
P721 568	721	7.50	212.19 211.96	209.69 209.46	0.0307	200	0.016	0.00230	0.84	0.18	0.058 0.057 0.055	0 0	209.69 209.57	No
P722 566	722	14.15	212.45 212.19	209.95 209.69	0.0182	200	0.016	0.00230	0.65	0.18	0.044 0.044 0.042	0 0	209.99 209.73	No
P736 564	736	116.04	213.12 212.45	210.62 209.95	0.0057	200	0.017	0.00230	0.43	0.24	0.025 0.025 0.023	0 0	210.66 210.00	No
P739 552	739	65.70	213.58 211.67	211.08 209.17	0.0290	200	0.016	0.00090	0.66	0.12	0.056 0.056 0.055	0 0	211.08 209.20	No
P744 562	744	48.29	213.51 213.12	211.01 210.62	0.0081	200	0.017	0.00230	0.47	0.21	0.030 0.030 0.027	0 0	211.01 210.66	No
P745 560	745	67.94	215.32 213.51	212.82 211.01	0.0267	200	0.016	0.00230	0.79	0.18	0.054 0.054 0.051	0 0	212.82 211.05	No
P749 570	749	17.48	211.88 211.61	209.38 209.11	0.0154	200	0.016	0.00030	0.41	0.09	0.041 0.041 0.040	0 0	209.38 209.14	No
P750 554	750	44.11	211.67 211.30	209.17 208.80	0.0085	200	0.016	0.00090	0.40	0.15	0.030 0.030 0.029	0 0	209.20 208.83	No
P753 556	753	22.00	211.30 211.01	208.80 208.51	0.0131	200	0.016	0.00090	0.45	0.12	0.038 0.038 0.037	0 0	208.80 208.57	No
P754 576	754	26.31	211.92 211.61	209.42 209.11	0.0116	200	0.016	0.00060	0.42	0.12	0.035 0.035 0.035	0 0	209.42 209.14	No
P755 572	755	45.07	212.30 211.92	209.80 209.42	0.0084	200	0.016	0.00010	0.24	0.06	0.030 0.030 0.030	0 0	209.80 209.44	No
P756 574	756	33.28	212.25 211.92	209.75 209.42	0.0100	200	0.016	0.00050	0.39	0.12	0.033 0.033 0.032	0 0	209.78 209.44	No
P760 578	760	70.82	211.61 211.13	209.11 208.63	0.0068	200	0.016	0.00100	0.36	0.15	0.027 0.027 0.026	0 0	209.13 208.68	No
P764 590	764	82.75	211.82 211.29	209.32 208.79	0.0064	200	0.016	0.00050	0.31	0.12	0.026 0.026 0.026	0 0	209.32 208.83	No
P765 588	765	40.44	212.18 211.82	209.68 209.32	0.0090	200	0.016	0.00050	0.37	0.12	0.031 0.031 0.031	0 0	209.71 209.35	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surchge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
PLANT_INLET	65.87	175.16	172.66	0.0040	,000	0.017	0.38690	1.36	0.40	1.519	0	173.06	No
1684	735	174.90	172.40							1.513	0	172.79	
										1.126			

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Pressure Pipes - Sorted by User's ID

UserID		Length	Ground	Invert	Slope	Diam	"C"	DesignQ	DesVel	Lift	Frict	Pres	H.P.	HGL
SEQ	G_ID		Up/Dn	Up/Dn							Head	Head	Req'd	Up/Dn
BP487		102.48	229.35	226.85	0.0106	250	100.0	0.003	0.72	-1.08	1.238	-1	0.00	226.90
1484	487		228.27	225.77										225.82
E05A04FM-9		91.40	184.20	181.70	-0.0663	100	100.0	0.000	0.00	6.06	0.000	6	0.00	187.79
844	77		190.26	187.76										187.79
E05S01-1		128.30	185.12	182.62	-0.0074	225	100.0	0.002	0.05	0.95	0.010	1	0.00	183.77
876	103		186.07	183.57										183.77
E05SYD-2		61.27	184.72	182.22	-0.0066	75	100.0	0.002	0.41	0.40	1.050	1	0.00	184.09
874	99		185.12	182.62										183.77
EBSRD32-FM		405.40	177.94	175.44	-0.0059	150	100.0	0.006	0.34	2.41	2.269	3	0.00	178.60
718	845		180.35	177.85										177.93
FM835		65.58	176.87	174.37	-0.1714	200	100.0	0.000	0.00	11.24	0.000	11	0.00	185.63
728	835		188.11	185.61										185.63
FM836		50.88	177.07	174.57	0.0040	200	100.0	0.000	0.21	-0.20	0.083	0	0.00	176.87
726	836		176.87	174.37										176.87
FM840		561.55	179.52	177.02	0.0044	200	100.0	0.000	0.00	-2.45	0.000	-2	0.00	177.02
724	840		177.07	174.57										176.87
FM842		52.54	179.93	177.43	0.0078	200	100.0	0.000	0.00	-0.41	0.000	0	0.00	177.43
722	842		179.52	177.02										177.02
FM844		42.76	180.35	177.85	0.0099	150	100.0	0.006	0.84	-0.42	1.260	0	0.00	177.93
720	844		179.93	177.43										177.51
PARKVIEW_FM		357.71	214.15	211.65	-0.0073	100	100.0	0.000	0.00	2.60	0.000	3	0.00	214.25
756	29		216.75	214.25										214.25



BURNSIDE

Appendix E2

Ultimate Plan Hydra Output

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
10A09-105 204	406	43.33	242.53 238.80	240.03 236.30	0.0861	200	0.016	0.00180	1.14	0.12	0.097 0.096 0.094	0 0	240.03 236.33	No
15aS09-49 316	506	46.65	220.74 219.40	218.24 216.90	0.0287	200	0.017	0.00610	1.02	0.27	0.056 0.056 0.049	0 0	218.27 217.00	No
1689 1504	1689	44.50	179.83 179.42	177.33 176.92	0.0092	450	0.017	0.03070	0.96	0.26	0.274 0.273 0.243	0 0	177.33 177.05	No
BP490 1548	490	17.78	228.27 227.52	225.77 225.02	0.0421	300	0.016	0.00440	1.05	0.12	0.199 0.198 0.194	0 0	225.79 225.11	No
BP653 1734	653	2.62	178.99 177.99	176.49 175.49	0.3810	375	0.016	0.03430	4.00	0.15	1.085 1.081 1.047	0 0	176.53 175.55	No
BP654 1732	654	10.18	179.01 178.99	176.51 176.49	0.0015	375	0.013	0.00000	0.06	0.00	0.068 0.067 0.067	0 0	176.55 176.55	No
BP662 1749	662	180.21	178.62 178.35	176.12 175.85	0.0015	375	0.016	0.00090	0.20	0.10	0.067 0.067 0.066	0 0	176.15 175.89	No
E01A05-37 760	19	81.74	216.40 216.06	213.90 213.56	0.0041	250	0.013	0.00000	0.06	0.00	0.038 0.038 0.038	0 0	213.90 213.63	No
E01A06-08 1380	165	131.43	183.48 182.95	180.98 180.45	0.0041	525	0.016	0.08000	0.94	0.43	0.275 0.274 0.194	0 0	181.21 180.67	No
E01A06-2 1378	141	88.14	184.00 183.48	181.50 180.98	0.0059	525	0.017	0.08000	1.06	0.38	0.330 0.329 0.249	0 0	181.50 181.21	No
E01A06-8 1389	169	8.50	183.61 182.95	181.11 180.45	0.0774	300	0.017	0.01660	1.86	0.20	0.270 0.269 0.252	0 0	181.14 180.66	No
E01A07-4 1397	207	28.00	181.72 180.75	179.22 178.25	0.0348	525	0.017	0.09140	2.10	0.27	0.804 0.801 0.709	0 0	179.36 178.45	No
E01A07-5 1395	200	38.20	182.02 181.72	179.52 179.22	0.0080	525	0.017	0.09140	1.23	0.38	0.385 0.383 0.292	0 0	179.73 179.42	No

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E01A07-6 1393	195	64.60	182.48 182.02	179.98 179.52	0.0070	525	0.017	0.09140	1.17	0.39	0.360 0.359 0.268	0 0	180.18 179.73	No
E01A07-7 1391	188	65.20	182.95 182.48	180.45 179.98	0.0073	525	0.017	0.09130	1.19	0.39	0.367 0.366 0.275	0 0	180.66 180.18	No
E01A08-1 1416	265	108.80	179.81 178.75	177.31 176.25	0.0097	600	0.017	0.14510	1.49	0.39	0.607 0.605 0.460	0 0	177.31 176.58	No
E01A08-2 1414	245	84.10	180.28 179.81	177.78 177.31	0.0056	600	0.016	0.14510	1.22	0.45	0.459 0.457 0.312	0 0	178.04 177.58	No
E01A08-2 1410	218	9.88	181.02 180.57	178.52 178.07	0.0452	300	0.017	0.01820	1.57	0.24	0.206 0.206 0.187	0 0	178.56 178.27	No
E01A08-2 1399	217	22.90	180.75 180.57	178.25 178.07	0.0076	525	0.017	0.09140	1.20	0.38	0.376 0.375 0.283	0 0	178.45 178.27	No
E01A09-01 1441	369	78.96	178.17 178.03	175.67 175.53	0.0017	900	0.016	0.28560	0.94	0.49	0.756 0.753 0.468	0 0	176.11 175.97	No
E01A09-03 1439	354	36.84	178.53 178.17	176.03 175.67	0.0097	675	0.017	0.14930	1.49	0.33	0.830 0.827 0.677	0 0	176.18 176.11	No
E01A09-03 174	353	23.68	178.63 178.17	176.13 175.67	0.0195	900	0.017	0.16900	1.94	0.20	2.533 2.523 2.354	0 0	176.13 176.11	No
E01A09-05 1437	345	105.11	178.75 178.53	176.25 176.03	0.0021	675	0.016	0.14930	0.86	0.49	0.390 0.389 0.239	0 0	176.58 176.35	No
E01A10-02 1116	384	27.44	179.03 178.67	176.53 176.17	0.0128	250	0.014	0.00000	0.20	0.02	0.068 0.067 0.067	0 0	176.53 176.18	No
E01A11-03 1522	14	114.00	177.36 177.25	174.86 174.75	0.0010	,000	0.016	0.30620	0.77	0.51	0.747 0.744 0.438	0 0	175.37 175.26	No
E01A11-04 1520	500	120.46	177.47 177.36	174.97 174.86	0.0009	,000	0.016	0.30620	0.76	0.52	0.727 0.724 0.418	0 0	175.49 175.38	No
E01A12-01 1526	566	110.54	177.15 177.04	174.65 174.54	0.0010	,000	0.016	0.30820	0.78	0.51	0.759 0.756 0.447	0 0	175.16 175.05	No
E01A12-02 1524	539	100.60	177.25 177.15	174.75 174.65	0.0010	,000	0.016	0.30680	0.78	0.51	0.758 0.755 0.448	0 0	175.16 175.16	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
E01S02-08 1508	377	40.00	178.95 178.65	176.45 176.15	0.0076	450	0.017	0.03070	0.90	0.27	0.250 0.249 0.218	0 0	176.57 176.27	No
E01S05-38 758	18	80.87	216.75 216.40	214.25 213.90	0.0043	250	0.013	0.00000	0.06	0.00	0.039 0.039 0.039	0 0	214.25 213.90	No
E01S05-42 742	21	43.60	215.60 215.24	213.10 212.74	0.0083	200	0.017	0.00230	0.48	0.21	0.030 0.030 0.028	0 0	213.13 212.79	No
E01S05-45 754	31	10.82	214.25 214.15	211.75 211.65	0.0093	200	0.017	0.00530	0.65	0.34	0.032 0.032 0.026	0 0	211.82 211.72	No
E01S05A-41 740	22	109.70	216.02 215.60	213.52 213.10	0.0038	200	0.017	0.00230	0.37	0.27	0.020 0.020 0.018	0 0	213.58 213.16	No
E02A01-07 1512	411	123.32	177.89 177.78	175.39 175.28	0.0008	,000	0.016	0.30330	0.73	0.52	0.698 0.696 0.392	0 0	175.91 175.81	No
E02A01-07 1514	428	77.00	177.78 177.68	175.28 175.18	0.0013	,000	0.016	0.30330	0.85	0.46	0.871 0.868 0.564	0 0	175.69 175.69	No
E02A04-1 870	104	74.70	186.25 186.07	183.75 183.57	0.0024	300	0.014	0.04260	0.69	0.83	0.048 0.047 0.005	0 0	184.00 183.82	No
E02A04-17 866	84	58.00	186.70 186.41	184.20 183.91	0.0050	300	0.016	0.03800	0.87	0.61	0.069 0.068 0.030	0 0	184.38 184.09	No
E02A04-4 868	88	24.00	186.41 186.25	183.91 183.75	0.0067	300	0.016	0.03820	0.97	0.57	0.079 0.079 0.041	0 0	184.00 184.00	No
E02A05-3 878	117	137.20	186.07 185.39	183.57 182.89	0.0050	300	0.015	0.04490	0.91	0.67	0.069 0.068 0.023	0 0	183.77 183.09	No
E02A06-3 32	171	97.70	186.27 184.54	183.77 182.04	0.0177	225	0.015	0.00010	0.34	0.05	0.060 0.060 0.060	0 0	183.77 182.11	No
E02A06-37 30	148	83.00	186.56 186.27	184.06 183.77	0.0035	225	0.015	0.00010	0.15	0.05	0.027 0.027 0.026	0 0	184.07 183.78	No
E02A07-10 938	223	91.18	183.98 182.69	181.48 180.19	0.0142	300	0.015	0.00010	0.32	0.04	0.116 0.115 0.115	0 0	181.48 180.28	No
E02A07-32 936	194	92.23	184.50 183.98	182.00 181.48	0.0056	300	0.015	0.00010	0.20	0.04	0.073 0.072 0.072	0 0	182.01 181.50	No

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E02A08-5 104	274	87.50	181.88 180.96	179.38 178.46	0.0105	300	0.015	0.00010	0.27	0.04	0.099 0.099 0.099	0 0	179.38 178.51	No
E02A08-6 102	253	88.00	182.76 181.88	180.26 179.38	0.0101	300	0.015	0.00010	0.27	0.04	0.097 0.097 0.097	0 0	180.28 179.39	No
E02A09-08 1158	372	10.60	179.32 178.65	176.82 176.15	0.0637	300	0.014	0.00010	0.45	0.02	0.245 0.244 0.244	0 0	176.83 176.21	No
E02A09-09 1154	349	99.53	180.97 180.44	178.47 177.94	0.0054	300	0.014	0.00000	0.13	0.02	0.071 0.071 0.071	0 0	178.47 177.95	No
E02A09-112 1156	367	99.37	180.44 179.32	177.94 176.82	0.0112	300	0.015	0.00010	0.28	0.04	0.103 0.102 0.102	0 0	177.95 176.83	No
E02A10-06 1516	460	109.11	177.68 177.58	175.18 175.08	0.0009	,000	0.016	0.30330	0.75	0.51	0.728 0.725 0.422	0 0	175.69 175.59	No
E02A11-11 326	513	92.40	180.67 180.35	178.17 177.85	0.0034	300	0.016	0.00050	0.23	0.08	0.056 0.056 0.056	0 0	178.17 177.88	No
E02A11-15 1012	484	93.10	180.35 178.98	177.85 176.48	0.0147	225	0.016	0.00070	0.47	0.11	0.055 0.054 0.054	0 0	177.86 176.51	No
E02A12-01 370	549	8.59	178.23 177.89	175.73 175.39	0.0396	300	0.016	0.00140	0.80	0.08	0.193 0.192 0.191	0 0	175.73 175.45	No
E02A12-02 368	547	196.29	180.38 178.23	177.88 175.73	0.0110	300	0.016	0.00140	0.48	0.10	0.102 0.101 0.100	0 0	177.91 175.76	No
E02A13-03 1532	602	104.50	176.82 176.70	174.32 174.20	0.0012	,000	0.016	0.32100	0.83	0.50	0.815 0.812 0.491	0 0	174.71 174.71	No
E02A13-04 1530	580	106.37	176.93 176.82	174.43 174.32	0.0010	,000	0.016	0.32100	0.80	0.51	0.773 0.770 0.449	0 0	174.94 174.83	No
E02A14-07 1534	322	132.30	176.70 176.56	174.20 174.06	0.0011	,000	0.016	0.32100	0.81	0.51	0.782 0.779 0.458	0 0	174.71 174.57	No
E02A16-02 1536	629	96.60	176.56 176.45	174.06 173.95	0.0011	,000	0.016	0.32730	0.83	0.51	0.811 0.808 0.481	0 0	174.46 174.46	No
E02A17-01 1540	655	106.99	176.34 176.22	173.84 173.72	0.0011	,000	0.016	0.32730	0.83	0.51	0.805 0.802 0.475	0 0	174.23 174.23	No

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E02A17-06 1538	641	102.66	176.45 176.34	173.95 173.84	0.0011	1000	0.016	0.32730	0.81	0.51	0.787 0.784 0.457	0 0	174.46 174.35	No
E02S06-28 774	37	107.19	215.17 214.84	212.67 212.34	0.0031	250	0.017	0.00310	0.36	0.24	0.033 0.033 0.030	0 0	212.67 212.45	No
E02SA07-24 786	43	65.50	217.38 216.29	214.88 213.79	0.0168	200	0.017	0.00270	0.68	0.21	0.043 0.042 0.040	0 0	214.91 213.83	No
E02SA07-25 784	44	67.00	220.80 217.38	218.30 214.88	0.0509	200	0.016	0.00270	0.98	0.15	0.074 0.074 0.071	0 0	218.30 214.93	No
E03A05-6 908	128	139.00	187.35 186.43	184.85 183.93	0.0066	225	0.016	0.00120	0.40	0.16	0.037 0.036 0.035	0 0	184.86 184.05	No
E03A06-10 56	183	193.90	189.11 187.36	186.61 184.86	0.0090	300	0.016	0.00180	0.48	0.12	0.092 0.092 0.090	0 0	186.62 184.90	No
E03A06-18 798	53	36.85	213.62 213.62	211.12 211.12	0.0002	400	0.015	0.01830	0.21	0.66	0.029 0.029 0.010	0 0	211.39 211.38	No
E03A06-19 796	51	66.38	213.79 213.62	211.29 211.12	0.0025	400	0.017	0.01660	0.52	0.32	0.105 0.104 0.088	0 0	211.39 211.39	No
E03A06-6 40	176	9.99	185.75 185.41	183.25 182.91	0.0340	250	0.016	0.00160	0.73	0.10	0.110 0.110 0.108	0 0	183.27 182.98	No
E03A06-7 36	156	94.00	187.50 186.77	185.00 184.27	0.0078	250	0.016	0.00160	0.44	0.15	0.053 0.052 0.051	0 0	185.04 184.31	No
E03A06-88 38	173	88.59	186.77 185.75	184.27 183.25	0.0115	250	0.016	0.00160	0.48	0.12	0.064 0.064 0.062	0 0	184.30 183.28	No
E03A07-12 1400	230	115.14	185.63 184.67	183.13 182.17	0.0083	300	0.016	0.00060	0.37	0.08	0.089 0.088 0.088	0 0	183.14 182.25	No
E03A07-13 1381	193	98.10	186.21 185.41	183.71 182.91	0.0081	300	0.016	0.00080	0.36	0.08	0.088 0.087 0.086	0 0	183.72 182.98	No
E03A08-26 98	272	92.10	183.85 182.70	181.35 180.20	0.0125	300	0.015	0.00010	0.30	0.04	0.108 0.108 0.108	0 0	181.36 180.21	No
E03A08-9 96	252	76.20	184.77 183.85	182.27 181.35	0.0121	300	0.015	0.00010	0.29	0.04	0.107 0.106 0.106	0 0	182.29 181.36	No

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E03A08-MAIN 100	313	25.93	182.70 182.60	180.20 180.10	0.0039	300	0.015	0.00010	0.17	0.04	0.061 0.060 0.060	0 0	180.21 180.14	No
E03A09-114 172	383	12.14	180.52 179.83	178.02 177.33	0.0568	300	0.015	0.00040	0.63	0.04	0.231 0.230 0.230	0 0	178.03 177.45	No
E03A09-115 170	379	94.51	181.52 180.52	179.02 178.02	0.0106	300	0.016	0.00040	0.35	0.06	0.100 0.100 0.099	0 0	179.04 178.04	No
E03A09-14 168	352	86.20	182.10 181.52	179.60 179.02	0.0067	300	0.016	0.00040	0.27	0.06	0.079 0.079 0.079	0 0	179.62 179.04	No
E03A10-11 1006	418	64.90	180.72 180.68	178.22 178.18	0.0006	300	0.016	0.00010	0.08	0.06	0.023 0.023 0.023	0 0	178.24 178.20	No
E03A10-114 1010	388	22.71	180.30 179.83	177.80 177.33	0.0207	300	0.014	0.00010	0.26	0.02	0.140 0.139 0.139	0 0	177.81 177.45	No
E03A10-12 1004	436	62.70	181.41 180.72	178.91 178.22	0.0110	300	0.015	0.00010	0.28	0.04	0.102 0.101 0.101	0 0	178.91 178.24	No
E03A10-90 1008	399	42.20	180.68 180.30	178.18 177.80	0.0091	300	0.015	0.00010	0.25	0.04	0.092 0.092 0.092	0 0	178.20 177.81	No
E03A11-18 302	455	34.10	181.88 180.46	179.38 177.96	0.0416	300	0.016	0.00140	0.82	0.08	0.198 0.197 0.196	0 0	179.39 178.03	No
E03A11-26 300	497	176.80	183.66 181.88	181.16 179.38	0.0101	300	0.016	0.00140	0.46	0.10	0.097 0.097 0.096	0 0	181.19 179.41	No
E03A12-05 366	535	200.26	184.10 183.30	181.60 180.80	0.0040	300	0.016	0.00130	0.32	0.12	0.061 0.061 0.060	0 0	181.62 180.89	No
E03A13-09 1230	594	105.95	183.46 183.09	180.96 180.59	0.0035	375	0.013	0.00000	0.06	0.00	0.105 0.104 0.104	0 0	180.96 180.65	No
E03A13-12 1228	567	115.15	184.05 183.46	181.55 180.96	0.0051	375	0.013	0.00000	0.06	0.00	0.125 0.125 0.125	0 0	181.55 180.96	No
E03A14-07 1232	606	80.50	183.09 182.90	180.59 180.40	0.0024	375	0.016	0.00460	0.35	0.18	0.085 0.085 0.080	0 0	180.59 180.47	No
E03A15-05 1234	619	60.40	182.90 182.78	180.40 180.28	0.0020	375	0.017	0.00510	0.34	0.20	0.078 0.078 0.073	0 0	180.44 180.36	No

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E03A16-04 1236	329	80.50	182.78 182.64	180.28 180.14	0.0017	375	0.017	0.00570	0.34	0.23	0.073 0.072 0.067	0 0	180.36 180.23	No
E03A17-01 1240	640	68.50	182.33 182.00	179.83 179.50	0.0049	375	0.016	0.00600	0.50	0.18	0.122 0.122 0.116	0 0	179.90 179.57	No
E03A17-01a 1242	649	64.95	182.00 181.54	179.50 179.04	0.0072	375	0.016	0.00600	0.58	0.16	0.149 0.148 0.142	0 0	179.56 179.12	No
E03A17-02 1238	631	66.10	182.64 182.33	180.14 179.83	0.0047	375	0.016	0.00600	0.49	0.18	0.120 0.120 0.114	0 0	180.21 179.90	No
E03A18-01 468	658	54.80	182.08 181.54	179.58 179.04	0.0099	200	0.016	0.00020	0.33	0.09	0.033 0.033 0.032	0 0	179.59 179.12	No
E03A18-03 1740	677	157.77	176.07 175.86	173.57 173.36	0.0013	,000	0.016	0.34700	0.89	0.50	0.877 0.874 0.527	0 0	174.07 173.86	No
E03A18-04 1738	665	123.78	176.22 176.07	173.72 173.57	0.0012	,000	0.016	0.34700	0.87	0.51	0.837 0.834 0.487	0 0	174.23 174.08	No
E03A19-01 1744	709	114.28	175.72 175.58	173.22 173.08	0.0012	,000	0.016	0.34710	0.87	0.51	0.842 0.838 0.491	0 0	173.73 173.59	No
E03A19-02 1742	692	100.58	175.86 175.72	173.36 173.22	0.0014	,000	0.016	0.34700	0.91	0.49	0.897 0.894 0.547	0 0	173.73 173.73	No
E03A20-01 1746	731	163.05	175.58 175.16	173.08 172.66	0.0026	,000	0.016	0.34710	1.13	0.42	1.220 1.216 0.869	0 0	173.38 173.15	No
E03A20-01 1731	733	5.53	177.40 175.16	174.90 172.66	0.4050	450	0.017	0.29790	7.06	0.31	1.820 1.812 1.515	0 0	174.94 173.15	Yes
E03A20-02 1729	747	100.54	177.58 177.40	175.08 174.90	0.0018	450	0.013	0.29790	1.87	1.00	0.121 0.121 -0.177	675 525	175.53 175.35	Yes
E03A21-03 1670	766	119.17	178.06 177.58	175.56 175.08	0.0040	450	0.013	0.27380	1.72	1.00	0.182 0.181 -0.093	600 375	176.45 176.44	Yes
E03A21-06 658	778	102.33	180.97 180.66	178.47 178.16	0.0030	225	0.017	0.00590	0.43	0.38	0.025 0.025 0.019	0 0	178.56 178.25	No
E03A21-07 1668	782	118.69	179.78 178.06	177.28 175.56	0.0145	350	0.013	0.27090	2.82	1.00	0.176 0.175 -0.096	450 300	177.89 176.75	Yes

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E03A21-07 660	767	14.38	180.66 178.06	178.16 175.56	0.1808	225	0.016	0.00590	1.89	0.14	0.192 0.191 0.185	0 0	178.18 176.75	Yes
E03A21-08 656	788	77.76	181.20 180.97	178.70 178.47	0.0030	225	0.017	0.00590	0.44	0.41	0.025 0.024 0.019	0 0	178.79 178.56	No
E03A22-07 1666	792	118.69	180.10 179.78	177.60 177.28	0.0027	350	0.013	0.27090	2.82	1.00	0.076 0.076 -0.195	600 525	179.80 179.78	Yes
E03A22-11 654	794	118.74	181.56 181.20	179.06 178.70	0.0030	225	0.017	0.00590	0.43	0.38	0.025 0.025 0.019	0 0	179.06 178.79	No
E03A23-10 1664	795	93.49	180.42 180.10	177.92 177.60	0.0034	350	0.013	0.27090	2.82	1.00	0.086 0.085 -0.186	600 525	181.02 180.10	Yes
E03A23-12 652	796	103.67	181.85 181.56	179.35 179.06	0.0028	225	0.017	0.00590	0.43	0.41	0.024 0.024 0.018	0 0	179.44 179.15	No
E03A23-13 650	799	15.95	181.98 181.85	179.48 179.35	0.0082	225	0.017	0.00590	0.62	0.30	0.041 0.041 0.035	0 0	179.48 179.44	No
E03A23-24 1662	797	69.04	180.70 180.42	178.20 177.92	0.0041	350	0.013	0.27090	2.82	1.00	0.093 0.093 -0.178	525 450	181.07 180.42	Yes
E03A23-26 1660	800	28.47	180.79 180.70	178.29 178.20	0.0032	350	0.013	0.27080	2.81	1.00	0.082 0.082 -0.189	600 525	181.68 180.70	Yes
E03A24-14 1658	806	111.10	183.89 180.79	181.39 178.29	0.0279	350	0.013	0.27080	2.81	1.00	0.244 0.243 -0.028	375 200	181.84 180.79	Yes
E03A24-15 648	802	65.97	183.12 181.98	180.62 179.48	0.0173	225	0.017	0.00590	0.80	0.24	0.059 0.059 0.053	0 0	180.65 179.55	No
E03A24-16 646	807	64.24	184.51 183.12	182.01 180.62	0.0216	225	0.017	0.00590	0.90	0.24	0.066 0.066 0.060	0 0	182.07 180.68	No
E03A24-17 644	281	75.88	185.95 184.51	183.45 182.01	0.0190	225	0.017	0.00590	0.84	0.24	0.062 0.062 0.056	0 0	183.51 182.07	No
E03A24-18 1656	283	98.70	185.23 183.89	182.73 181.39	0.0136	350	0.013	0.27080	2.81	1.00	0.171 0.170 -0.101	450 300	183.90 183.89	Yes
E03A25-19 1654	0	54.86	185.98 185.23	183.48 182.73	0.0137	350	0.013	0.27080	2.81	1.00	0.171 0.171 -0.100	450 300	185.75 185.22	Yes

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E03A25-21 1652	291	108.83	186.77 185.98	184.27 183.48	0.0072	350	0.013	0.27080	2.81	1.00	0.124 0.124 -0.147	525 375	189.52 185.78	Yes
E03A27-22 1650	298	110.43	187.09 186.77	184.59 184.27	0.0029	350	0.013	0.27080	2.81	1.00	0.079 0.078 -0.192	600 525	186.78 186.77	Yes
E03A28-23 1648	299	6.97	186.83 187.09	184.33 184.59	-0.0370	900	0.000	0.25770	0.41	1.00	0.000 0.000 0.000	0 0	187.09 187.09	Yes
E03aA10-22 238	431	72.60	182.57 182.04	180.07 179.54	0.0073	300	0.016	0.00060	0.34	0.08	0.083 0.083 0.082	0 0	180.08 179.58	No
E03SA08-30 836	66	92.91	233.97 225.97	231.47 223.47	0.0861	200	0.016	0.00090	0.96	0.09	0.097 0.096 0.095	0 0	231.49 223.51	No
E04A04-15 840	81	124.01	186.44 185.48	183.94 182.98	0.0077	200	0.016	0.00120	0.42	0.18	0.029 0.029 0.028	0 0	183.98 183.02	No
E04A05-7 22	126	180.40	189.44 187.50	186.94 185.00	0.0107	225	0.016	0.00100	0.46	0.14	0.047 0.047 0.046	0 0	186.94 185.07	No
E04A07-15 942	237	105.00	187.65 186.36	185.15 183.86	0.0123	250	0.016	0.00160	0.50	0.12	0.066 0.066 0.064	0 0	185.17 183.94	No
E04A07-55 940	201	88.00	188.15 187.65	185.65 185.15	0.0057	250	0.016	0.00160	0.37	0.15	0.045 0.045 0.043	0 0	185.69 185.19	No
E04A08-27 944	276	130.00	185.92 183.85	183.42 181.35	0.0160	300	0.016	0.00160	0.58	0.10	0.123 0.122 0.120	0 0	183.45 181.38	No
E04A08-MAIN 946	337	46.05	183.85 183.10	181.35 180.60	0.0163	300	0.016	0.00160	0.58	0.10	0.124 0.123 0.122	0 0	181.37 180.65	No
E04A09-17 196	390	88.40	182.51 180.90	180.01 178.40	0.0182	300	0.015	0.00010	0.36	0.04	0.131 0.130 0.130	0 0	180.01 178.53	No
E04A09-18 194	360	91.40	183.14 182.51	180.64 180.01	0.0069	300	0.015	0.00010	0.22	0.04	0.081 0.080 0.080	0 0	180.65 180.02	No
E04A11-25 272	458	105.80	185.76 183.55	183.26 181.05	0.0209	225	0.016	0.00240	0.71	0.16	0.065 0.065 0.062	0 0	183.30 181.09	No
E04A11-29 270	478	78.50	187.37 185.76	184.87 183.26	0.0205	225	0.016	0.00240	0.70	0.16	0.064 0.064 0.062	0 0	184.91 183.30	No

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E04A12-07 360	520	13.50	187.71 187.55	185.21 185.05	0.0118	225	0.016	0.00170	0.53	0.16	0.049 0.049 0.047	0 0	185.25 185.09	No
E04A12-10 358	518	178.90	188.41 187.71	185.91 185.21	0.0039	225	0.017	0.00170	0.33	0.19	0.028 0.028 0.026	0 0	185.96 185.25	No
E04A13-07 1216	525	11.01	187.74 187.36	185.24 184.86	0.0347	525	0.016	0.01960	1.42	0.13	0.803 0.800 0.781	0 0	185.31 184.93	No
E04A13-08 1214	553	124.44	189.48 187.74	186.98 185.24	0.0140	525	0.016	0.01960	0.97	0.15	0.510 0.508 0.488	0 0	187.06 185.32	No
E04A13-15 1212	574	60.67	190.27 189.48	187.77 186.98	0.0130	450	0.017	0.01770	0.96	0.19	0.326 0.325 0.307	0 0	187.86 187.07	No
E04A14-16 1210	588	72.27	191.23 190.27	188.73 187.77	0.0133	450	0.017	0.01770	0.97	0.19	0.330 0.328 0.311	0 0	188.78 187.86	No
E04A14-17 1208	589	15.00	193.17 191.23	190.67 188.73	0.1293	450	0.016	0.01770	2.24	0.11	1.028 1.024 1.007	0 0	190.70 188.82	No
E04A14-18 1206	591	18.04	196.72 193.17	194.22 190.67	0.1968	450	0.016	0.01770	2.54	0.09	1.269 1.264 1.246	0 0	194.22 190.72	No
E04A16-05 430	325	86.00	189.93 189.43	187.43 186.93	0.0057	250	0.016	0.00090	0.34	0.12	0.045 0.045 0.044	0 0	187.46 186.96	No
E04A17-03 1070	645	52.86	188.59 188.09	186.09 185.59	0.0095	300	0.016	0.03000	1.01	0.45	0.095 0.094 0.064	0 0	186.23 185.72	No
E04A17-04 434	637	67.40	188.99 188.59	186.49 186.09	0.0059	250	0.016	0.00090	0.35	0.12	0.046 0.046 0.045	0 0	186.49 186.23	No
E04A17-52 432	626	77.10	189.43 188.99	186.93 186.49	0.0058	250	0.016	0.00090	0.34	0.12	0.045 0.045 0.044	0 0	186.95 186.52	No
E04S03-15 820	58	24.30	185.69 185.48	183.19 182.98	0.0089	200	0.016	0.00030	0.31	0.09	0.031 0.031 0.031	0 0	183.19 183.01	No
E04S04-14 842	59	65.00	185.48 184.20	182.98 181.70	0.0197	200	0.016	0.00160	0.61	0.15	0.046 0.046 0.044	0 0	183.01 181.73	No
E04S05-09 1170	67	79.76	213.00 212.73	210.50 210.23	0.0034	400	0.017	0.01920	0.60	0.32	0.121 0.120 0.101	0 0	210.63 210.36	No

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E04S05-09 832	64	62.23	213.17 212.73	210.67 210.23	0.0071	225	0.016	0.00040	0.28	0.08	0.038 0.038 0.037	0 0	210.67 210.35	No
E04S05-10 830	71	54.70	213.77 213.17	211.27 210.67	0.0109	225	0.016	0.00040	0.35	0.08	0.047 0.047 0.046	0 0	211.29 210.69	No
E04S05-14 822	60	5.50	184.20 184.20	181.70 181.70	0.0000	100	0.000	0.00010	0.06	1.00	0.000 0.000 0.000	0 0	181.71 181.71	No
E04S06-12 1168	69	9.10	215.96 213.00	213.46 210.50	0.3253	200	0.016	0.00100	1.46	0.06	0.188 0.187 0.186	0 0	213.46 210.63	No
E04S06-13 1166	72	91.40	217.11 215.96	214.61 213.46	0.0126	200	0.016	0.00080	0.44	0.12	0.037 0.037 0.036	0 0	214.63 213.48	No
E04S07-16 890	75	96.00	217.42 217.11	214.92 214.61	0.0032	225	0.016	0.00780	0.48	0.43	0.026 0.026 0.018	0 0	214.92 214.72	No
E04S07A-19 862	78	62.15	220.01 217.42	217.51 214.92	0.0416	225	0.016	0.00400	1.00	0.16	0.092 0.092 0.088	0 0	217.53 215.02	No
E04S08-27 860	79	35.11	223.27 220.01	220.77 217.51	0.0928	200	0.016	0.00400	1.33	0.15	0.100 0.100 0.096	0 0	220.77 217.55	No
E04S08-28 858	82	93.60	236.09 223.27	233.59 220.77	0.1370	200	0.016	0.00120	1.21	0.09	0.122 0.121 0.120	0 0	233.59 220.80	No
E04SA06-6 12	86	57.62	213.75 212.29	211.25 209.79	0.0253	300	0.016	0.00110	0.64	0.08	0.154 0.154 0.153	0 0	211.25 209.83	No
E04SA06-7 10	87	48.78	215.86 213.75	213.36 211.25	0.0433	300	0.016	0.00110	0.70	0.06	0.202 0.201 0.200	0 0	213.36 211.27	No
E04SB01-17 864	83	77.10	186.67 186.41	184.17 183.91	0.0034	225	0.016	0.00030	0.19	0.08	0.026 0.026 0.026	0 0	184.17 184.08	No
E05A01-43 744	24	99.40	215.24 214.74	212.74 212.24	0.0050	200	0.017	0.00230	0.40	0.24	0.023 0.023 0.021	0 0	212.79 212.29	No
E05A01-44 746	30	89.00	214.74 214.25	212.24 211.75	0.0056	200	0.017	0.00230	0.42	0.24	0.025 0.024 0.022	0 0	212.29 211.82	No
E05A01-44 752	32	89.00	214.64 214.25	212.14 211.75	0.0044	200	0.017	0.00300	0.42	0.30	0.022 0.022 0.019	0 0	212.14 211.82	No

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SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
										Qexcess				
E05A01-46 750	28	53.60	214.92 214.64	212.42 212.14	0.0052	200	0.017	0.00300	0.46	0.30	0.024 0.024 0.021	0 0	212.45 212.20	No
E05A01-47 748	25	66.40	215.23 214.92	212.73 212.42	0.0047	200	0.017	0.00300	0.44	0.30	0.023 0.023 0.020	0 0	212.79 212.48	No
E05A04-14 828	65	43.92	185.54 184.20	183.04 181.70	0.0305	200	0.016	0.00010	0.45	0.06	0.058 0.057 0.057	0 0	183.05 181.71	No
E05A04-9 846	101	114.84	190.26 189.71	187.76 187.21	0.0048	225	0.016	0.00120	0.34	0.16	0.031 0.031 0.030	0 0	187.79 187.25	No
E05A05-10 24	129	173.90	192.99 190.16	190.49 187.66	0.0163	225	0.016	0.00140	0.57	0.14	0.057 0.057 0.056	0 0	190.52 187.69	No
E05A07-18 1262	239	112.00	191.52 189.56	189.02 187.06	0.0175	300	0.016	0.00520	0.78	0.16	0.128 0.128 0.122	0 0	189.05 187.12	No
E05A07-20 1152	205	8.20	191.75 191.52	189.25 189.02	0.0287	300	0.016	0.00050	0.57	0.06	0.164 0.164 0.163	0 0	189.25 189.06	No
E05A07-21 1150	202	26.70	191.87 191.75	189.37 189.25	0.0046	300	0.016	0.00050	0.27	0.08	0.066 0.066 0.065	0 0	189.40 189.27	No
E05A08-14 146	342	131.47	187.37 185.26	184.87 182.76	0.0161	300	0.016	0.00250	0.65	0.12	0.123 0.122 0.120	0 0	184.89 182.80	No
E05A08-15 130	257	60.00	189.01 187.37	186.51 184.87	0.0273	300	0.016	0.00140	0.66	0.08	0.160 0.160 0.158	0 0	186.51 184.91	No
E05A09-14 1417	351	43.13	185.61 185.26	183.11 182.76	0.0082	300	0.016	0.00020	0.30	0.06	0.088 0.088 0.087	0 0	183.11 182.80	No
E05A09-22 1446	397	76.37	184.13 183.41	181.63 180.91	0.0095	300	0.016	0.00250	0.54	0.14	0.095 0.094 0.092	0 0	181.65 181.02	No
E05A09-23 1444	373	95.32	185.08 184.13	182.58 181.63	0.0099	300	0.016	0.00080	0.40	0.08	0.097 0.096 0.095	0 0	182.58 181.67	No
E05A16-10 414	335	105.80	211.78 211.44	209.28 208.94	0.0032	225	0.017	0.00150	0.30	0.19	0.025 0.025 0.024	0 0	209.28 209.07	No
E05A16-11 412	623	71.00	212.01 211.78	209.51 209.28	0.0033	225	0.017	0.00150	0.31	0.19	0.026 0.026 0.024	0 0	209.54 209.32	No

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E05A16-12 410	604	33.50	212.15 212.01	209.65 209.51	0.0041	200	0.017	0.00150	0.33	0.21	0.021 0.021 0.020	0 0	209.69 209.56	No
E05A17-09a 1062	633	41.20	211.44 211.08	208.94 208.58	0.0088	300	0.016	0.02510	0.95	0.43	0.091 0.091 0.065	0 0	209.07 208.71	No
E05A17-09b 530	644	82.30	211.81 211.08	209.31 208.58	0.0089	200	0.017	0.00550	0.63	0.34	0.031 0.031 0.025	0 0	209.37 208.66	No
E05A17-15 528	659	91.40	212.29 211.81	209.79 209.31	0.0053	200	0.017	0.00550	0.54	0.40	0.024 0.024 0.018	0 0	209.87 209.39	No
E05A18-16 526	667	96.90	212.48 212.29	209.98 209.79	0.0019	200	0.017	0.00290	0.31	0.37	0.014 0.014 0.012	0 0	210.02 209.87	No
E05A18-17 524	675	121.30	212.95 212.48	210.45 209.98	0.0039	200	0.017	0.00250	0.38	0.27	0.021 0.020 0.018	0 0	210.45 210.05	No
E05A19-18 522	687	73.20	213.19 212.95	210.69 210.45	0.0033	200	0.017	0.00230	0.34	0.27	0.019 0.019 0.016	0 0	210.72 210.51	No
E05A19-20 520	703	86.90	213.66 213.19	211.16 210.69	0.0054	200	0.017	0.00230	0.42	0.24	0.024 0.024 0.022	0 0	211.16 210.75	No
E05A20-01 510	737	72.90	212.96 210.50	210.46 208.00	0.0339	200	0.017	0.00640	1.11	0.27	0.061 0.060 0.054	0 0	210.46 208.11	No
E05A20-02 508	727	104.90	213.45 212.96	210.95 210.46	0.0046	200	0.016	0.00640	0.52	0.43	0.022 0.022 0.016	0 0	211.03 210.55	No
E05A20-03 506	715	40.20	213.59 213.45	211.09 210.95	0.0036	200	0.017	0.00500	0.45	0.40	0.020 0.020 0.015	0 0	211.14 211.03	No
E05AA08-22 154	340	70.90	193.71 191.84	191.21 189.34	0.0264	225	0.016	0.00110	0.64	0.11	0.073 0.073 0.072	0 0	191.22 189.36	No
E05AA08-23 156	347	29.08	191.84 191.16	189.34 188.66	0.0234	225	0.016	0.00110	0.60	0.11	0.069 0.069 0.068	0 0	189.36 188.68	No
E05AOS-23 1002	381	89.14	188.12 184.13	185.62 181.63	0.0448	300	0.016	0.00170	0.85	0.08	0.205 0.204 0.203	0 0	185.62 181.67	No
E05S02-4 856	93	83.80	186.71 186.25	184.21 183.75	0.0054	225	0.017	0.00580	0.53	0.33	0.033 0.033 0.027	0 0	184.25 184.00	Yes

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E05S03-18 850	96	81.49	187.50 187.23	185.00 184.73	0.0033	225	0.017	0.00350	0.39	0.30	0.026 0.026 0.022	0 0	185.07 184.80	No
E05S03-5 854	97	70.43	186.71 186.71	184.21 184.21	0.0000	225	0.000	0.00580	0.15	1.00	0.000 0.000 0.000	0 0	184.28 184.28	No
E05S04-6 852	98	69.20	187.23 186.71	184.73 184.21	0.0076	225	0.017	0.00580	0.59	0.30	0.039 0.039 0.033	0 0	184.80 184.28	No
E05S04-7 848	100	71.29	189.71 187.50	187.21 185.00	0.0310	300	0.016	0.00260	0.80	0.10	0.171 0.170 0.167	0 0	187.23 185.07	No
E05S05-1 20	109	51.80	213.33 212.00	210.83 209.50	0.0257	200	0.016	0.00080	0.62	0.12	0.053 0.053 0.052	0 0	210.83 209.64	No
E05S05-10 26	102	12.20	190.16 189.71	187.66 187.21	0.0373	225	0.016	0.00140	0.76	0.11	0.087 0.087 0.085	0 0	187.69 187.24	No
E05S05-2 18	111	19.80	213.39 213.33	210.89 210.83	0.0031	200	0.016	0.00080	0.27	0.18	0.018 0.018 0.017	0 0	210.93 210.87	No
E05S05-3 16	113	53.30	213.73 213.39	211.23 210.89	0.0063	200	0.016	0.00080	0.34	0.15	0.026 0.026 0.025	0 0	211.23 210.93	No
E05S07-6 1348	122	37.50	217.54 216.21	215.04 213.71	0.0354	225	0.016	0.00260	0.84	0.14	0.085 0.084 0.082	0 0	215.07 213.78	No
E05S07-7 1346	124	33.14	219.83 217.54	217.33 215.04	0.0693	225	0.016	0.00260	1.17	0.14	0.119 0.118 0.116	0 0	217.35 215.07	No
E05S07-8 1339	125	60.82	220.69 219.83	218.19 217.33	0.0141	225	0.016	0.00130	0.53	0.14	0.054 0.053 0.052	0 0	218.22 217.36	No
E05S07-8 1344	136	53.21	222.93 219.83	220.43 217.33	0.0582	225	0.016	0.00130	0.94	0.11	0.109 0.108 0.107	0 0	220.43 217.36	No
E05S08-10 1340	140	68.69	227.72 226.19	225.22 223.69	0.0223	225	0.016	0.00130	0.58	0.11	0.067 0.067 0.066	0 0	225.25 223.72	No
E05S08-12 1335	130	55.79	227.72 226.08	225.22 223.58	0.0295	225	0.016	0.00130	0.67	0.11	0.077 0.077 0.076	0 0	225.25 223.60	No
E05S08-13 1337	114	110.60	226.08 220.69	223.58 218.19	0.0487	225	0.016	0.00130	0.86	0.11	0.099 0.099 0.098	0 0	223.58 218.22	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E05S08-9 1342	138	115.30	226.19 222.93	223.69 220.43	0.0283	225	0.016	0.00130	0.66	0.11	0.076 0.075 0.074	0 0	223.72 220.46	No
E05SA01-03 900	116	76.00	186.33 185.39	183.83 182.89	0.0124	225	0.016	0.00080	0.44	0.11	0.050 0.050 0.049	0 0	183.85 183.00	No
E05SA01-4 898	112	70.50	186.72 186.33	184.22 183.83	0.0056	225	0.016	0.00080	0.33	0.14	0.034 0.034 0.033	0 0	184.25 183.86	No
E06A01-29 8	36	36.50	215.42 215.17	212.92 212.67	0.0069	250	0.016	0.00140	0.41	0.15	0.049 0.049 0.048	0 0	212.92 212.73	No
E06A01-32 2	27	30.40	216.01 215.86	213.51 213.36	0.0050	250	0.016	0.00140	0.35	0.15	0.042 0.042 0.041	0 0	213.55 213.40	No
E06A01-52 6	35	50.30	215.62 215.42	213.12 212.92	0.0039	250	0.016	0.00140	0.34	0.17	0.037 0.037 0.036	0 0	213.16 212.96	No
E06A01-53 4	33	49.70	215.86 215.62	213.36 213.12	0.0049	250	0.016	0.00140	0.35	0.15	0.042 0.042 0.040	0 0	213.36 213.16	No
E06A02-29 772	39	65.50	215.39 215.17	212.89 212.67	0.0034	250	0.016	0.00150	0.32	0.17	0.035 0.035 0.033	0 0	212.94 212.73	No
E06A02-30 770	40	94.50	215.71 215.39	213.21 212.89	0.0033	250	0.016	0.00150	0.31	0.17	0.034 0.034 0.033	0 0	213.25 212.94	No
E06A03-12 804	68	45.52	213.16 213.00	210.66 210.50	0.0036	400	0.017	0.01830	0.61	0.30	0.126 0.125 0.107	0 0	210.66 210.63	No
E06A03-13 826	70	43.60	217.30 215.96	214.80 213.46	0.0307	225	0.015	0.00020	0.45	0.05	0.079 0.079 0.078	0 0	214.80 213.47	No
E06A03-14 824	62	26.09	217.38 217.30	214.88 214.80	0.0034	225	0.016	0.00020	0.19	0.08	0.026 0.026 0.026	0 0	214.90 214.81	No
E06A03-15 802	61	66.39	213.37 213.16	210.87 210.66	0.0031	400	0.017	0.01830	0.58	0.32	0.116 0.115 0.097	0 0	210.99 210.79	No
E06A03-17 800	54	66.20	213.62 213.37	211.12 210.87	0.0038	400	0.017	0.01830	0.62	0.30	0.128 0.128 0.110	0 0	211.12 210.99	No
E06A04-1 1176	110	94.88	212.16 212.00	209.66 209.50	0.0017	400	0.017	0.02370	0.49	0.41	0.086 0.086 0.062	0 0	209.83 209.67	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge	
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
										Qexcess				
E06A04-5 1174	91	61.58	212.42 212.16	209.92 209.66	0.0042	400	0.017	0.02290	0.68	0.32	0.136 0.135 0.112	0 0	210.00 209.83	No
E06A04-8 1172	85	82.30	212.73 212.42	210.23 209.92	0.0037	400	0.017	0.01950	0.62	0.30	0.128 0.127 0.108	0 0	210.30 210.05	No
E06A05-13 1362	142	70.10	205.04 199.55	202.54 197.05	0.0783	450	0.016	0.03860	2.26	0.18	0.800 0.797 0.758	0 0	202.62 197.13	No
E06A05-16 1180	144	87.92	211.68 210.37	209.18 207.87	0.0149	400	0.017	0.02430	1.09	0.24	0.255 0.254 0.229	0 0	209.28 207.97	No
E06A05-49 1178	123	91.40	212.00 211.68	209.50 209.18	0.0035	400	0.017	0.02430	0.65	0.35	0.124 0.123 0.099	0 0	209.64 209.32	No
E06A09-25 182	413	47.90	213.27 211.13	210.77 208.63	0.0447	300	0.016	0.00190	0.85	0.08	0.205 0.204 0.202	0 0	210.79 208.70	No
E06A09-26 180	394	60.70	213.83 213.27	211.33 210.77	0.0092	225	0.016	0.00190	0.47	0.16	0.043 0.043 0.041	0 0	211.37 210.81	No
E06A09-27 178	380	100.30	214.34 213.83	211.84 211.33	0.0050	225	0.017	0.00190	0.38	0.19	0.032 0.032 0.030	0 0	211.88 211.37	No
E06A15-23 378	568	13.70	214.56 214.34	212.06 211.84	0.0161	200	0.016	0.00130	0.55	0.15	0.042 0.042 0.040	0 0	212.08 211.87	No
E06A15-65 380	560	76.20	214.34 212.99	211.84 210.49	0.0177	200	0.016	0.00130	0.58	0.15	0.044 0.044 0.042	0 0	211.84 210.56	No
E06A15-66 376	581	53.30	214.72 214.56	212.22 212.06	0.0030	200	0.017	0.00130	0.29	0.21	0.018 0.018 0.017	0 0	212.26 212.10	No
E06A16-27 388	327	104.17	214.22 213.72	211.72 211.22	0.0048	225	0.017	0.00300	0.42	0.24	0.031 0.031 0.028	0 0	211.78 211.32	No
E06A16-29 386	613	112.84	214.54 214.22	212.04 211.72	0.0028	225	0.017	0.00300	0.36	0.30	0.024 0.024 0.021	0 0	212.11 211.79	No
E06A17-27 464	634	97.11	214.18 213.72	211.68 211.22	0.0048	225	0.017	0.00240	0.40	0.22	0.031 0.031 0.029	0 0	211.68 211.32	No
E06A17-28 462	651	98.24	214.44 214.18	211.94 211.68	0.0026	225	0.017	0.00240	0.33	0.27	0.023 0.023 0.021	0 0	212.00 211.75	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge	
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
										Qexcess				
E06A18-23 480	664	95.70	213.46 213.18	210.96 210.68	0.0029	225	0.017	0.00170	0.31	0.22	0.024 0.024 0.023	0 0	211.00 210.73	No
E06A18-25 478	671	100.60	214.09 213.46	211.59 210.96	0.0063	225	0.017	0.00170	0.42	0.19	0.036 0.036 0.034	0 0	211.59 211.00	No
E06A19-05 488	704	110.00	214.62 214.23	212.12 211.73	0.0036	200	0.017	0.00210	0.36	0.27	0.020 0.020 0.018	0 0	212.15 211.80	No
E06A19-06 486	685	101.70	214.87 214.62	212.37 212.12	0.0024	200	0.017	0.00210	0.31	0.30	0.016 0.016 0.014	0 0	212.43 212.18	No
E06A21-13 598	752	78.00	211.01 210.75	208.51 208.25	0.0033	375	0.016	0.00340	0.37	0.15	0.101 0.101 0.097	0 0	208.54 208.42	No
E06A21-47 596	759	51.00	211.13 211.01	208.63 208.51	0.0024	375	0.016	0.00250	0.30	0.13	0.085 0.085 0.083	0 0	208.63 208.57	No
E06A21-48 594	763	63.50	211.29 211.13	208.79 208.63	0.0025	375	0.016	0.00150	0.28	0.11	0.088 0.088 0.086	0 0	208.81 208.68	No
E06A21-49 592	769	54.00	211.41 211.29	208.91 208.79	0.0022	375	0.016	0.00100	0.24	0.10	0.083 0.083 0.082	0 0	208.91 208.83	No
E06S01-1 1374	119	41.23	185.39 184.09	182.89 181.59	0.0316	750	0.016	0.08000	1.88	0.15	1.983 1.976 1.896	0 0	182.89 181.80	No
E06S01-1 1376	118	19.80	184.09 184.00	181.59 181.50	0.0043	525	0.016	0.08000	0.95	0.42	0.283 0.282 0.202	0 0	181.80 181.72	No
E06S02-2 1372	127	149.10	186.43 185.39	183.93 182.89	0.0070	750	0.016	0.04090	0.91	0.16	0.935 0.931 0.891	0 0	184.05 183.01	No
E06S03-6 1370	133	79.89	188.13 186.43	185.63 183.93	0.0213	750	0.016	0.03950	1.37	0.12	1.629 1.622 1.583	0 0	185.63 184.05	No
E06S03-9 1368	135	81.40	189.72 188.13	187.22 185.63	0.0196	600	0.016	0.03950	1.36	0.17	0.861 0.858 0.818	0 0	187.33 185.74	No
E06S04-11 1366	137	67.40	194.26 189.72	191.76 187.22	0.0673	450	0.016	0.03950	2.10	0.18	0.742 0.739 0.699	0 0	191.81 187.33	No
E06S05-12 1364	139	67.40	199.55 194.26	197.05 191.76	0.0786	450	0.016	0.03860	2.27	0.18	0.802 0.798 0.760	0 0	197.13 191.84	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E06S06-15 1360	143	72.20	210.37 205.04	207.87 202.54	0.0739	450	0.016	0.03860	2.20	0.18	0.777 0.774 0.736	0 0	207.92 202.62	No
E06S07-1 46	150	94.40	222.72 215.35	220.22 212.85	0.0781	225	0.016	0.00080	0.92	0.08	0.126 0.125 0.125	0 0	220.24 212.96	No
E06S07-1 1354	152	19.20	215.35 215.19	212.85 212.69	0.0083	225	0.016	0.01480	0.82	0.49	0.041 0.041 0.026	0 0	212.96 212.80	No
E06S07-1 934	153	43.30	217.81 215.19	215.31 212.69	0.0605	300	0.016	0.00280	1.12	0.10	0.239 0.238 0.235	0 0	215.33 212.80	No
E06S07-16 1358	145	16.20	213.96 210.37	211.46 207.87	0.2214	450	0.016	0.01830	2.70	0.09	1.345 1.340 1.322	0 0	211.46 207.95	No
E06S07-16 34	149	119.51	214.71 210.37	212.21 207.87	0.0362	375	0.015	0.00080	0.65	0.05	0.335 0.333 0.333	0 0	212.21 207.95	No
E06S07-17 1356	151	172.12	215.19 213.96	212.69 211.46	0.0071	300	0.017	0.01720	0.78	0.37	0.082 0.082 0.064	0 0	212.80 211.57	No
E06S07-18 930	157	6.45	221.20 220.96	218.70 218.46	0.0374	225	0.016	0.00250	0.86	0.14	0.087 0.087 0.084	0 0	218.73 218.49	No
E06S07-2 932	155	45.70	220.96 217.81	218.46 215.31	0.0690	300	0.016	0.00280	1.05	0.08	0.255 0.254 0.251	0 0	218.48 215.34	No
E06S07-2 42	159	70.80	226.83 225.31	224.33 222.81	0.0215	225	0.016	0.00080	0.57	0.11	0.066 0.066 0.065	0 0	224.36 222.83	No
E06S07-3 928	160	163.40	228.09 221.20	225.59 218.70	0.0422	225	0.016	0.00250	0.91	0.14	0.093 0.092 0.090	0 0	225.62 218.73	No
E06S07-36 44	154	86.70	225.31 222.72	222.81 220.22	0.0299	225	0.016	0.00080	0.57	0.08	0.078 0.078 0.077	0 0	222.83 220.24	No
E06S08-4 926	161	57.26	231.17 228.09	228.67 225.59	0.0537	225	0.016	0.00250	1.03	0.14	0.104 0.104 0.101	0 0	228.69 225.62	No
E06S08-5 924	162	111.30	234.76 231.17	232.26 228.67	0.0323	225	0.016	0.00250	0.80	0.14	0.081 0.081 0.078	0 0	232.29 228.70	No
E06S09-13 914	178	90.00	246.25 245.02	243.75 242.52	0.0137	300	0.014	0.00010	0.21	0.02	0.113 0.113 0.113	0 0	243.75 242.54	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E06S09-13 60	179	13.01	245.25 245.02	242.75 242.52	0.0181	300	0.014	0.00010	0.24	0.02	0.131 0.130 0.130	0 0	242.76 242.54	No
E06S09-14 912	158	107.00	250.38 246.25	247.88 243.75	0.0386	300	0.014	0.00010	0.35	0.02	0.191 0.190 0.190	0 0	247.89 243.75	No
E06S09-15 910	134	88.00	255.13 250.38	252.63 247.88	0.0540	300	0.014	0.00010	0.42	0.02	0.225 0.224 0.224	0 0	252.64 247.89	No
E06S09-19 58	184	128.68	245.86 245.25	243.36 242.75	0.0047	300	0.015	0.00010	0.18	0.04	0.067 0.066 0.066	0 0	243.37 242.76	No
E06S09-6 922	163	13.70	235.46 234.76	232.96 232.26	0.0508	200	0.016	0.00150	0.88	0.12	0.074 0.074 0.072	0 0	232.98 232.29	No
E06S09-7 920	167	38.60	237.46 235.46	234.96 232.96	0.0518	200	0.016	0.00110	0.89	0.12	0.075 0.075 0.073	0 0	234.98 232.98	No
E06S09-8 918	168	12.30	238.41 237.46	235.91 234.96	0.0769	200	0.016	0.00110	0.91	0.09	0.091 0.091 0.090	0 0	235.91 234.98	No
E06S09-9 916	177	202.39	245.02 238.41	242.52 235.91	0.0327	300	0.016	0.00110	0.72	0.08	0.175 0.175 0.173	0 0	242.54 235.93	No
E06SA06- 48	174	128.21	215.71 214.64	213.21 212.14	0.0083	200	0.016	0.00130	0.44	0.18	0.030 0.030 0.029	0 0	213.25 212.18	No
E06SA06-17 50	166	107.60	214.64 213.96	212.14 211.46	0.0063	200	0.016	0.00130	0.38	0.18	0.026 0.026 0.025	0 0	212.16 211.50	No
E06SA07-20 64	199	106.70	223.80 223.51	221.30 221.01	0.0028	225	0.016	0.00080	0.26	0.16	0.024 0.024 0.023	0 0	221.32 221.06	No
E06SA07-21 62	185	80.30	226.08 223.80	223.58 221.30	0.0284	225	0.016	0.00080	0.56	0.08	0.076 0.076 0.075	0 0	223.58 221.34	No
E07A01-28 768	38	76.12	215.09 214.84	212.59 212.34	0.0034	350	0.017	0.00640	0.46	0.23	0.085 0.085 0.078	0 0	212.59 212.45	No
E07A01-34 766	34	91.67	215.37 215.09	212.87 212.59	0.0030	350	0.017	0.00640	0.43	0.23	0.080 0.080 0.073	0 0	212.91 212.67	No
E07A01-35 764	26	80.70	215.61 215.37	213.11 212.87	0.0030	350	0.017	0.00640	0.43	0.23	0.080 0.080 0.073	0 0	213.19 212.95	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E07A01-36 762	23	61.60	216.06 215.61	213.56 213.11	0.0073	250	0.017	0.00640	0.62	0.29	0.051 0.051 0.044	0 0	213.60 213.19	No
E07A01-37 738	20	42.60	216.29 216.06	213.79 213.56	0.0055	250	0.016	0.00020	0.25	0.07	0.044 0.044 0.044	0 0	213.79 213.63	No
E07A02-20 792	48	75.80	214.23 213.96	211.73 211.46	0.0035	400	0.017	0.01660	0.58	0.29	0.123 0.122 0.106	0 0	211.84 211.58	No
E07A02-21 778	45	75.00	214.52 214.23	212.02 211.73	0.0039	400	0.017	0.01390	0.57	0.26	0.130 0.129 0.115	0 0	212.08 211.84	No
E07A02-22 790	46	6.76	215.90 214.23	213.40 211.73	0.2480	200	0.016	0.00310	1.94	0.12	0.164 0.163 0.160	0 0	213.42 211.84	No
E07A02-22 776	41	107.20	214.84 214.52	212.34 212.02	0.0030	400	0.017	0.01390	0.52	0.27	0.115 0.114 0.100	0 0	212.45 212.13	No
E07A02-23 788	47	30.50	216.29 215.90	213.79 213.40	0.0126	200	0.017	0.00290	0.59	0.21	0.037 0.037 0.034	0 0	213.83 213.45	No
E07A02-24 780	42	25.00	216.44 216.29	213.94 213.79	0.0060	200	0.016	0.00010	0.20	0.06	0.026 0.025 0.025	0 0	213.94 213.83	No
E07A02-60 794	50	26.05	213.96 213.79	211.46 211.29	0.0067	400	0.017	0.01660	0.73	0.24	0.171 0.170 0.153	0 0	211.52 211.42	No
E07A04-14 896	121	103.40	216.47 216.21	213.97 213.71	0.0026	225	0.016	0.01080	0.50	0.57	0.023 0.023 0.012	0 0	214.10 213.84	No
E07A04-14 894	106	92.00	216.80 216.47	214.30 213.97	0.0036	225	0.016	0.01010	0.53	0.49	0.027 0.027 0.017	0 0	214.30 214.10	No
E07A04-15 892	89	93.81	217.11 216.80	214.61 214.30	0.0033	225	0.016	0.00920	0.52	0.49	0.026 0.026 0.017	0 0	214.67 214.41	No
E07A05-1 1352	146	74.10	215.35 215.35	212.85 212.85	0.0000	225	0.000	0.01390	0.35	1.00	0.000 0.000 0.000	0 0	212.96 212.96	No
E07A05-4 28	131	19.63	216.63 215.35	214.13 212.85	0.0653	225	0.016	0.00060	0.84	0.08	0.115 0.115 0.114	0 0	214.14 213.01	No
E07A05-4 1350	132	27.67	216.21 215.35	213.71 212.85	0.0310	225	0.017	0.01310	1.26	0.33	0.079 0.079 0.066	0 0	213.71 213.01	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E07A06-17	105.50	217.44	214.94	0.0095	225	0.016	0.00140	0.43	0.14	0.044	0	214.96	No
54	197	216.43	213.93							0.044	0	214.02	
										0.042			
E07A06-18	62.80	218.04	215.54	0.0096	225	0.016	0.00140	0.44	0.14	0.044	0	215.57	No
52	180	217.44	214.94							0.044	0	214.97	
										0.043			
E07A06-27	69.50	218.08	215.58	0.0152	225	0.016	0.00030	0.41	0.08	0.056	0	215.58	No
78	226	217.03	214.53							0.055	0	214.56	
										0.055			
E07A07-27	92.60	219.11	216.61	0.0225	225	0.016	0.00050	0.50	0.08	0.068	0	216.61	No
88	249	217.03	214.53							0.067	0	214.56	
										0.067			
E07A08-32	48.20	217.45	214.95	0.0058	225	0.016	0.00130	0.37	0.16	0.034	0	214.99	No
162	356	217.17	214.67							0.034	0	214.73	
										0.033			
E07A08-33	55.50	218.26	215.76	0.0146	225	0.016	0.00130	0.54	0.14	0.054	0	215.76	No
160	344	217.45	214.95							0.054	0	214.99	
										0.053			
E07A08-34	74.70	219.69	217.19	0.0191	225	0.016	0.00130	0.61	0.14	0.062	0	217.22	No
158	315	218.26	215.76							0.062	0	215.79	
										0.061			
E07A09-31	118.60	217.17	214.67	0.0068	300	0.017	0.00530	0.55	0.20	0.080	0	214.73	No
214	387	216.37	213.87							0.079	0	213.93	
										0.074			
E07A09-34	76.80	247.61	245.11	0.0199	250	0.016	0.00260	0.70	0.15	0.084	0	245.15	No
80	238	246.08	243.58							0.084	0	243.62	
										0.081			
E07A14-24	59.00	215.19	212.69	0.0071	150	0.016	0.00040	0.31	0.16	0.013	0	212.69	No
354	514	214.77	212.27							0.013	0	212.37	
										0.012			
E07A15-24	81.90	215.20	212.70	0.0053	300	0.016	0.00230	0.40	0.14	0.070	0	212.72	No
1194	532	214.77	212.27							0.070	0	212.37	
										0.068			
E07A15-27	125.90	216.20	213.70	0.0079	225	0.016	0.00130	0.40	0.14	0.040	0	213.70	No
374	565	215.20	212.70							0.040	0	212.74	
										0.039			
E07A16-31	76.20	214.95	212.45	0.0055	200	0.017	0.00150	0.39	0.21	0.024	0	212.49	No
424	320	214.53	212.03							0.024	0	212.15	
										0.023			
E07A16-34	97.50	215.31	212.81	0.0038	200	0.017	0.00150	0.32	0.21	0.020	0	212.85	No
422	612	214.95	212.45							0.020	0	212.49	
										0.019			
E07A17-31	109.70	215.56	213.06	0.0094	200	0.017	0.00320	0.54	0.24	0.032	0	213.10	No
460	632	214.53	212.03							0.032	0	212.15	
										0.029			

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E07A17-32 458	648	107.50	215.98 215.56	213.48 213.06	0.0040	200	0.017	0.00320	0.40	0.30	0.021 0.021 0.018	0 0	213.54 213.12	No
E07A19-10 498	698	104.20	216.35 215.96	213.85 213.46	0.0037	200	0.017	0.00300	0.39	0.30	0.020 0.020 0.017	0 0	213.88 213.52	No
E07A19-11 496	679	108.20	216.77 216.35	214.27 213.85	0.0040	200	0.017	0.00300	0.40	0.30	0.021 0.021 0.018	0 0	214.34 213.91	No
E07A20-14 536	728	15.80	214.98 210.98	212.48 208.48	0.2529	250	0.016	0.00180	1.67	0.07	0.300 0.299 0.297	0 0	212.48 208.67	No
E07A20-15 534	726	76.20	215.28 214.98	212.78 212.48	0.0040	250	0.016	0.00180	0.34	0.17	0.038 0.038 0.036	0 0	212.83 212.52	No
E07A20-16 532	716	79.53	215.77 215.28	213.27 212.78	0.0062	250	0.016	0.00180	0.42	0.17	0.047 0.047 0.045	0 0	213.32 212.83	No
E07A26-11 676	811	55.40	200.25 199.52	197.75 197.02	0.0132	200	0.017	0.00660	0.77	0.34	0.038 0.038 0.031	0 0	197.82 197.09	No
E07A26-12 642	304	65.80	202.58 200.25	200.08 197.75	0.0353	200	0.017	0.00520	1.06	0.24	0.062 0.062 0.056	0 0	200.10 197.82	No
E07A26-13 640	301	49.80	205.54 202.58	203.04 200.08	0.0594	200	0.016	0.00410	1.17	0.18	0.080 0.080 0.076	0 0	203.04 200.12	No
E07A26-27 638	294	82.10	212.48 205.54	209.98 203.04	0.0846	200	0.016	0.00160	1.13	0.12	0.096 0.095 0.094	0 0	209.98 203.07	No
E07A26-35 636	290	91.10	213.96 212.48	211.46 209.98	0.0163	200	0.016	0.00160	0.55	0.15	0.042 0.042 0.040	0 0	211.49 210.01	No
E07A26-36 634	286	86.40	214.60 213.96	212.10 211.46	0.0074	200	0.016	0.00160	0.41	0.18	0.028 0.028 0.027	0 0	212.14 211.50	No
E07A27-08 684	821	97.76	199.52 191.48	197.02 188.98	0.0822	200	0.017	0.01360	1.83	0.30	0.094 0.094 0.080	0 0	197.06 189.08	No
E07S01-38 1387	170	81.10	184.54 183.61	182.04 181.11	0.0115	950	0.016	0.01660	0.85	0.07	2.249 2.240 2.224	0 0	182.11 181.17	No
E07S02-03 1385	172	72.57	184.92 184.54	182.42 182.04	0.0052	950	0.016	0.01650	0.63	0.08	1.514 1.508 1.491	0 0	182.50 182.12	No

Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
										Qexcess			
E07S02-5 1383	76.49 175	185.41 184.92	182.91 182.42	0.0065	950	0.016	0.01650	0.67	0.08	1.684 1.677 1.661	0 0	182.95 182.50	No
E07S03-6 128	90.20 181	185.83 185.41	183.33 182.91	0.0047	950	0.016	0.01400	0.57	0.08	1.433 1.427 1.413	0 0	183.37 182.98	No
E07S03-9 126	57.60 182	187.36 185.83	184.86 183.33	0.0265	950	0.015	0.01400	1.06	0.05	3.411 3.398 3.384	0 0	184.86 183.40	No
E07S04-10 124	71.11 186	190.19 187.36	187.69 184.86	0.0398	300	0.017	0.01240	1.33	0.20	0.194 0.193 0.180	0 0	187.75 184.92	No
E07S04-13 122	77.76 189	193.96 190.19	191.46 187.69	0.0485	300	0.017	0.01240	1.47	0.20	0.214 0.213 0.200	0 0	191.49 187.75	No
E07S05-13 120	71.60 190	196.23 193.96	193.73 191.46	0.0316	250	0.017	0.01240	1.23	0.27	0.106 0.106 0.093	0 0	193.79 191.53	No
E07S05-14 118	67.40 191	212.64 196.23	210.14 193.73	0.2435	225	0.017	0.01240	2.62	0.19	0.222 0.221 0.209	0 0	210.16 193.79	No
E07S05-15 116	118.90 192	215.35 212.64	212.85 210.14	0.0228	225	0.017	0.01100	1.08	0.33	0.068 0.068 0.057	0 0	212.92 210.21	No
E07S06-16 114	116.50 196	216.43 215.35	213.93 212.85	0.0093	225	0.017	0.01100	0.78	0.41	0.043 0.043 0.032	0 0	214.02 212.94	No
E07S07-17 112	105.70 198	223.51 216.43	221.01 213.93	0.0669	225	0.017	0.00980	1.58	0.24	0.117 0.116 0.106	0 0	221.04 214.02	No
E07S07-20 110	105.83 203	226.46 223.51	223.96 221.01	0.0279	225	0.017	0.00630	1.02	0.24	0.075 0.075 0.069	0 0	224.02 221.06	No
E07S08-23 94	78.20 208	231.10 226.46	228.60 223.96	0.0593	225	0.016	0.00440	1.19	0.16	0.110 0.109 0.105	0 0	228.60 224.02	No
E07S08-26 92	92.70 213	235.16 231.10	232.66 228.60	0.0437	225	0.017	0.00440	1.11	0.19	0.094 0.094 0.089	0 0	232.70 228.65	No
E07S09-27 86	108.00 221	238.72 235.16	236.22 232.66	0.0330	250	0.016	0.00260	0.82	0.12	0.108 0.108 0.105	0 0	236.24 232.70	No
E07S09-30 228	94.80 417	216.37 214.75	213.87 212.25	0.0171	300	0.017	0.00740	0.87	0.20	0.127 0.126 0.119	0 0	213.93 212.34	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
										Qexcess			
E07S09-32	112.50	242.26	239.76	0.0315	250	0.016	0.00260	0.80	0.12	0.106	0	239.79	No
84	227	238.72	236.22							0.105	0	236.25	
										0.103			
E07S09-33	121.00	246.08	243.58	0.0315	250	0.016	0.00260	0.80	0.12	0.106	0	243.61	No
82	232	242.26	239.76							0.106	0	239.79	
										0.103			
E07SA05-20	45.80	201.60	199.10	0.2202	250	0.016	0.00390	1.85	0.10	0.280	0	199.10	No
1260	209	191.52	189.02							0.279	0	189.06	
										0.275			
E07SA05-22	49.80	208.92	206.42	0.1471	250	0.016	0.00380	1.73	0.12	0.229	0	206.45	No
1258	210	201.60	199.10							0.228	0	199.13	
										0.224			
E07SA05-24	9.96	210.93	208.43	0.2015	250	0.014	0.00020	0.79	0.02	0.268	0	208.43	No
74	211	208.92	206.42							0.267	0	206.45	
										0.267			
E07SA05-24	32.30	212.91	210.41	0.1234	300	0.016	0.00370	1.41	0.08	0.341	0	210.43	No
1256	212	208.92	206.42							0.339	0	206.45	
										0.336			
E07SA05-25	64.50	214.04	211.54	0.0175	250	0.016	0.00370	0.71	0.17	0.079	0	211.58	No
1254	216	212.91	210.41							0.079	0	210.45	
										0.075			
E07SA05-26	90.00	215.48	212.98	0.0160	250	0.016	0.00190	0.57	0.12	0.075	0	212.98	No
1252	220	214.04	211.54							0.075	0	211.58	
										0.073			
E07SA07-29	105.50	226.89	224.39	0.0331	225	0.016	0.00060	0.60	0.08	0.082	0	224.41	No
1246	234	223.40	220.90							0.082	0	220.92	
										0.081			
E07SA7-27	105.02	223.40	220.90	0.0607	225	0.016	0.00120	0.81	0.08	0.111	0	220.91	No
1248	231	217.03	214.53							0.111	0	214.56	
										0.109			
E08A02-24	96.00	218.33	215.83	0.0059	225	0.017	0.00170	0.41	0.19	0.035	0	215.83	No
808	57	217.76	215.26							0.035	0	215.31	
										0.033			
E08A02-25	31.00	218.45	215.95	0.0039	200	0.017	0.00170	0.35	0.24	0.021	0	216.00	No
806	52	218.33	215.83							0.021	0	215.88	
										0.019			
E08A03-16	101.40	217.51	215.01	0.0039	225	0.017	0.00140	0.33	0.19	0.028	0	215.01	No
818	73	217.11	214.61							0.028	0	214.72	
										0.027			
E08A03-17	102.10	217.89	215.39	0.0037	225	0.017	0.00140	0.32	0.19	0.028	0	215.43	No
816	56	217.51	215.01							0.027	0	215.05	
										0.026			
E08A03-19	101.50	217.76	215.26	0.0034	225	0.017	0.00170	0.33	0.22	0.026	0	215.29	No
810	76	217.42	214.92							0.026	0	215.02	
										0.024			

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E08A04-16 1266	241	11.00	189.22 188.78	186.72 186.28	0.0398	600	0.016	0.01600	1.36	0.09	1.229 1.224 1.208	0 0	186.72 186.35	No
E08A04-21 880	107	27.38	220.67 218.61	218.17 216.11	0.0752	200	0.016	0.00100	0.90	0.09	0.090 0.090 0.089	0 0	218.17 216.14	No
E08A06-23 68	204	106.70	227.07 226.46	224.57 223.96	0.0057	225	0.016	0.00090	0.33	0.14	0.034 0.034 0.033	0 0	224.59 224.02	No
E08A06-24 66	187	83.80	227.60 227.07	225.10 224.57	0.0063	225	0.016	0.00090	0.35	0.14	0.036 0.036 0.035	0 0	225.13 224.60	No
E08A07-23 108	235	92.11	226.50 226.46	224.00 223.96	0.0004	225	0.017	0.00110	0.13	0.30	0.009 0.009 0.008	0 0	224.07 224.03	No
E08A07-36 106	256	96.00	227.53 226.40	225.03 223.90	0.0118	225	0.016	0.00070	0.43	0.11	0.049 0.049 0.048	0 0	225.06 223.92	No
E08A08-40 198	362	169.96	227.59 225.99	225.09 223.49	0.0094	225	0.016	0.00120	0.43	0.14	0.044 0.044 0.042	0 0	225.09 223.53	No
E08A09-38 234	426	93.74	224.44 220.14	221.94 217.64	0.0459	225	0.016	0.00150	0.84	0.11	0.097 0.096 0.095	0 0	221.94 217.72	No
E08A09-39 230	398	95.92	224.94 224.44	222.44 221.94	0.0052	225	0.016	0.00080	0.32	0.14	0.032 0.032 0.031	0 0	222.47 221.97	No
E08A14-31 296	493	49.17	216.65 215.82	214.15 213.32	0.0169	150	0.016	0.00030	0.42	0.12	0.020 0.020 0.019	0 0	214.15 213.42	No
E08A15-31 1084	509	83.54	216.20 215.82	213.70 213.32	0.0046	225	0.016	0.01040	0.59	0.46	0.030 0.030 0.020	0 0	213.80 213.42	No
E08A15-32 1082	11	64.60	216.48 216.20	213.98 213.70	0.0043	225	0.016	0.01010	0.57	0.46	0.030 0.030 0.020	0 0	214.08 213.80	No
E08A15-33 1080	537	95.10	216.79 216.48	214.29 213.98	0.0033	225	0.017	0.00180	0.33	0.22	0.026 0.026 0.024	0 0	214.29 214.08	No
E08A15-34 1078	541	11.60	216.85 216.79	214.35 214.29	0.0052	225	0.017	0.00180	0.38	0.19	0.032 0.032 0.030	0 0	214.37 214.34	No
E08A15-35 372	561	79.66	217.23 216.85	214.73 214.35	0.0048	225	0.016	0.00090	0.31	0.14	0.031 0.031 0.030	0 0	214.73 214.39	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge	
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
										Qexcess				
E08A-16-38 418	617	81.20	215.46 215.18	212.96 212.68	0.0035	250	0.016	0.00100	0.29	0.15	0.035 0.035 0.034	0 0	212.96 212.80	No
E08A16-42 416	600	88.00	215.72 215.46	213.22 212.96	0.0029	250	0.016	0.00100	0.27	0.15	0.032 0.032 0.031	0 0	213.25 213.00	No
E08A16-44 1052	615	102.60	215.74 215.13	213.24 212.63	0.0060	250	0.017	0.00720	0.59	0.32	0.046 0.046 0.039	0 0	213.32 212.80	No
E08A16-53 1050	597	104.60	216.28 215.74	213.78 213.24	0.0052	250	0.017	0.00720	0.54	0.32	0.043 0.043 0.036	0 0	213.86 213.32	No
E08A17-38 456	332	88.43	215.97 215.18	213.47 212.68	0.0090	225	0.017	0.00290	0.54	0.22	0.043 0.042 0.040	0 0	213.52 212.80	No
E08A17-39 454	642	128.00	216.77 215.97	214.27 213.47	0.0063	225	0.017	0.00290	0.45	0.22	0.036 0.036 0.033	0 0	214.32 213.52	No
E08A19-23 492	691	112.80	216.23 215.56	213.73 213.06	0.0060	200	0.017	0.00210	0.44	0.24	0.026 0.025 0.023	0 0	213.76 213.11	No
E08A19-25 490	674	100.30	217.02 216.23	214.52 213.73	0.0079	200	0.017	0.00210	0.46	0.21	0.029 0.029 0.027	0 0	214.52 213.78	No
E08A20-18 518	723	106.70	215.13 211.60	212.63 209.10	0.0331	200	0.017	0.00420	0.95	0.21	0.060 0.060 0.055	0 0	212.65 209.24	No
E08A20-22 516	708	106.70	215.56 215.13	213.06 212.63	0.0040	200	0.017	0.00250	0.38	0.27	0.021 0.021 0.018	0 0	213.11 212.68	No
E08A21-18 1108	740	110.26	212.16 211.60	209.66 209.10	0.0051	250	0.016	0.01560	0.69	0.49	0.043 0.042 0.027	0 0	209.78 209.24	No
E08A21-19 1106	751	42.00	213.77 212.16	211.27 209.66	0.0383	250	0.017	0.01510	1.42	0.29	0.117 0.116 0.101	0 0	211.31 209.78	No
E08A21-21 1104	761	44.00	213.93 213.77	211.43 211.27	0.0036	250	0.016	0.01220	0.56	0.46	0.036 0.036 0.024	0 0	211.55 211.39	No
E08A22-44 1102	768	71.00	214.17 213.93	211.67 211.43	0.0034	250	0.016	0.01220	0.56	0.49	0.035 0.035 0.022	0 0	211.79 211.55	No
E08A22-45 1100	776	73.00	214.41 214.17	211.91 211.67	0.0033	250	0.016	0.01220	0.55	0.49	0.034 0.034 0.022	0 0	212.03 211.79	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E08A22-46 1098	780	26.35	214.55 214.41	212.05 211.91	0.0053	250	0.016	0.01220	0.64	0.41	0.044 0.043 0.031	0 0	212.11 212.03	No
E08A26-27 622	295	47.60	206.15 205.54	203.65 203.04	0.0129	200	0.017	0.00250	0.60	0.21	0.037 0.037 0.035	0 0	203.69 203.08	No
E08A26-28 620	293	117.00	208.83 206.15	206.33 203.65	0.0229	200	0.016	0.00250	0.73	0.18	0.050 0.050 0.047	0 0	206.33 203.69	No
E08A26-29 618	284	99.60	211.69 208.83	209.19 206.33	0.0287	200	0.016	0.00250	0.82	0.18	0.056 0.056 0.053	0 0	209.23 206.37	No
E08A26-30 616	804	85.20	214.42 211.69	211.92 209.19	0.0321	200	0.016	0.00250	0.86	0.18	0.059 0.059 0.056	0 0	211.94 209.23	No
E08AA02-26 782	49	97.50	226.04 220.80	223.54 218.30	0.0538	200	0.016	0.00270	1.01	0.15	0.076 0.076 0.073	0 0	223.57 218.33	No
E08AA02-30 814	63	53.00	226.20 225.97	223.70 223.47	0.0043	200	0.017	0.00180	0.37	0.24	0.022 0.022 0.020	0 0	223.75 223.52	No
E08AA02-33 812	55	64.00	226.52 226.20	224.02 223.70	0.0050	200	0.017	0.00180	0.37	0.21	0.023 0.023 0.021	0 0	224.02 223.75	No
E08AA03-28 838	80	80.14	225.97 223.27	223.47 220.77	0.0338	200	0.016	0.00280	0.88	0.18	0.060 0.060 0.057	0 0	223.51 220.80	No
E08AA04-19 888	90	90.50	218.00 217.42	215.50 214.92	0.0064	200	0.017	0.00200	0.42	0.21	0.026 0.026 0.024	0 0	215.52 215.02	No
E08AA04-20 886	95	79.74	222.36 218.00	219.86 215.50	0.0546	200	0.016	0.00110	0.76	0.09	0.077 0.077 0.076	0 0	219.87 215.54	No
E08AA05-22 884	108	81.53	222.92 222.36	220.42 219.86	0.0069	200	0.016	0.00110	0.36	0.15	0.027 0.027 0.026	0 0	220.45 219.89	No
E08AA05-34 138	275	41.10	194.01 191.13	191.51 188.63	0.0701	225	0.015	0.00050	0.68	0.05	0.119 0.119 0.118	0 0	191.51 188.65	No
E08AA08-21 152	278	42.10	201.70 193.71	199.20 191.21	0.1898	225	0.015	0.00070	1.12	0.05	0.196 0.195 0.195	0 0	199.20 191.23	No
E08AA08-42 206	365	72.50	228.92 228.46	226.42 225.96	0.0064	225	0.016	0.00140	0.39	0.16	0.036 0.036 0.035	0 0	226.46 225.99	No

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E08aA25-32 626	810	15.50	209.20 208.93	206.70 206.43	0.0174	200	0.016	0.00200	0.64	0.18	0.043 0.043 0.041	0 0	206.70 206.47	No
E08aA25-33 624	808	105.00	213.00 209.20	210.50 206.70	0.0362	200	0.016	0.00200	0.83	0.15	0.063 0.062 0.060	0 0	210.50 206.74	No
E08aA26-12 674	305	76.20	203.27 200.25	200.77 197.75	0.0396	200	0.016	0.00150	0.78	0.12	0.066 0.065 0.064	0 0	200.79 197.82	No
E08aA26-14 672	296	80.10	205.30 203.27	202.80 200.77	0.0253	200	0.016	0.00150	0.69	0.15	0.052 0.052 0.051	0 0	202.83 200.80	No
E08aA26-15 670	289	78.60	206.83 205.30	204.33 202.80	0.0195	200	0.016	0.00150	0.61	0.15	0.046 0.046 0.044	0 0	204.36 202.83	No
E08AB03-31 834	74	33.80	236.51 233.97	234.01 231.47	0.0750	200	0.016	0.00090	0.90	0.09	0.090 0.090 0.089	0 0	234.03 231.49	No
E08S01-1 1412	224	26.34	180.57 180.28	178.07 177.78	0.0113	525	0.017	0.10350	1.44	0.37	0.459 0.457 0.353	0 0	178.07 178.04	No
E08S01-3 1408	219	82.90	182.54 181.02	180.04 178.52	0.0184	600	0.016	0.01820	1.10	0.12	0.834 0.831 0.813	0 0	180.09 178.59	No
E08S01-9 1406	222	21.76	182.69 182.54	180.19 180.04	0.0068	600	0.016	0.01820	0.74	0.15	0.506 0.504 0.486	0 0	180.28 180.13	No
E08S02-10 1404	228	125.00	184.48 182.69	181.98 180.19	0.0143	600	0.016	0.01810	0.97	0.12	0.736 0.733 0.715	0 0	181.98 180.28	No
E08S02-11 1402	229	22.50	184.67 184.48	182.17 181.98	0.0086	600	0.016	0.01810	0.81	0.14	0.572 0.570 0.552	0 0	182.25 182.06	No
E08S03-12 1272	233	123.40	185.99 184.67	183.49 182.17	0.0107	600	0.016	0.01750	0.87	0.13	0.637 0.635 0.617	0 0	183.49 182.25	No
E08S03-14 1270	236	28.13	186.36 185.99	183.86 183.49	0.0132	600	0.016	0.01740	0.93	0.12	0.708 0.705 0.688	0 0	183.91 183.57	No
E08S04-15 1268	240	122.57	188.78 186.36	186.28 183.86	0.0197	600	0.016	0.01600	1.08	0.11	0.865 0.861 0.845	0 0	186.32 183.94	No
E08S04-20 882	105	80.07	218.61 218.00	216.11 215.50	0.0076	200	0.016	0.00100	0.38	0.15	0.029 0.029 0.028	0 0	216.11 215.54	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E08S05-17	14.00	189.56	187.06	0.0244	600	0.016	0.01600	1.13	0.10	0.961	0	187.12	No
1264	242	189.22	186.72							0.957	0	186.78	
										0.941			
E08S05-18	16.20	190.61	188.11	0.0648	450	0.016	0.01130	1.58	0.11	0.728	0	188.11	No
982	243	189.56	187.06							0.725	0	187.12	
										0.713			
E08S05-19	36.60	191.13	188.63	0.0396	225	0.016	0.00050	0.66	0.08	0.090	0	188.63	No
140	269	189.68	187.18							0.089	0	187.21	
										0.089			
E08S05-33	126.80	219.50	217.00	0.0336	225	0.017	0.00870	1.18	0.27	0.083	0	217.06	No
970	254	215.24	212.74							0.082	0	212.80	
										0.074			
E08S05-49	71.50	198.88	196.38	0.1156	375	0.016	0.01130	1.93	0.11	0.598	0	196.40	No
980	244	190.61	188.11							0.596	0	188.16	
										0.584			
E08S05-50	73.87	206.60	204.10	0.1046	375	0.016	0.00870	1.67	0.10	0.569	0	204.13	No
978	246	198.88	196.38							0.567	0	196.42	
										0.558			
E08S05-51	16.00	207.80	205.30	0.0747	375	0.016	0.00870	1.55	0.11	0.481	0	205.34	No
976	247	206.60	204.10							0.479	0	204.15	
										0.470			
E08S05-52	6.80	208.04	205.54	0.0362	375	0.016	0.00870	1.17	0.13	0.335	0	205.59	No
974	248	207.80	205.30							0.333	0	205.35	
										0.325			
E08S05-53	69.40	215.24	212.74	0.1036	225	0.017	0.00870	1.71	0.19	0.145	0	212.76	No
972	250	208.04	205.54							0.144	0	205.59	
										0.136			
E08S07-34	35.70	221.92	219.42	0.0679	225	0.017	0.00870	1.49	0.22	0.117	0	219.42	No
968	255	219.50	217.00							0.117	0	217.06	
										0.108			
E08S07-36	175.30	227.51	225.01	0.0319	225	0.017	0.00870	1.15	0.27	0.080	0	225.07	No
966	260	221.92	219.42							0.080	0	219.48	
										0.071			
E08S08-38	29.18	242.85	240.35	0.0518	250	0.017	0.00690	1.32	0.20	0.136	0	240.40	No
960	263	241.34	238.84							0.135	0	238.89	
										0.128			
E08S09-37	25.00	228.88	226.38	0.0548	250	0.017	0.00870	1.35	0.20	0.140	0	226.41	No
964	261	227.51	225.01							0.139	0	225.07	
										0.130			
E08S09-39	69.87	244.29	241.79	0.0206	250	0.017	0.00690	0.89	0.22	0.086	0	241.85	No
958	271	242.85	240.35							0.085	0	240.41	
										0.078			
E08S09-40	75.00	244.89	242.39	0.0080	300	0.017	0.00690	0.63	0.22	0.087	0	242.46	No
956	277	244.29	241.79							0.086	0	241.86	
										0.080			

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
E08S09-41 954	311	114.00	245.40 244.89	242.90 242.39	0.0045	300	0.016	0.00370	0.42	0.18	0.065 0.065 0.061	0 0	242.90 242.46	No
E08S10-42 952	316	102.00	245.82 245.40	243.32 242.90	0.0041	250	0.017	0.00370	0.42	0.24	0.038 0.038 0.034	0 0	243.38 242.96	No
E08S11-43 950	318	51.00	246.94 245.82	244.44 243.32	0.0220	250	0.016	0.00370	0.80	0.17	0.088 0.088 0.084	0 0	244.44 243.38	No
E08S11-44 948	338	118.00	250.86 246.94	248.36 244.44	0.0332	250	0.016	0.00370	0.90	0.15	0.109 0.108 0.105	0 0	248.36 244.48	No
E08SA05-15 144	258	79.82	189.36 187.37	186.86 184.87	0.0249	225	0.016	0.00120	0.62	0.11	0.071 0.071 0.070	0 0	186.86 184.91	No
E08SA09-24 148	314	105.80	216.29 213.65	213.79 211.15	0.0250	225	0.016	0.00070	0.52	0.08	0.071 0.071 0.070	0 0	213.81 211.17	No
E08SA09-33 150	309	34.10	213.65 201.70	211.15 199.20	0.3504	225	0.015	0.00070	1.53	0.05	0.267 0.266 0.265	0 0	211.16 199.21	No
E09A04-10 904	147	106.70	245.07 238.96	242.57 236.46	0.0572	200	0.016	0.00030	0.61	0.06	0.079 0.078 0.078	0 0	242.58 236.47	No
E09A04-11 902	115	55.50	249.76 245.07	247.26 242.57	0.0845	200	0.016	0.00030	0.75	0.06	0.096 0.095 0.095	0 0	247.27 242.58	No
E09A05-7 906	164	91.40	238.96 235.46	236.46 232.96	0.0383	200	0.016	0.00030	0.50	0.06	0.064 0.064 0.064	0 0	236.46 232.98	No
E09A06-27 76	215	193.26	237.50 235.16	235.00 232.66	0.0121	375	0.015	0.00030	0.30	0.03	0.194 0.193 0.193	0 0	235.01 232.70	No
E09A07-27 90	251	134.00	237.54 235.16	235.04 232.66	0.0178	225	0.016	0.00060	0.44	0.08	0.060 0.060 0.059	0 0	235.04 232.70	No
E09A08-102 164	350	66.10	244.21 241.23	241.71 238.73	0.0450	225	0.016	0.00100	0.70	0.08	0.096 0.095 0.094	0 0	241.72 238.75	No
E09A08-47 166	366	94.50	241.23 236.27	238.73 233.77	0.0525	225	0.016	0.00100	0.76	0.08	0.103 0.103 0.102	0 0	238.73 233.82	No
E09A09-46 220	404	118.90	236.27 233.54	233.77 231.04	0.0230	225	0.017	0.00330	0.81	0.19	0.068 0.068 0.065	0 0	233.82 231.08	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge	
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
										Qexcess				
E09A11-42 1182	448	55.29	226.12 225.71	223.62 223.21	0.0075	225	0.013	0.00000	0.06	0.00	0.039 0.039 0.039	0 0	223.62 223.21	No
E09A15-01 1046	558	55.60	218.25 217.63	215.75 215.13	0.0112	225	0.016	0.00030	0.35	0.08	0.048 0.047 0.047	0 0	215.76 215.20	No
E09A15-02 1044	543	143.24	218.96 218.25	216.46 215.75	0.0050	225	0.015	0.00010	0.18	0.05	0.032 0.032 0.032	0 0	216.46 215.77	No
E09A15-44 264	475	48.50	225.17 224.02	222.67 221.52	0.0237	225	0.015	0.00010	0.40	0.05	0.069 0.069 0.069	0 0	222.68 221.53	No
E09A15-45 266	496	96.30	224.02 221.73	221.52 219.23	0.0238	225	0.015	0.00010	0.40	0.05	0.069 0.069 0.069	0 0	221.53 219.24	No
E09A15-47 268	3	71.30	221.73 218.59	219.23 216.09	0.0440	225	0.015	0.00010	0.54	0.05	0.095 0.094 0.094	0 0	219.24 216.18	No
E09A16-47 404	611	95.20	216.81 216.35	214.31 213.85	0.0049	250	0.016	0.00190	0.38	0.17	0.042 0.041 0.040	0 0	214.33 213.90	No
E09A16-50 402	590	85.00	217.24 216.81	214.74 214.31	0.0051	250	0.016	0.00190	0.38	0.17	0.042 0.042 0.040	0 0	214.78 214.35	No
E09A17-47 448	334	145.50	216.79 216.35	214.29 213.85	0.0030	200	0.017	0.00210	0.33	0.27	0.018 0.018 0.016	0 0	214.32 213.90	No
E09A17-48 446	639	91.60	217.70 216.79	215.20 214.29	0.0099	200	0.017	0.00210	0.52	0.21	0.033 0.033 0.031	0 0	215.20 214.34	No
E09A18-40 470	666	83.80	217.84 217.08	215.34 214.58	0.0091	200	0.017	0.00260	0.54	0.24	0.031 0.031 0.029	0 0	215.39 214.63	No
E09A19-37 1705	684	15.20	212.67 212.62	210.17 210.12	0.0038	450	0.016	0.00800	0.48	0.16	0.177 0.176 0.168	0 0	210.22 210.20	No
E09A19-39 472	670	99.00	217.08 216.09	214.58 213.59	0.0100	200	0.017	0.00260	0.56	0.24	0.033 0.033 0.030	0 0	214.63 213.64	No
E09A19-42 474	682	99.00	216.09 212.67	213.59 210.17	0.0345	200	0.016	0.00260	0.89	0.18	0.061 0.061 0.058	0 0	213.59 210.25	No
E09A19-45 222	434	93.00	233.54 226.22	231.04 223.72	0.0787	225	0.016	0.00330	1.25	0.14	0.126 0.126 0.123	0 0	231.07 223.82	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E09A20-27 1711	719	12.20	212.00 211.96	209.50 209.46	0.0030	450	0.017	0.01070	0.48	0.20	0.155 0.155 0.144	0 0	209.57 209.57	No
E09A20-36 1709	718	119.50	212.36 212.00	209.86 209.50	0.0030	450	0.017	0.01070	0.48	0.20	0.157 0.156 0.146	0 0	209.91 209.59	No
E09A20-43 1707	699	84.75	212.62 212.36	210.12 209.86	0.0030	450	0.017	0.00880	0.46	0.19	0.157 0.157 0.148	0 0	210.12 209.95	No
E09A22-54 1088	772	63.20	215.40 214.68	212.90 212.18	0.0114	250	0.016	0.00280	0.57	0.17	0.064 0.063 0.061	0 0	212.90 212.44	No
E09A23-53 1092	785	71.10	215.73 214.68	213.23 212.18	0.0148	250	0.017	0.00820	0.84	0.27	0.073 0.072 0.064	0 0	213.23 212.44	No
E09A23-55 1090	791	59.80	216.01 215.73	213.51 213.23	0.0047	250	0.017	0.00820	0.56	0.37	0.041 0.041 0.033	0 0	213.60 213.32	No
E09A25-18 630	282	87.45	208.33 205.64	205.83 203.14	0.0308	200	0.017	0.00600	1.06	0.27	0.058 0.058 0.052	0 0	205.86 203.21	No
E09A25-24 612	805	93.97	211.02 208.33	208.52 205.83	0.0286	200	0.017	0.00400	0.89	0.21	0.056 0.055 0.051	0 0	208.52 205.89	No
E09A25-25 610	801	42.00	212.89 211.02	210.39 208.52	0.0445	200	0.017	0.00400	1.10	0.21	0.069 0.069 0.065	0 0	210.43 208.56	No
E09A26-19 664	292	127.29	205.64 204.63	203.14 202.13	0.0079	200	0.017	0.00640	0.63	0.37	0.029 0.029 0.023	0 0	203.21 202.20	No
E09A26-20 666	302	76.43	204.63 203.99	202.13 201.49	0.0084	200	0.017	0.00640	0.65	0.37	0.030 0.030 0.024	0 0	202.20 201.56	No
E09A26-21 668	306	48.34	203.99 203.45	201.49 200.95	0.0112	250	0.017	0.00640	0.69	0.24	0.063 0.063 0.056	0 0	201.49 201.02	No
E09A27-21 678	308	30.00	204.40 203.45	201.90 200.95	0.0317	200	0.016	0.00040	0.58	0.09	0.059 0.058 0.058	0 0	201.91 201.02	No
E09A31-X4 700	838	151.57	182.77 181.96	180.27 179.46	0.0053	200	0.016	0.00060	0.28	0.12	0.024 0.024 0.023	0 0	180.29 179.49	No
E09A31-X5 698	837	65.88	183.23 182.77	180.73 180.27	0.0070	200	0.016	0.00060	0.33	0.12	0.028 0.028 0.027	0 0	180.76 180.29	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
										Qexcess			
E09S01-01 1435	266	13.48	179.67 178.75	177.17 176.25	0.0679	250	0.016	0.00720	1.40	0.17	0	177.19 176.58	Yes
E09S01-03 1433	268	23.80	180.45 179.67	177.95 177.17	0.0330	600	0.016	0.00720	1.07	0.07	0	177.99 177.21	No
E09S01-28 136	267	22.30	179.33 179.67	176.83 177.17	-0.0150	600	0.000	0.00000	0.06	1.00	0	177.22 177.22	No
E09S01-29 134	270	17.10	179.66 179.33	177.16 176.83	0.0192	900	0.013	0.00000	0.26	0.01	0	177.22 177.22	No
E09S01-4 1431	273	40.78	180.96 180.45	178.46 177.95	0.0126	600	0.016	0.00720	0.71	0.08	0	178.51 178.00	No
E09S02-5 1429	310	121.60	181.79 180.96	179.29 178.46	0.0068	600	0.016	0.00710	0.56	0.09	0	179.35 178.52	No
E09S03-8 1427	312	27.43	182.60 181.79	180.10 179.29	0.0294	600	0.016	0.00710	1.01	0.07	0	180.12 179.35	No
E09S03-8 1425	317	121.67	182.82 182.60	180.32 180.10	0.0018	600	0.016	0.00700	0.36	0.13	0	180.40 180.18	No
E09S04-11 1421	339	121.24	184.41 183.10	181.91 180.60	0.0108	600	0.016	0.00470	0.61	0.07	0	181.93 180.65	No
E09S04-11 1423	336	27.46	183.10 182.82	180.60 180.32	0.0102	600	0.016	0.00630	0.64	0.08	0	180.60 180.40	No
E09S04-13 1419	341	25.91	185.26 184.41	182.76 181.91	0.0329	600	0.016	0.00470	0.97	0.06	0	182.76 181.95	No
E09S05-14 988	343	74.03	187.50 185.26	185.00 182.76	0.0303	450	0.015	0.00200	0.71	0.05	0	185.02 182.80	No
E09S05-23 984	348	10.06	191.80 191.16	189.30 188.66	0.0636	450	0.014	0.00020	0.47	0.01	0	189.30 188.68	No
E09S05-31 986	346	90.06	191.16 187.50	188.66 185.00	0.0406	450	0.015	0.00120	0.70	0.04	0	188.66 185.02	No
E09S06-28 176	355	83.20	215.94 214.34	213.44 211.84	0.0193	225	0.016	0.00190	0.62	0.14	0	213.44 211.88	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E09S07-100	150.00	225.99	223.49	0.0269	225	0.017	0.00400	0.87	0.19	0.074	0	223.53	No
210	361	221.96	219.46							0.074	0	219.50	
										0.070			
E09S07-32	60.10	221.96	219.46	0.0797	225	0.016	0.00400	1.26	0.14	0.127	0	219.46	No
212	358	217.17	214.67							0.127	0	214.73	
										0.123			
E09S08-40	80.80	228.46	225.96	0.0305	225	0.016	0.00140	0.68	0.11	0.079	0	225.98	No
208	364	225.99	223.49							0.078	0	223.53	
										0.077			
E09S09-47	61.00	243.20	240.70	0.1136	225	0.016	0.00120	1.11	0.08	0.152	0	240.72	No
218	368	236.27	233.77							0.151	0	233.82	
										0.150			
E09S09-48	77.10	243.43	240.93	0.0030	225	0.017	0.00120	0.29	0.19	0.025	0	240.98	No
216	376	243.20	240.70							0.025	0	240.74	
										0.023			
E09SA-07-31	118.76	218.76	216.26	0.0201	225	0.016	0.00120	0.56	0.11	0.064	0	216.26	No
226	393	216.37	213.87							0.064	0	213.93	
										0.062			
E09SA07-36	75.60	221.62	219.12	0.0378	225	0.016	0.00120	0.76	0.11	0.088	0	219.14	No
224	395	218.76	216.26							0.087	0	216.28	
										0.086			
E09SA09-39	77.10	224.93	222.43	0.0063	225	0.016	0.00070	0.35	0.14	0.036	0	222.46	No
232	401	224.44	221.94							0.036	0	221.97	
										0.035			
E10A08-58	91.40	243.29	240.79	0.0083	200	0.017	0.00180	0.48	0.21	0.030	0	240.83	No
202	392	242.53	240.03							0.030	0	240.07	
										0.028			
E10A08-59	91.40	243.75	241.25	0.0050	200	0.017	0.00180	0.40	0.24	0.023	0	241.30	No
200	363	243.29	240.79							0.023	0	240.84	
										0.021			
E10A09-56	91.40	235.12	232.62	0.0813	200	0.016	0.00420	1.37	0.18	0.094	0	232.64	No
1134	446	227.69	225.19							0.093	0	225.31	
										0.089			
E10A09-57	48.07	238.80	236.30	0.0765	200	0.016	0.00350	1.20	0.15	0.091	0	236.30	No
1132	422	235.12	232.62							0.091	0	232.66	
										0.087			
E10A10-54	66.19	225.13	222.63	0.0535	200	0.016	0.00030	0.59	0.06	0.076	0	222.63	No
278	479	221.59	219.09							0.076	0	219.13	
										0.076			
E10A11-53	83.27	221.59	219.09	0.0102	200	0.017	0.00250	0.53	0.21	0.033	0	219.09	No
284	495	220.74	218.24							0.033	0	218.30	
										0.031			
E10S01-01	12.81	178.67	176.17	0.0502	250	0.014	0.00000	0.39	0.02	0.134	0	176.18	Yes
1118	375	178.03	175.53							0.133	0	175.91	
										0.133			

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E10S01-06 1443	370	30.21	178.03 177.89	175.53 175.39	0.0048	900	0.017	0.28560	1.35	0.37	1.262 1.257 0.972	0 0	175.91 175.91	No
E10S02-06 1510	371	11.40	178.65 177.89	176.15 175.39	0.0667	600	0.016	0.03070	1.98	0.11	1.590 1.584 1.553	0 0	176.19 175.91	No
E10S02-10 1506	382	63.80	179.42 178.95	176.92 176.45	0.0074	450	0.017	0.03070	0.90	0.28	0.245 0.244 0.214	0 0	177.05 176.58	No
E10S03-114 1502	386	79.50	180.27 179.83	177.77 177.33	0.0055	450	0.017	0.03030	0.80	0.30	0.213 0.212 0.182	0 0	177.90 177.46	No
E10S03-16 1500	389	70.53	180.90 180.27	178.40 177.77	0.0089	375	0.017	0.03040	0.98	0.34	0.166 0.166 0.135	0 0	178.40 177.90	No
E10S04-17 1498	391	11.90	181.66 180.90	179.16 178.40	0.0635	375	0.017	0.03030	1.99	0.21	0.443 0.441 0.411	0 0	179.20 178.53	No
E10S04-20 1496	396	135.83	183.41 181.66	180.91 179.16	0.0129	350	0.017	0.03030	1.10	0.33	0.166 0.165 0.135	0 0	181.02 179.27	No
E10S05-22 1494	400	79.95	192.92 183.41	190.42 180.91	0.1190	300	0.017	0.02850	2.43	0.22	0.335 0.333 0.305	0 0	190.46 181.02	No
E10S05-91 1492	408	89.35	201.94 192.92	199.44 190.42	0.1010	300	0.017	0.02810	2.35	0.24	0.308 0.307 0.279	0 0	199.52 190.49	No
E10S05-92 1490	412	96.79	211.13 201.94	208.63 199.44	0.0949	300	0.017	0.02810	2.27	0.24	0.299 0.298 0.270	0 0	208.70 199.52	No
E10S06-25 1488	416	110.49	214.75 211.13	212.25 208.63	0.0328	300	0.017	0.02650	1.51	0.30	0.176 0.175 0.148	0 0	212.34 208.72	No
E10S07-30 1486	424	105.21	216.35 214.75	213.85 212.25	0.0152	250	0.016	0.01980	1.09	0.41	0.074 0.073 0.054	0 0	213.96 212.35	No
E10S08-101 1480	433	91.23	226.22 224.60	223.72 222.10	0.0178	250	0.017	0.01790	1.13	0.39	0.080 0.079 0.061	0 0	223.82 222.20	No
E10S08-38 1482	429	77.10	224.60 220.14	222.10 217.64	0.0579	250	0.017	0.01850	1.74	0.29	0.143 0.143 0.124	0 0	222.10 217.72	No
E10S09-45 1469	438	88.45	226.70 226.22	224.20 223.72	0.0054	250	0.017	0.00230	0.42	0.20	0.044 0.043 0.041	0 0	224.22 223.82	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge	
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
										Qexcess				
E10S09-45 1478	437	91.40	226.97 226.22	224.47 223.72	0.0081	225	0.016	0.01290	0.78	0.46	0.041 0.041 0.028	0 0	224.57 223.83	No
E10S09-51 1467	442	91.44	227.15 226.70	224.65 224.20	0.0050	250	0.016	0.00080	0.32	0.12	0.042 0.042 0.041	0 0	224.65 224.25	No
E10S09-52 1476	440	91.40	227.38 226.97	224.88 224.47	0.0045	225	0.016	0.01290	0.64	0.54	0.030 0.030 0.017	0 0	225.00 224.59	No
E10S09-53 1465	447	82.30	227.56 227.15	225.06 224.65	0.0050	250	0.016	0.00080	0.32	0.12	0.042 0.042 0.041	0 0	225.08 224.68	No
E10S09-54 1474	445	80.80	227.69 227.38	225.19 224.88	0.0039	225	0.016	0.01210	0.59	0.54	0.028 0.028 0.016	0 0	225.31 225.00	No
E10S09-99 1484	425	105.81	220.14 216.35	217.64 213.85	0.0358	250	0.017	0.01980	1.49	0.34	0.113 0.112 0.093	0 0	217.69 213.96	No
E10S10-55 1463	456	99.10	228.97 227.56	226.47 225.06	0.0142	250	0.016	0.00080	0.47	0.10	0.071 0.071 0.070	0 0	226.47 225.09	No
E10S10-56 1472	453	100.60	229.17 227.69	226.67 225.19	0.0147	225	0.017	0.00820	0.83	0.30	0.055 0.054 0.046	0 0	226.70 225.31	No
E10S10-61 1470	457	8.17	229.42 229.17	226.92 226.67	0.0316	200	0.013	0.00000	0.06	0.00	0.058 0.058 0.058	0 0	226.92 226.73	No
E10S11-104 1162	467	38.40	233.82 233.20	231.32 230.70	0.0159	250	0.016	0.00190	0.57	0.12	0.075 0.075 0.073	0 0	231.35 230.73	No
E10S11-62 1462	459	91.40	230.80 229.17	228.30 226.67	0.0178	250	0.017	0.00520	0.77	0.20	0.080 0.079 0.074	0 0	228.30 226.73	No
E10S11-68 1460	463	58.80	232.45 230.80	229.95 228.30	0.0282	250	0.017	0.00520	0.97	0.20	0.100 0.100 0.095	0 0	229.98 228.34	No
E10S11-69 1164	465	32.60	233.20 232.45	230.70 229.95	0.0230	250	0.016	0.00220	0.69	0.12	0.091 0.090 0.088	0 0	230.72 230.00	No
E10S11-77 248	469	37.80	234.12 233.82	231.62 231.32	0.0080	250	0.016	0.00190	0.44	0.15	0.053 0.053 0.051	0 0	231.66 231.35	No
E10S16-24 1554	531	62.53	226.89 226.09	224.39 223.59	0.0128	375	0.016	0.01030	0.82	0.18	0.199 0.198 0.188	0 0	224.39 223.67	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E10S16-25 1552	517	122.49	227.31 226.89	224.81 224.39	0.0034	375	0.017	0.01030	0.50	0.24	0.103 0.103 0.092	0 0	224.90 224.48	No
E10S16-26 1550	505	55.02	227.52 227.31	225.02 224.81	0.0038	375	0.017	0.01030	0.53	0.24	0.109 0.108 0.098	0 0	225.11 224.90	No
E10S16-27 1545	489	47.70	227.93 227.52	225.43 225.02	0.0086	300	0.017	0.00610	0.62	0.20	0.090 0.090 0.083	0 0	225.43 225.11	No
E10S16-28 1543	486	40.73	228.11 227.93	225.61 225.43	0.0044	250	0.017	0.00610	0.50	0.32	0.040 0.040 0.033	0 0	225.69 225.51	No
E11A08-64 188	414	91.40	245.37 240.70	242.87 238.20	0.0510	225	0.016	0.00280	1.00	0.14	0.102 0.101 0.099	0 0	242.90 238.23	No
E11A08-66 186	385	91.40	247.56 245.37	245.06 242.87	0.0240	225	0.016	0.00280	0.76	0.16	0.070 0.070 0.067	0 0	245.10 242.90	No
E11A08-66 184	359	91.40	247.84 247.56	245.34 245.06	0.0030	225	0.017	0.00280	0.36	0.27	0.025 0.025 0.022	0 0	245.40 245.12	No
E11A09-62 192	454	69.50	236.65 229.17	234.15 226.67	0.1076	225	0.016	0.00280	1.28	0.11	0.148 0.147 0.144	0 0	234.17 226.73	No
E11A09-63 190	430	68.60	240.70 236.65	238.20 234.15	0.0591	225	0.016	0.00280	1.08	0.14	0.110 0.109 0.106	0 0	238.23 234.18	No
E11A11-59 310	502	115.82	225.00 222.44	222.50 219.94	0.0221	200	0.016	0.00080	0.58	0.12	0.049 0.049 0.048	0 0	222.50 219.99	No
E11S01-05 1518	474	99.04	177.58 177.47	175.08 174.97	0.0011	600	0.016	0.30620	0.81	0.49	0.801 0.798 0.492	0 0	175.49 175.49	No
E11S02-06 1014	461	6.94	178.98 177.58	176.48 175.08	0.2018	225	0.016	0.00530	2.00	0.14	0.202 0.202 0.196	0 0	176.50 175.57	Yes
E11S02-15 308	462	55.20	179.92 178.98	177.42 176.48	0.0170	200	0.017	0.00460	0.79	0.27	0.043 0.043 0.038	0 0	177.48 176.54	No
E11S02-16 306	452	52.29	180.44 179.92	177.94 177.42	0.0099	600	0.016	0.00460	0.58	0.07	0.614 0.612 0.607	0 0	177.94 177.48	No
E11S02-17 304	443	11.64	180.46 180.44	177.96 177.94	0.0017	600	0.016	0.00460	0.32	0.11	0.255 0.254 0.250	0 0	178.03 178.01	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E11S03-18 276	441	88.00	182.04 180.46	179.54 177.96	0.0180	250	0.016	0.00330	0.72	0.17	0.080 0.080 0.076	0 0	179.56 178.03	No
E11S03-22 274	432	41.00	183.55 182.04	181.05 179.54	0.0369	250	0.016	0.00240	0.87	0.12	0.115 0.114 0.112	0 0	181.05 179.58	No
E11S10-54 282	480	51.20	223.31 221.59	220.81 219.09	0.0336	200	0.016	0.00100	0.71	0.12	0.060 0.060 0.059	0 0	220.82 219.13	No
E11S10-56 280	481	106.70	224.52 223.31	222.02 220.81	0.0113	200	0.016	0.00100	0.46	0.15	0.035 0.035 0.034	0 0	222.05 220.84	No
E11S12-63 286	482	83.48	225.16 224.82	222.66 222.32	0.0041	200	0.017	0.00260	0.38	0.27	0.021 0.021 0.018	0 0	222.72 222.38	No
E12A11-61 290	508	63.10	223.39 222.96	220.89 220.46	0.0068	200	0.017	0.00260	0.46	0.24	0.027 0.027 0.024	0 0	220.89 220.52	No
E12A11-62 288	488	54.24	224.82 223.39	222.32 220.89	0.0264	200	0.016	0.00260	0.78	0.18	0.053 0.053 0.051	0 0	222.34 220.94	No
E12A15-07 1032	563	80.47	219.40 218.86	216.90 216.36	0.0068	200	0.017	0.00490	0.55	0.34	0.027 0.027 0.022	0 0	216.90 216.44	No
E12A15-7a 1030	540	80.47	219.65 219.40	217.15 216.90	0.0031	200	0.016	0.00490	0.43	0.43	0.018 0.018 0.013	0 0	217.23 216.99	No
E12S01-03 334	15	10.26	179.16 177.25	176.66 174.75	0.1864	200	0.016	0.00110	1.41	0.09	0.142 0.142 0.140	0 0	176.66 175.26	No
E12S01-08 332	13	13.40	179.92 179.16	177.42 176.66	0.0569	200	0.016	0.00110	0.78	0.09	0.078 0.078 0.077	0 0	177.44 176.68	No
E12S01-10 330	8	97.80	180.35 179.92	177.85 177.42	0.0044	300	0.016	0.00110	0.30	0.10	0.064 0.064 0.063	0 0	177.88 177.45	No
E12S02-11 328	1	92.10	183.23 180.35	180.73 177.85	0.0313	225	0.015	0.00020	0.46	0.05	0.080 0.079 0.079	0 0	180.73 177.88	No
E12S03-27 298	498	87.10	186.50 183.66	184.00 181.16	0.0326	300	0.016	0.00140	0.72	0.08	0.175 0.174 0.173	0 0	184.00 181.19	No
E12S10-53 314	499	59.10	221.50 220.74	219.00 218.24	0.0129	200	0.017	0.00340	0.64	0.24	0.037 0.037 0.034	0 0	219.00 218.30	No

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E12S10-65 312	501	82.00	222.44 221.50	219.94 219.00	0.0115	200	0.017	0.00340	0.60	0.24	0.035 0.035 0.032	0 0	219.97 219.05	No
E12S11-59 294	504	30.50	222.60 222.44	220.10 219.94	0.0053	200	0.017	0.00260	0.44	0.27	0.024 0.024 0.021	0 0	220.16 220.00	No
E12S11-60 292	507	87.69	222.96 222.60	220.46 220.10	0.0041	200	0.017	0.00260	0.39	0.27	0.021 0.021 0.018	0 0	220.52 220.16	No
E13A12-10 338	523	76.20	221.26 220.05	218.76 217.55	0.0158	200	0.016	0.00110	0.55	0.15	0.041 0.041 0.040	0 0	218.76 217.63	No
E13A12-10a 336	2	106.70	224.06 221.26	221.56 218.76	0.0262	200	0.016	0.00110	0.63	0.12	0.053 0.053 0.052	0 0	221.56 218.79	No
E13S01-05 1528	564	103.79	177.04 176.93	174.54 174.43	0.0011	300	0.016	0.30820	0.80	0.50	0.783 0.780 0.471	0 0	174.94 174.94	No
E13S02-01 1224	550	51.82	179.39 177.89	176.89 175.39	0.0290	300	0.017	0.02270	1.42	0.30	0.165 0.164 0.142	0 0	176.98 175.48	No
E13S02-02 1226	551	5.70	177.89 176.93	175.39 174.43	0.1684	300	0.017	0.02380	2.74	0.20	0.398 0.396 0.373	0 0	175.43 174.94	Yes
E13S02-04 1222	544	57.65	183.09 179.39	180.59 176.89	0.0642	525	0.016	0.02270	1.82	0.12	1.093 1.088 1.066	0 0	180.63 176.98	No
E13S02-26 1220	538	14.40	183.30 183.09	180.80 180.59	0.0146	525	0.016	0.02260	1.04	0.16	0.521 0.519 0.496	0 0	180.89 180.68	No
E13S03-05 1218	536	121.31	187.36 183.30	184.86 180.80	0.0335	525	0.016	0.02160	1.39	0.13	0.789 0.786 0.764	0 0	184.86 180.89	No
E13S03-07 362	524	5.63	187.55 187.36	185.05 184.86	0.0338	225	0.016	0.00240	0.82	0.14	0.083 0.082 0.080	0 0	185.07 184.93	No
E13S03-07 324	521	12.07	188.17 187.55	185.67 185.05	0.0514	225	0.016	0.00070	0.75	0.08	0.102 0.102 0.101	0 0	185.68 185.08	No
E13S04-09 322	519	41.56	188.54 188.17	186.04 185.67	0.0088	225	0.016	0.00070	0.37	0.11	0.042 0.042 0.041	0 0	186.06 185.69	No
E14A13-21 1018	7	69.00	223.20 221.00	220.70 218.50	0.0319	200	0.016	0.00160	0.78	0.15	0.059 0.059 0.057	0 0	220.70 218.54	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E14A13-23 1016	503	74.00	225.49 223.20	222.99 220.70	0.0310	200	0.016	0.00160	0.77	0.15	0.058 0.058 0.056	0 0	223.02 220.73	No
E14A14-20 1022	529	65.00	221.00 220.59	218.50 218.09	0.0063	200	0.017	0.00170	0.42	0.21	0.026 0.026 0.024	0 0	218.52 218.13	No
E14S03-09 406	595	85.00	188.95 183.09	186.45 180.59	0.0690	225	0.015	0.00050	0.68	0.05	0.118 0.118 0.117	0 0	186.45 180.65	No
E14S14-21 1020	9	45.99	221.30 221.00	218.80 218.50	0.0065	200	0.016	0.00010	0.21	0.06	0.027 0.027 0.026	0 0	218.80 218.54	No
E15aS07-27 1192	533	54.96	216.09 215.20	213.59 212.70	0.0162	250	0.016	0.00110	0.50	0.10	0.076 0.076 0.075	0 0	213.61 212.74	No
E15aS07-29 1190	530	93.76	216.85 216.09	214.35 213.59	0.0081	250	0.016	0.00110	0.41	0.12	0.054 0.054 0.052	0 0	214.38 213.62	No
E15aS08-40 350	5	76.50	218.59 218.28	216.09 215.78	0.0041	250	0.017	0.00790	0.52	0.37	0.038 0.038 0.030	0 0	216.18 215.87	No
E15aS09-47 348	4	65.20	219.25 218.59	216.75 216.09	0.0101	250	0.017	0.00750	0.73	0.29	0.060 0.060 0.052	0 0	216.79 216.18	No
E15aS09-48 346	510	50.24	219.40 219.25	216.90 216.75	0.0030	250	0.017	0.00750	0.46	0.39	0.033 0.033 0.025	0 0	217.00 216.85	No
E15bS10-49 344	6	66.10	219.65 219.40	217.15 216.90	0.0038	200	0.017	0.00150	0.32	0.21	0.020 0.020 0.019	0 0	217.15 217.00	No
E15bS10-50 342	10	83.82	219.90 219.65	217.40 217.15	0.0030	200	0.017	0.00150	0.31	0.24	0.018 0.018 0.016	0 0	217.45 217.20	No
E15bS10-51 340	16	77.10	220.13 219.90	217.63 217.40	0.0030	200	0.017	0.00150	0.31	0.24	0.018 0.018 0.016	0 0	217.68 217.45	No
E15bS11-08 356	516	57.14	219.86 219.65	217.36 217.15	0.0037	200	0.016	0.00050	0.24	0.12	0.020 0.020 0.020	0 0	217.36 217.23	No
E15bS12-08 1028	522	90.05	220.05 219.65	217.55 217.15	0.0045	200	0.017	0.00440	0.47	0.37	0.022 0.022 0.018	0 0	217.60 217.23	No
E15bS13-10 1026	526	41.15	220.34 220.05	217.84 217.55	0.0070	200	0.017	0.00340	0.50	0.27	0.028 0.027 0.024	0 0	217.84 217.63	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E15bS13-11 1024	528	47.24	220.59 220.34	218.09 217.84	0.0053	200	0.017	0.00170	0.38	0.21	0.024 0.024 0.022	0 0	218.09 217.90	No
E15S03-07 420	607	112.80	192.76 182.90	190.26 180.40	0.0875	300	0.015	0.00050	0.79	0.04	0.287 0.286 0.285	0 0	190.27 180.47	No
E15S04-19 1204	592	41.00	201.91 196.72	199.41 194.22	0.1266	300	0.016	0.01770	2.24	0.18	0.345 0.344 0.326	0 0	199.47 194.28	No
E15S04-20 1202	586	79.20	210.36 201.91	207.86 199.41	0.1067	300	0.016	0.01770	2.06	0.18	0.317 0.316 0.298	0 0	207.89 199.47	No
E15S05-21 1200	570	80.20	212.42 210.36	209.92 207.86	0.0257	300	0.017	0.01770	1.24	0.26	0.155 0.155 0.137	0 0	210.00 207.94	No
E15S05-22 1198	548	14.30	212.99 212.42	210.49 209.92	0.0399	300	0.017	0.01770	1.47	0.24	0.194 0.193 0.175	0 0	210.53 210.00	No
E15S06-65 1196	546	150.20	214.77 212.99	212.27 210.49	0.0119	300	0.017	0.01660	0.94	0.33	0.106 0.105 0.089	0 0	212.37 210.59	No
E15S07-24 1188	515	172.42	215.82 214.77	213.32 212.27	0.0061	300	0.017	0.01240	0.68	0.33	0.076 0.075 0.063	0 0	213.38 212.37	No
E15S08-31 1186	494	110.60	220.19 215.82	217.69 213.32	0.0395	225	0.013	0.00000	0.06	0.00	0.090 0.089 0.089	0 0	217.69 213.42	No
E15S08-41 1184	476	100.60	225.71 220.19	223.21 217.69	0.0549	225	0.013	0.00000	0.06	0.00	0.106 0.105 0.105	0 0	223.21 217.69	No
E15S08aALL-38 364	534	80.20	218.51 217.33	216.01 214.83	0.0147	225	0.015	0.00010	0.31	0.05	0.055 0.054 0.054	0 0	216.01 214.85	No
E15S08ALL-35 1076	542	68.90	217.33 216.85	214.83 214.35	0.0070	225	0.016	0.00020	0.28	0.08	0.038 0.037 0.037	0 0	214.85 214.39	No
E15S08bALL-38 1074	555	80.20	217.69 217.33	215.19 214.83	0.0045	225	0.015	0.00010	0.17	0.05	0.030 0.030 0.030	0 0	215.19 214.85	No
E15S18-19 1564	582	58.42	222.54 222.31	220.04 219.81	0.0039	375	0.017	0.01320	0.58	0.28	0.110 0.110 0.097	0 0	220.04 219.94	No
E15S18-20 1562	579	91.08	222.80 222.54	220.30 220.04	0.0029	375	0.017	0.01320	0.51	0.29	0.094 0.094 0.080	0 0	220.41 220.15	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E15S18-21	49.17	222.99	220.49	0.0039	375	0.017	0.01030	0.53	0.24	0.109	0	220.49	No
1560	577	222.80	220.30							0.109	0	220.41	
										0.099			
E15SA08-33	63.10	218.28	215.78	0.0285	250	0.017	0.00790	1.04	0.22	0.101	0	215.81	No
352	12	216.48	213.98							0.100	0	214.08	
										0.092			
E16A08-29	25.73	229.32	226.82	0.0470	250	0.016	0.00610	1.17	0.17	0.129	0	226.84	No
1000	483	228.11	225.61							0.129	0	225.69	
										0.123			
E16A08-30	47.50	230.00	227.50	0.0143	250	0.017	0.00610	0.78	0.24	0.071	0	227.56	No
998	477	229.32	226.82							0.071	0	226.88	
										0.065			
E16A08-31	92.50	233.79	231.29	0.0410	250	0.017	0.00610	1.17	0.20	0.121	0	231.29	No
996	466	230.00	227.50							0.120	0	227.56	
										0.114			
E16A08-32	99.73	236.00	233.50	0.0222	250	0.017	0.00610	0.92	0.22	0.089	0	233.56	No
994	435	233.79	231.29							0.088	0	231.35	
										0.082			
E16A08-33	99.68	238.95	236.45	0.0296	250	0.017	0.00610	0.99	0.20	0.103	0	236.45	No
992	402	236.00	233.50							0.102	0	233.56	
										0.096			
E16A08-34	71.26	241.50	239.00	0.0358	250	0.017	0.00610	1.09	0.20	0.113	0	239.05	No
990	374	238.95	236.45							0.112	0	236.50	
										0.106			
E16A10-19	101.00	226.33	223.83	0.0220	250	0.016	0.00420	0.80	0.17	0.088	0	223.83	No
1673	527	224.11	221.61							0.088	0	221.67	
										0.084			
E16A10-20	99.33	228.93	226.43	0.0262	250	0.016	0.00420	0.87	0.17	0.097	0	226.47	No
1671	511	226.33	223.83							0.096	0	223.87	
										0.092			
E16A10-21	8.11	229.08	226.58	0.1196	250	0.013	0.00000	0.06	0.00	0.206	0	226.58	No
1541	485	228.11	225.61							0.205	0	225.69	
										0.205			
E16A12-18	104.30	224.11	221.61	0.0106	250	0.017	0.00420	0.63	0.22	0.061	0	221.64	No
1675	552	223.01	220.51							0.061	0	220.57	
										0.057			
E16A14-17	106.60	223.01	220.51	0.0066	250	0.017	0.00420	0.53	0.24	0.048	0	220.57	No
1677	584	222.31	219.81							0.048	0	219.87	
										0.044			
E16A16-05	86.90	219.92	217.42	0.0427	250	0.016	0.00430	1.02	0.15	0.123	0	217.44	No
1683	622	216.21	213.71							0.123	0	213.77	
										0.119			
E16A16-15	44.70	221.11	218.61	0.0267	250	0.016	0.00420	0.88	0.17	0.098	0	218.65	No
1681	599	219.92	217.42							0.097	0	217.46	
										0.093			

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
										Qexcess			
E16A16-16 1679	593	39.50	222.31 221.11	219.81 218.61	0.0304	250	0.016	0.00420	0.94	0.17	0	219.83 218.65	No
E16A17-03 1687	647	121.92	215.85 215.48	213.35 212.98	0.0030	350	0.017	0.00470	0.39	0.19	0	213.38 213.05	No
E16A17-04 1685	628	120.40	216.21 215.85	213.71 213.35	0.0030	350	0.017	0.00450	0.39	0.19	0	213.77 213.41	No
E16A18-02 1689	663	126.49	215.48 215.10	212.98 212.60	0.0030	350	0.017	0.00470	0.39	0.19	0	213.02 212.67	No
E16A19-01 1691	672	126.49	215.10 214.72	212.60 212.22	0.0030	350	0.017	0.00470	0.39	0.19	0	212.67 212.28	No
E16A19-05 1693	690	126.49	214.72 214.21	212.22 211.71	0.0040	350	0.016	0.00470	0.43	0.17	0	212.25 211.78	No
E16A20-05 550	695	29.60	214.46 214.21	211.96 211.71	0.0082	250	0.016	0.00020	0.30	0.07	0	211.98 211.78	No
E16A20-06 548	714	121.92	214.95 214.46	212.45 211.96	0.0040	250	0.016	0.00020	0.21	0.07	0	212.46 211.98	No
E16A20-07 546	730	110.87	215.19 214.95	212.69 212.45	0.0022	250	0.016	0.00020	0.16	0.07	0	212.71 212.46	No
E16A22-25 600	773	94.00	212.58 212.24	210.08 209.74	0.0036	250	0.016	0.00050	0.24	0.10	0	210.11 209.76	No
E16S03-05 426	620	78.07	189.01 182.78	186.51 180.28	0.0798	250	0.015	0.00060	0.73	0.05	0	186.51 180.36	No
E16S05-13 408	598	81.70	213.78 212.15	211.28 209.65	0.0200	200	0.016	0.00150	0.61	0.15	0	211.28 209.69	No
E16S06-30 384	587	107.73	215.10 214.54	212.60 212.04	0.0052	225	0.017	0.00300	0.44	0.24	0	212.63 212.11	No
E16S07-36 382	583	162.11	215.83 215.10	213.33 212.60	0.0045	200	0.017	0.00300	0.43	0.30	0	213.39 212.66	No
E16S08-45 1048	573	135.60	217.63 216.28	215.13 213.78	0.0100	225	0.017	0.00590	0.68	0.30	0	215.17 213.86	No

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Existing Pipes - Sorted by User's ID

UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge	
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn		
										Qexcess				
E16S09-01 1042	559	10.90	217.76 217.63	215.26 215.13	0.0118	250	0.017	0.00550	0.71	0.24	0.065 0.065 0.059	0 0	215.26 215.20	No
E16S09-04 1038	554	24.60	218.17 218.01	215.67 215.51	0.0067	250	0.017	0.00550	0.56	0.27	0.049 0.049 0.043	0 0	215.67 215.58	No
E16S09-05 1036	556	100.20	218.49 218.17	215.99 215.67	0.0031	250	0.017	0.00550	0.42	0.32	0.033 0.033 0.028	0 0	216.07 215.75	No
E16S09-06 1034	562	100.51	218.86 218.49	216.36 215.99	0.0037	250	0.017	0.00550	0.46	0.32	0.036 0.036 0.031	0 0	216.40 216.07	No
E16S09-19 1040	557	59.00	218.01 217.76	215.51 215.26	0.0042	250	0.017	0.00550	0.47	0.29	0.039 0.039 0.033	0 0	215.58 215.33	No
E16S12-07 400	569	76.48	219.09 218.86	216.59 216.36	0.0030	250	0.016	0.00070	0.25	0.12	0.033 0.033 0.032	0 0	216.60 216.44	No
E16S12-13 398	571	62.60	219.37 219.09	216.87 216.59	0.0046	250	0.016	0.00070	0.30	0.12	0.040 0.040 0.039	0 0	216.90 216.62	No
E16S14-14 396	572	11.90	219.48 219.37	216.98 216.87	0.0095	250	0.016	0.00070	0.38	0.10	0.058 0.058 0.057	0 0	216.98 216.90	No
E16S14-15 394	575	125.60	220.12 219.48	217.62 216.98	0.0051	250	0.016	0.00070	0.28	0.10	0.043 0.042 0.042	0 0	217.64 217.01	No
E16S14-16 392	578	125.00	220.77 220.12	218.27 217.62	0.0052	250	0.016	0.00070	0.28	0.10	0.043 0.043 0.042	0 0	218.29 217.65	No
E16S14-17 390	585	125.00	221.39 220.77	218.89 218.27	0.0050	250	0.016	0.00070	0.28	0.10	0.042 0.042 0.041	0 0	218.92 218.29	No
E16S18-12 1572	605	70.12	221.97 221.82	219.47 219.32	0.0021	450	0.017	0.01320	0.44	0.24	0.131 0.130 0.117	0 0	219.58 219.43	No
E16S18-16 1570	603	69.70	222.09 221.97	219.59 219.47	0.0017	450	0.017	0.01320	0.41	0.26	0.119 0.118 0.105	0 0	219.71 219.59	No
E16S19-12 1114	608	63.07	225.32 221.82	222.82 219.32	0.0555	300	0.016	0.00210	0.94	0.08	0.228 0.227 0.225	0 0	222.83 219.43	No
E16S19-13 1112	609	36.00	228.06 225.32	225.56 222.82	0.0761	300	0.016	0.00210	1.10	0.08	0.268 0.267 0.264	0 0	225.57 222.84	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E17S03-04 436	330	61.28	186.44 182.64	183.94 180.14	0.0620	225	0.015	0.00040	0.64	0.05	0.112 0.112 0.111	0 0	183.94 180.21	No
E17S04-04 1068	638	30.50	194.41 188.59	191.91 186.09	0.1907	300	0.017	0.02920	2.92	0.20	0.423 0.422 0.393	0 0	191.95 186.23	No
E17S04-07 1066	636	26.80	206.95 194.41	204.45 191.91	0.4680	200	0.017	0.02920	4.36	0.30	0.225 0.224 0.195	0 0	204.51 191.97	No
E17S04-08 1064	635	53.07	211.08 206.95	208.58 204.45	0.0778	300	0.017	0.02920	2.15	0.26	0.270 0.269 0.240	0 0	208.66 204.53	No
E17S05-10 1060	625	139.91	213.72 211.44	211.22 208.94	0.0163	300	0.017	0.02400	1.14	0.35	0.124 0.123 0.099	0 0	211.28 209.07	No
E17S06-27 1058	328	137.81	214.53 213.72	212.03 211.22	0.0059	300	0.017	0.01910	0.75	0.41	0.074 0.074 0.055	0 0	212.15 211.34	No
E17S07-31 1056	321	140.51	215.18 214.53	212.68 212.03	0.0046	300	0.017	0.01480	0.65	0.39	0.066 0.066 0.051	0 0	212.74 212.15	No
E17S08-38 1054	618	13.04	215.13 215.18	212.63 212.68	-0.0042	300	0.000	0.01100	0.16	1.00	0.000 0.000 0.000	0 0	212.80 212.80	No
E17S08-44 450	616	132.53	216.35 215.13	213.85 212.63	0.0092	225	0.017	0.00400	0.59	0.24	0.043 0.043 0.039	0 0	213.85 212.80	No
E17S15-05 1086	621	76.20	217.38 216.21	214.88 213.71	0.0155	250	0.014	0.00000	0.22	0.02	0.074 0.074 0.074	0 0	214.89 213.77	No
E17S16-05 444	319	132.60	216.65 216.21	214.15 213.71	0.0034	300	0.016	0.00020	0.20	0.06	0.056 0.056 0.056	0 0	214.16 213.77	No
E17S16-07 442	323	131.70	217.05 216.65	214.55 214.15	0.0030	300	0.016	0.00020	0.18	0.06	0.053 0.053 0.053	0 0	214.57 214.17	No
E17S18-08 440	326	100.60	217.48 217.05	214.98 214.55	0.0043	250	0.015	0.00010	0.17	0.05	0.039 0.039 0.039	0 0	214.98 214.57	No
E17S19-07 1582	630	110.00	219.89 219.62	217.39 217.12	0.0024	450	0.017	0.01510	0.49	0.26	0.141 0.141 0.126	0 0	217.51 217.24	No
E17S19-08 1580	627	106.07	220.32 219.89	217.82 217.39	0.0041	450	0.017	0.01500	0.60	0.23	0.183 0.182 0.167	0 0	217.89 217.51	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E17S19-09 438	331	106.70	218.76 217.48	216.26 214.98	0.0120	250	0.015	0.00010	0.28	0.05	0.065 0.065 0.065	0 0	216.27 214.99	No
E18A10-23 1556	545	71.18	226.09 225.67	223.59 223.17	0.0059	375	0.017	0.01030	0.61	0.21	0.135 0.135 0.124	0 0	223.67 223.25	No
E18A16-08 428	324	117.30	217.84 217.05	215.34 214.55	0.0067	250	0.015	0.00010	0.21	0.05	0.049 0.049 0.049	0 0	215.35 214.57	No
E18A16-22 1558	576	92.33	225.67 222.99	223.17 220.49	0.0290	375	0.016	0.01030	1.10	0.15	0.300 0.298 0.288	0 0	223.20 220.58	No
E18A22-14 586	784	74.00	211.10 210.49	208.60 207.99	0.0082	300	0.015	0.00010	0.24	0.04	0.088 0.087 0.087	0 0	208.60 208.27	No
E18A22-15 584	770	82.00	212.32 211.10	209.82 208.60	0.0149	300	0.014	0.00010	0.22	0.02	0.118 0.118 0.118	0 0	209.82 208.61	No
E18A22-16 582	762	97.00	214.01 212.32	211.51 209.82	0.0174	300	0.014	0.00010	0.24	0.02	0.128 0.128 0.127	0 0	211.52 209.83	No
E18A23-10 1616	809	129.90	207.43 203.77	204.93 201.27	0.0282	600	0.017	0.19280	2.35	0.34	1.033 1.029 0.836	0 0	205.13 201.48	No
E18A23-11 1614	798	130.10	209.48 207.43	206.98 204.93	0.0158	600	0.017	0.19280	1.93	0.40	0.773 0.770 0.577	0 0	207.22 205.17	No
E18A23-12 1612	793	126.90	210.49 209.48	207.99 206.98	0.0080	600	0.016	0.19280	1.50	0.47	0.550 0.548 0.355	0 0	208.27 207.26	No
E18A23-6 1626	828	40.00	192.82 192.39	190.32 189.89	0.0106	600	0.016	0.25740	1.82	0.51	0.635 0.632 0.375	0 0	190.62 190.20	No
E18A23-7 1624	825	118.00	194.07 192.82	191.57 190.32	0.0106	600	0.016	0.19280	1.67	0.44	0.635 0.632 0.439	0 0	191.75 190.62	No
E18A23-8 1622	815	115.00	195.74 194.07	193.24 191.57	0.0145	600	0.017	0.19280	1.85	0.40	0.742 0.739 0.546	0 0	193.24 191.83	No
E18A23-9 1620	297	122.60	198.92 195.74	196.42 193.24	0.0259	600	0.017	0.19280	2.29	0.35	0.991 0.987 0.794	0 0	196.56 193.48	No
E18A23-9a 1618	288	134.20	203.77 198.92	201.27 196.42	0.0362	600	0.017	0.19280	2.57	0.32	1.172 1.167 0.974	0 0	201.46 196.62	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E18aS05-17 476	668	76.20	213.21 212.48	210.71 209.98	0.0096	200	0.016	0.00030	0.32	0.09	0.032 0.032 0.032	0 0	210.73 210.05	No
E18S02-01 1736	657	13.21	177.98 176.22	175.48 173.72	0.1332	375	0.016	0.03430	2.64	0.18	0.642 0.639 0.605	0 0	175.48 174.23	No
E18S02-05 1244	652	45.36	181.54 178.99	179.04 176.49	0.0561	375	0.017	0.03430	1.95	0.23	0.417 0.415 0.381	0 0	179.12 176.58	No
E18S03-01 1072	650	50.29	188.09 181.54	185.59 179.04	0.1303	350	0.017	0.03000	2.59	0.19	0.528 0.526 0.496	0 0	185.59 179.12	No
E18S05-16 482	660	137.50	213.18 212.29	210.68 209.79	0.0064	200	0.017	0.00270	0.48	0.27	0.026 0.026 0.024	0 0	210.73 209.87	No
E18S06-23 466	656	112.80	216.20 213.18	213.70 210.68	0.0268	200	0.016	0.00060	0.53	0.09	0.054 0.054 0.053	0 0	213.70 210.73	No
E18S08-40 452	643	75.60	217.65 216.77	215.15 214.27	0.0115	200	0.017	0.00290	0.60	0.24	0.035 0.035 0.032	0 0	215.20 214.32	No
E19A15-17 1568	601	36.63	222.24 222.09	219.74 219.59	0.0041	450	0.017	0.01320	0.58	0.22	0.183 0.182 0.169	0 0	219.74 219.71	No
E19A15-18 1566	596	52.24	222.31 222.24	219.81 219.74	0.0013	450	0.017	0.01320	0.39	0.28	0.105 0.104 0.091	0 0	219.94 219.87	No
E19A16-09 1578	333	87.75	221.64 220.32	219.14 217.82	0.0150	450	0.016	0.01500	0.95	0.16	0.350 0.349 0.334	0 0	219.19 217.93	No
E19A16-10 1576	624	43.16	221.70 221.64	219.20 219.14	0.0013	450	0.017	0.01500	0.39	0.30	0.102 0.102 0.087	0 0	219.33 219.28	No
E19A16-11 1574	614	30.43	221.82 221.70	219.32 219.20	0.0041	450	0.017	0.01500	0.60	0.23	0.184 0.183 0.168	0 0	219.38 219.33	No
E19S05-18 494	676	77.70	213.96 212.95	211.46 210.45	0.0130	200	0.016	0.00020	0.37	0.09	0.038 0.037 0.037	0 0	211.46 210.51	No
E19S06-07 484	673	78.60	216.68 214.87	214.18 212.37	0.0231	200	0.016	0.00210	0.73	0.18	0.050 0.050 0.048	0 0	214.18 212.43	No
E20A15-14 1110	610	90.04	228.65 228.06	226.15 225.56	0.0066	300	0.016	0.00210	0.45	0.14	0.079 0.078 0.076	0 0	226.19 225.60	No

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E20A17-05 1586	661	121.24	218.89 218.89	216.39 216.39	0.0000	600	0.000	0.01510	0.06	1.00	0.000 0.000 0.000	0 0	216.68 216.68	No
E20A17-06 1584	646	103.50	219.62 218.89	217.12 216.39	0.0071	450	0.017	0.01510	0.74	0.20	0.241 0.240 0.225	0 0	217.17 216.68	No
E20A18-01 1596	712	98.41	217.40 217.02	214.90 214.52	0.0039	600	0.016	0.15950	1.11	0.52	0.383 0.381 0.222	0 0	215.21 214.83	No
E20A18-02 1594	697	98.70	217.85 217.40	215.35 214.90	0.0046	600	0.016	0.15950	1.17	0.49	0.417 0.416 0.256	0 0	215.35 215.21	No
E20A18-03 1592	678	103.50	218.43 217.85	215.93 215.35	0.0055	600	0.016	0.15950	1.25	0.47	0.458 0.456 0.297	0 0	216.12 215.65	No
E20A18-04 1588	1784	34.68	220.43 220.30	216.39 216.31	0.0023	600	0.016	0.01510	0.47	0.17	0.296 0.295 0.279	0 0	216.68 216.68	No
E20A18-04 1590	669	99.50	218.89 218.43	216.39 215.93	0.0047	600	0.016	0.15950	1.18	0.49	0.421 0.419 0.259	0 0	216.68 216.22	No
E20A20-20 1604	790	125.60	215.15 213.45	212.65 210.95	0.0136	600	0.017	0.16150	1.74	0.38	0.717 0.714 0.553	0 0	212.81 211.20	No
E20A20-21 1602	771	123.00	215.69 215.15	213.19 212.65	0.0044	600	0.016	0.16150	1.15	0.50	0.407 0.405 0.244	0 0	213.49 212.95	No
E20A20-22 1600	757	122.40	216.26 215.69	213.76 213.19	0.0046	600	0.016	0.16150	1.18	0.50	0.418 0.416 0.255	0 0	213.96 213.49	No
E20A20-23 1598	732	128.90	217.02 216.26	214.52 213.76	0.0059	600	0.016	0.16150	1.28	0.46	0.474 0.473 0.311	0 0	214.52 214.05	No
E20S05-04 504	710	134.10	214.23 213.59	211.73 211.09	0.0047	200	0.017	0.00500	0.49	0.37	0.023 0.023 0.018	0 0	211.73 211.17	No
E20S06-05 502	705	68.00	215.65 214.23	213.15 211.73	0.0209	200	0.017	0.00300	0.76	0.21	0.048 0.047 0.044	0 0	213.17 211.80	No
E20S06-09 500	702	76.62	215.96 215.65	213.46 213.15	0.0041	200	0.017	0.00300	0.41	0.30	0.021 0.021 0.018	0 0	213.52 213.21	No
E20S07-23 514	694	50.25	216.29 215.56	213.79 213.06	0.0146	200	0.016	0.00050	0.39	0.09	0.040 0.040 0.039	0 0	213.79 213.11	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E20S08-37 512	688	97.50	215.33 212.62	212.83 210.12	0.0278	200	0.016	0.00080	0.65	0.12	0.055 0.055 0.054	0 0	212.83 210.20	No
E20S09-37 1703	681	81.00	213.03 212.67	210.53 210.17	0.0044	400	0.016	0.00510	0.46	0.15	0.139 0.138 0.133	0 0	210.57 210.25	No
E20S10-01 1701	680	73.70	213.25 213.03	210.75 210.53	0.0030	400	0.016	0.00510	0.40	0.17	0.115 0.114 0.109	0 0	210.82 210.60	No
E20S11-02 1699	683	97.30	213.53 213.25	211.03 210.75	0.0028	400	0.016	0.00510	0.39	0.17	0.111 0.111 0.106	0 0	211.10 210.82	No
E20S12-03 1697	686	106.70	213.84 213.53	211.34 211.03	0.0029	400	0.016	0.00510	0.39	0.17	0.113 0.113 0.107	0 0	211.38 211.10	No
E20S14-04 1695	689	126.03	214.21 213.84	211.71 211.34	0.0030	400	0.016	0.00510	0.40	0.17	0.114 0.113 0.108	0 0	211.78 211.41	No
E20S16-05 1148	693	79.25	214.39 214.21	211.89 211.71	0.0023	350	0.015	0.00020	0.16	0.05	0.070 0.069 0.069	0 0	211.91 211.78	No
E20S16-09 1146	696	106.99	214.78 214.39	212.28 211.89	0.0036	350	0.015	0.00020	0.16	0.03	0.088 0.088 0.088	0 0	212.29 211.91	No
E20S16-10 1144	700	153.31	215.18 214.78	212.68 212.28	0.0026	350	0.015	0.00020	0.17	0.05	0.075 0.075 0.074	0 0	212.70 212.30	No
E20S18-11 1142	701	93.27	215.41 215.18	212.91 212.68	0.0024	350	0.015	0.00020	0.17	0.05	0.072 0.072 0.072	0 0	212.93 212.70	No
E20S18-12 1140	706	87.78	215.60 215.41	213.10 212.91	0.0022	350	0.015	0.00020	0.16	0.05	0.069 0.069 0.068	0 0	213.12 212.93	No
E20S19-13 1138	707	149.05	216.67 215.60	214.17 213.10	0.0072	300	0.015	0.00020	0.23	0.04	0.082 0.082 0.082	0 0	214.17 213.12	No
E20S19-14 1136	711	151.65	217.41 216.67	214.91 214.17	0.0048	300	0.015	0.00010	0.18	0.04	0.067 0.067 0.067	0 0	214.92 214.19	No
E20S20-01 544	713	15.24	217.84 217.02	215.34 214.52	0.0538	300	0.016	0.00340	1.06	0.10	0.225 0.224 0.221	0 0	215.36 214.79	No
E20S20-29a 542	717	106.07	219.82 217.84	217.32 215.34	0.0187	300	0.016	0.00340	0.70	0.12	0.133 0.132 0.129	0 0	217.36 215.38	No

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E20S20-30 540	720	137.16	221.20 219.82	218.70 217.32	0.0101	300	0.016	0.00340	0.59	0.16	0.097 0.097 0.094	0 0	218.75 217.37	No
E20S20-31 538	725	117.96	221.46 221.20	218.96 218.70	0.0022	300	0.017	0.00340	0.33	0.22	0.046 0.045 0.042	0 0	219.03 218.77	No
E21AS08-19 558	743	88.00	212.43 212.16	209.93 209.66	0.0031	250	0.016	0.00050	0.22	0.10	0.033 0.033 0.032	0 0	209.93 209.78	No
E21S03-03 1727	748	21.90	177.64 177.58	175.14 175.08	0.0027	200	0.013	0.03910	1.24	1.00	0.017 0.017 -0.022	300 250	176.48 176.44	Yes
E21S03-04 1725	746	88.40	208.52 177.64	206.02 175.14	0.3493	200	0.017	0.03910	4.18	0.37	0.194 0.194 0.155	0 0	206.09 176.48	Yes
E21S03-05 1721	741	32.76	210.50 209.86	208.00 207.36	0.0194	450	0.017	0.03910	1.35	0.24	0.398 0.397 0.358	0 0	208.11 207.47	No
E21S03-25 1723	742	3.00	209.86 208.52	207.36 206.02	0.4467	450	0.016	0.03910	4.47	0.12	1.911 1.903 1.864	0 0	207.39 206.09	No
E21S05-01 1719	738	84.10	210.75 210.50	208.25 208.00	0.0030	450	0.017	0.03450	0.67	0.37	0.158 0.157 0.123	0 0	208.42 208.16	No
E21S06-13 1717	734	140.20	210.98 210.75	208.48 208.25	0.0017	450	0.016	0.03230	0.53	0.42	0.116 0.116 0.083	0 0	208.67 208.44	No
E21S07-14 1715	729	141.63	211.60 210.98	209.10 208.48	0.0043	450	0.017	0.02950	0.73	0.31	0.188 0.188 0.158	0 0	209.10 208.67	No
E21S08-18 1713	724	135.30	211.96 211.60	209.46 209.10	0.0027	450	0.017	0.01280	0.49	0.23	0.149 0.148 0.135	0 0	209.52 209.24	No
E23S08-51 1096	781	100.00	214.60 214.55	212.10 212.05	0.0005	250	0.014	0.01220	0.28	0.85	0.013 0.013 0.001	0 0	212.31 212.26	No
E23S08-52 1094	775	102.05	214.68 214.65	212.18 212.15	0.0003	250	0.013	0.01220	0.25	1.00	0.010 0.010 -0.002	300 150	212.44 212.40	Yes
E23S16-14 608	783	85.05	211.17 210.49	208.67 207.99	0.0080	300	0.016	0.00050	0.30	0.06	0.087 0.086 0.086	0 0	208.68 208.27	No
E23S16-26 602	774	110.00	212.24 211.91	209.74 209.41	0.0030	250	0.016	0.00050	0.22	0.10	0.033 0.033 0.032	0 0	209.76 209.43	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
E23S16-27 604	777	35.29	211.91 211.44	209.41 208.94	0.0132	250	0.016	0.00050	0.38	0.07	0.069 0.068 0.068	0 0	209.42 208.97	No
E23S16-28 606	779	74.00	211.44 211.17	208.94 208.67	0.0037	250	0.016	0.00050	0.24	0.10	0.036 0.036 0.036	0 0	208.97 208.70	No
E23S18-14 1610	786	134.90	211.48 210.49	208.98 207.99	0.0073	600	0.016	0.16150	1.38	0.44	0.525 0.523 0.362	0 0	209.15 208.27	No
E23S18-18 1608	787	136.50	212.35 211.48	209.85 208.98	0.0064	600	0.016	0.16150	1.33	0.46	0.492 0.490 0.328	0 0	210.12 209.25	No
E23S18-19 1606	789	124.00	213.45 212.35	210.95 209.85	0.0089	600	0.016	0.16150	1.49	0.42	0.581 0.579 0.417	0 0	210.95 210.12	No
E25aS08-24 628	279	71.00	208.93 208.33	206.43 205.83	0.0085	200	0.017	0.00200	0.48	0.21	0.030 0.030 0.028	0 0	206.47 205.89	No
E25S07-31 614	803	126.24	214.92 214.42	212.42 211.92	0.0039	200	0.017	0.00250	0.38	0.27	0.021 0.021 0.018	0 0	212.48 211.98	No
E26S07-37 632	280	30.30	214.82 214.60	212.32 212.10	0.0073	200	0.017	0.00160	0.45	0.21	0.028 0.028 0.026	0 0	212.36 212.14	No
E26S08-18 662	285	60.20	206.72 205.64	204.22 203.14	0.0179	200	0.016	0.00040	0.44	0.09	0.044 0.044 0.044	0 0	204.23 203.21	No
E27S08-11 682	812	57.38	202.92 199.52	200.42 197.02	0.0593	200	0.017	0.00740	1.37	0.24	0.080 0.080 0.072	0 0	200.45 197.08	No
E27S08-23 680	307	57.38	203.45 202.92	200.95 200.42	0.0092	200	0.017	0.00670	0.68	0.37	0.032 0.032 0.025	0 0	201.02 200.49	No
E28S03-01 1646	303	43.70	186.93 186.83	184.43 184.33	0.0022	900	0.016	0.25770	1.00	0.43	0.855 0.852 0.594	0 0	186.84 186.83	Yes
E28S03-02 694	814	127.97	189.34 188.37	186.84 185.87	0.0076	250	0.016	0.01550	0.79	0.44	0.052 0.052 0.036	0 0	187.11 187.10	Yes
E28S03-03 1644	813	95.45	187.13 186.93	184.63 184.43	0.0021	900	0.016	0.25770	0.98	0.43	0.839 0.836 0.578	0 0	186.84 186.84	Yes
E28S03-04 1642	819	114.40	187.39 187.13	184.89 184.63	0.0023	900	0.016	0.25770	1.00	0.43	0.862 0.859 0.601	0 0	186.85 186.84	Yes

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E28S03-07 1640	823	30.67	187.48 187.39	184.98 184.89	0.0029	900	0.017	0.25770	1.09	0.40	0.978 0.974 0.717	0 0	186.86 186.85	Yes
E28S03-23 696	300	22.16	188.37 187.09	185.87 184.59	0.0578	250	0.017	0.01550	1.66	0.27	0.143 0.143 0.127	0 0	187.10 187.09	Yes
E28S07-01 1638	826	133.30	187.80 187.48	185.30 184.98	0.0024	900	0.016	0.25780	1.02	0.42	0.888 0.885 0.627	0 0	186.86 186.86	Yes
E28S07-02 1636	827	126.70	188.05 187.80	185.55 185.30	0.0020	900	0.016	0.25780	0.96	0.45	0.811 0.808 0.550	0 0	186.89 186.86	Yes
E28S07-06 692	818	109.68	190.36 189.34	187.86 186.84	0.0093	250	0.016	0.01550	0.85	0.41	0.058 0.057 0.042	0 0	187.86 187.11	No
E28S07-07 690	820	84.00	191.48 190.36	188.98 187.86	0.0133	250	0.017	0.01550	0.98	0.39	0.069 0.069 0.053	0 0	189.04 187.96	No
E28S08-08 688	822	105.50	201.43 191.48	198.93 188.98	0.0944	200	0.016	0.00090	1.00	0.09	0.101 0.101 0.100	0 0	198.93 189.08	No
E28S08-09 686	817	70.60	203.65 201.43	201.15 198.93	0.0314	200	0.016	0.00090	0.69	0.12	0.058 0.058 0.057	0 0	201.17 198.96	No
E29S17-03 1634	831	37.20	188.18 188.05	185.68 185.55	0.0036	900	0.017	0.25780	1.18	0.38	1.094 1.089 0.832	0 0	186.89 186.89	Yes
E29S17-04 1632	832	46.00	189.21 188.18	186.71 185.68	0.0222	600	0.016	0.25740	2.35	0.42	0.917 0.914 0.656	0 0	186.97 186.89	Yes
E29S17-05 1630	830	69.40	191.66 189.21	189.16 186.71	0.0353	600	0.017	0.25740	2.76	0.37	1.157 1.152 0.895	0 0	189.31 186.97	No
E29S17-5a 1628	829	69.25	192.39 191.66	189.89 189.16	0.0107	600	0.016	0.25740	1.82	0.51	0.636 0.633 0.376	0 0	190.20 189.46	No
E32S03-X2 704	841	116.46	180.89 180.22	178.39 177.72	0.0057	200	0.016	0.00060	0.29	0.12	0.025 0.025 0.024	0 0	178.41 177.75	No
E32S03-X3 702	839	218.40	181.96 180.89	179.46 178.39	0.0049	200	0.016	0.00060	0.31	0.15	0.023 0.023 0.022	0 0	179.49 178.42	No
E32S03-XX 706	843	23.46	180.22 179.93	177.72 177.43	0.0125	200	0.016	0.00060	0.44	0.12	0.037 0.037 0.036	0 0	177.75 177.45	No

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UserID	Length	Ground	Invert	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull	NewDiam	HGL	Surcharge
SEQ	G_ID	Up/Dn	Up/Dn							Qmax	ParDiam	Up/Dn	
											Qexcess		
E5AA08-18 132	55.24 259	191.72 189.36	189.22 186.86	0.0427	225	0.015	0.00040	0.53	0.05	0.093 0.093 0.092	0 0	189.22 186.88	No
E5AA08-18 142	34.56 264	189.68 189.36	187.18 186.86	0.0094	225	0.016	0.00050	0.38	0.11	0.044 0.043 0.043	0 0	187.19 186.88	No
E7SA05-117 1250	91.38 225	217.03 215.48	214.53 212.98	0.0169	250	0.016	0.00190	0.59	0.12	0.078 0.077 0.075	0 0	214.56 213.01	No
E8S08-48 962	121.89 262	241.34 228.88	238.84 226.38	0.1022	250	0.016	0.00690	1.58	0.15	0.191 0.190 0.183	0 0	238.84 226.43	No
EBSRD32-01 734	79.11 824	187.64 187.36	185.14 184.86	0.0035	350	0.015	0.00010	0.16	0.03	0.087 0.087 0.087	0 0	187.09 187.09	Yes
EBSRD32-02 732	98.23 833	187.91 187.64	185.41 185.14	0.0028	350	0.015	0.00010	0.14	0.03	0.077 0.076 0.076	0 0	187.09 187.09	Yes
EBSRD32-03 730	69.05 834	188.11 187.91	185.61 185.41	0.0029	350	0.015	0.00010	0.15	0.03	0.079 0.078 0.078	0 0	187.09 187.09	Yes
EBSRD32-12 716	64.69 846	178.19 177.94	175.69 175.44	0.0039	250	0.017	0.00610	0.47	0.32	0.037 0.037 0.031	0 0	175.77 175.52	No
EBSRD32-13 714	109.32 847	178.38 178.19	175.88 175.69	0.0017	250	0.017	0.00610	0.35	0.39	0.025 0.025 0.019	0 0	175.98 175.79	No
EBSRD32-14 712	120.30 848	178.64 178.38	176.14 175.88	0.0022	250	0.017	0.00610	0.38	0.37	0.028 0.028 0.022	0 0	176.14 175.98	No
EBSRD32-15 710	84.55 849	178.94 178.64	176.44 176.14	0.0036	250	0.017	0.00610	0.47	0.34	0.036 0.035 0.029	0 0	176.49 176.23	No
EBSRD32-16 708	78.68 850	179.25 178.94	176.75 176.44	0.0039	250	0.017	0.00610	0.48	0.32	0.037 0.037 0.031	0 0	176.75 176.53	No
EBSRD32-23 736	144.64 816	187.36 187.09	184.86 184.59	0.0019	350	0.015	0.00010	0.12	0.03	0.064 0.063 0.063	0 0	187.09 187.09	Yes
EE06A04-5 14	55.23 92	212.29 212.16	209.79 209.66	0.0023	300	0.016	0.00110	0.25	0.12	0.047 0.047 0.045	0 0	209.83 209.83	No
EHARPARC-105 1130	57.04 405	241.05 238.80	238.55 236.30	0.0395	200	0.016	0.00170	0.86	0.15	0.065 0.065 0.063	0 0	238.57 236.33	No

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
EHARPARC-106 1128	410	19.50	241.51 241.05	239.01 238.55	0.0235	200	0.016	0.00170	0.67	0.15	0.050 0.050 0.049	0 0	239.04 238.58	No
EHARPARC-107 1126	409	30.00	241.69 241.51	239.19 239.01	0.0060	200	0.017	0.00170	0.41	0.21	0.026 0.025 0.024	0 0	239.23 239.05	No
EHARPARC-108 1124	407	96.94	242.23 241.69	239.73 239.19	0.0056	200	0.017	0.00170	0.39	0.21	0.025 0.025 0.023	0 0	239.77 239.23	No
EHARPARC-109 1122	378	81.95	243.19 242.23	240.69 239.73	0.0117	200	0.016	0.00170	0.52	0.18	0.036 0.036 0.034	0 0	240.71 239.77	No
EHARPARKC-110 1120	357	100.00	244.80 243.19	242.30 240.69	0.0161	200	0.016	0.00170	0.61	0.18	0.042 0.042 0.040	0 0	242.34 240.73	No
ELAMSON 1454	420	47.60	242.97 242.02	240.47 239.52	0.0199	200	0.016	0.00050	0.46	0.09	0.046 0.046 0.046	0 0	240.47 239.55	No
ELAMSON-69 1458	464	39.90	237.32 232.45	234.82 229.95	0.1221	200	0.016	0.00310	1.52	0.15	0.115 0.115 0.111	0 0	234.84 230.00	No
ELAMSON-70 246	450	84.88	238.49 237.32	235.99 234.82	0.0137	220	0.016	0.00050	0.39	0.08	0.050 0.049 0.049	0 0	235.99 234.85	No
ELAMSON-70 1456	444	96.00	242.02 237.32	239.52 234.82	0.0489	200	0.016	0.00200	0.96	0.15	0.073 0.073 0.071	0 0	239.55 234.85	No
ELAMSON-75 236	423	17.40	243.66 242.97	241.16 240.47	0.0399	200	0.016	0.00020	0.51	0.06	0.066 0.066 0.065	0 0	241.16 240.48	No
ELAMSON-77 1160	468	40.74	238.47 233.82	235.97 231.32	0.1143	200	0.013	0.00000	0.06	0.00	0.111 0.111 0.111	0 0	235.97 231.35	No
ELAMSON-79 244	451	123.80	243.90 238.49	241.40 235.99	0.0438	200	0.016	0.00050	0.68	0.09	0.069 0.069 0.068	0 0	241.42 236.00	No
ELAURIE-71 1451	419	64.30	242.36 242.02	239.86 239.52	0.0053	200	0.016	0.00060	0.32	0.15	0.024 0.024 0.023	0 0	239.89 239.55	No
ELAURIE-72 1449	415	47.78	243.55 242.36	241.05 239.86	0.0248	200	0.016	0.00060	0.52	0.09	0.052 0.052 0.051	0 0	241.06 239.89	No
ELAURIE-73 1447	403	112.20	245.20 243.55	242.70 241.05	0.0147	200	0.016	0.00060	0.47	0.12	0.040 0.040 0.039	0 0	242.72 241.07	No

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Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
ELAURIE-75 1452	421	47.90	245.20 242.97	242.70 240.47	0.0466	200	0.016	0.00030	0.55	0.06	0.071 0.071 0.070	0 0	242.70 240.48	No
ESYDCRES-3 872	94	33.50	184.89 184.72	182.39 182.22	0.0052	150	0.017	0.00180	0.39	0.33	0.011 0.011 0.009	0 0	184.13 184.13	No
EVICTORIA 252	473	56.67	213.67 213.39	211.17 210.89	0.0048	250	0.014	0.00000	0.12	0.02	0.042 0.041 0.041	0 0	211.17 210.90	No
EVICTORIA 250	470	71.69	214.03 213.67	211.53 211.17	0.0050	250	0.014	0.00000	0.12	0.02	0.042 0.042 0.042	0 0	211.53 211.17	No
EVICTORIA-25 256	439	99.00	213.12 211.13	210.62 208.63	0.0201	300	0.014	0.00000	0.25	0.02	0.137 0.137 0.137	0 0	210.62 208.70	No
EVICTORIA-93 254	472	91.96	213.39 213.12	210.89 210.62	0.0030	300	0.014	0.00000	0.10	0.02	0.053 0.053 0.053	0 0	210.90 210.62	No
HOSPITAL471 258	471	75.77	231.09 230.58	228.59 228.08	0.0066	200	0.016	0.00110	0.39	0.18	0.027 0.027 0.026	0 0	228.62 228.12	No
HOSPITAL491 262	491	90.03	229.91 228.27	227.41 225.77	0.0182	200	0.016	0.00110	0.53	0.12	0.044 0.044 0.043	0 0	227.43 225.81	No
HOSPITAL492 260	492	118.08	230.58 229.91	228.08 227.41	0.0057	200	0.016	0.00110	0.36	0.18	0.025 0.025 0.024	0 0	228.12 227.45	No
P_I758 580	758	148.34	174.70 174.10	172.20 171.60	0.0040	1000	0.013	0.00000	0.06	0.00	1.520 1.514 1.514	0 0	211.52 211.52	No
P17 320	17	127.72	189.20 188.54	186.70 186.04	0.0052	225	0.016	0.00070	0.28	0.11	0.032 0.032 0.032	0 0	186.72 186.06	No
P206 70	206	31.36	235.78 235.45	233.28 232.95	0.0104	200	0.015	0.00000	0.18	0.03	0.034 0.033 0.033	0 0	233.28 232.96	No
P214 72	214	20.25	235.45 235.16	232.95 232.66	0.0145	225	0.015	0.00000	0.21	0.03	0.054 0.054 0.054	0 0	232.95 232.70	No
P427 242	427	48.73	215.16 214.75	212.66 212.25	0.0084	300	0.016	0.00070	0.37	0.08	0.089 0.088 0.088	0 0	212.67 212.34	No
P449 240	449	187.55	215.87 215.16	213.37 212.66	0.0038	300	0.016	0.00070	0.25	0.08	0.060 0.060 0.059	0 0	213.39 212.68	No

Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
P512 318	512	74.62	189.69 189.20	187.19 186.70	0.0067	200	0.016	0.00070	0.32	0.12	0.027 0.027 0.026	0 0	187.22 186.72	No
P721 568	721	7.50	212.19 211.96	209.69 209.46	0.0307	200	0.016	0.00230	0.84	0.18	0.058 0.057 0.055	0 0	209.69 209.57	No
P722 566	722	14.15	212.45 212.19	209.95 209.69	0.0182	200	0.016	0.00230	0.65	0.18	0.044 0.044 0.042	0 0	209.99 209.73	No
P736 564	736	116.04	213.12 212.45	210.62 209.95	0.0057	200	0.017	0.00230	0.43	0.24	0.025 0.025 0.023	0 0	210.66 210.00	No
P739 552	739	65.70	213.58 211.67	211.08 209.17	0.0290	200	0.016	0.00090	0.66	0.12	0.056 0.056 0.055	0 0	211.08 209.20	No
P744 562	744	48.29	213.51 213.12	211.01 210.62	0.0081	200	0.017	0.00230	0.47	0.21	0.030 0.030 0.027	0 0	211.01 210.66	No
P745 560	745	67.94	215.32 213.51	212.82 211.01	0.0267	200	0.016	0.00230	0.79	0.18	0.054 0.054 0.051	0 0	212.82 211.05	No
P749 570	749	17.48	211.88 211.61	209.38 209.11	0.0154	200	0.016	0.00030	0.41	0.09	0.041 0.041 0.040	0 0	209.38 209.14	No
P750 554	750	44.11	211.67 211.30	209.17 208.80	0.0085	200	0.016	0.00090	0.40	0.15	0.030 0.030 0.029	0 0	209.20 208.83	No
P753 556	753	22.00	211.30 211.01	208.80 208.51	0.0131	200	0.016	0.00090	0.45	0.12	0.038 0.038 0.037	0 0	208.80 208.57	No
P754 576	754	26.31	211.92 211.61	209.42 209.11	0.0116	200	0.016	0.00060	0.42	0.12	0.035 0.035 0.035	0 0	209.42 209.14	No
P755 572	755	45.07	212.30 211.92	209.80 209.42	0.0084	200	0.016	0.00010	0.24	0.06	0.030 0.030 0.030	0 0	209.80 209.44	No
P756 574	756	33.28	212.25 211.92	209.75 209.42	0.0100	200	0.016	0.00050	0.39	0.12	0.033 0.033 0.032	0 0	209.78 209.44	No
P760 578	760	70.82	211.61 211.13	209.11 208.63	0.0068	200	0.016	0.00100	0.36	0.15	0.027 0.027 0.026	0 0	209.13 208.68	No
P764 590	764	82.75	211.82 211.29	209.32 208.79	0.0064	200	0.016	0.00050	0.31	0.12	0.026 0.026 0.026	0 0	209.32 208.83	No

Existing Pipes - Sorted by User's ID

UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surchge
P765 588	765	40.44	212.18 211.82	209.68 209.32	0.0090	200	0.016	0.00050	0.37	0.12	0.031 0.031 0.031	0 0	209.71 209.35	No
PLANT_INLET 1748	735	65.87	175.16 174.90	172.66 172.40	0.0040	600	0.016	0.57190	1.53	0.49	1.519 1.513 0.941	0 0	173.15 172.89	No
Proposed_1718 1322	1718	57.69	233.00 227.50	224.23 224.00	0.0040	600	0.016	0.15040	1.10	0.50	0.389 0.387 0.237	0 0	224.53 224.30	No
Proposed_1720 1320	1720	90.00	233.50 233.00	224.59 224.23	0.0040	600	0.016	0.15040	1.10	0.50	0.389 0.388 0.238	0 0	224.89 224.53	No
Proposed_1722 1318	1722	45.00	233.50 233.50	224.77 224.59	0.0040	600	0.016	0.15040	1.10	0.50	0.390 0.388 0.238	0 0	225.07 224.89	No
Proposed_1724 1316	1724	90.00	231.30 233.50	225.13 224.77	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	225.33 225.07	No
Proposed_1726 1314	1726	90.00	230.40 231.30	225.49 225.13	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	225.78 225.42	No
Proposed_1728 1312	1728	90.00	229.00 230.40	225.85 225.49	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	226.05 225.78	No
Proposed_1730 1310	1730	90.00	229.60 229.00	226.21 225.85	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	226.50 226.14	No
Proposed_1732 1308	1732	87.18	230.10 229.60	226.57 226.21	0.0041	600	0.016	0.14830	1.11	0.49	0.396 0.394 0.246	0 0	226.77 226.50	No
Proposed_1734 1306	1734	90.00	230.10 230.10	226.93 226.57	0.0040	600	0.016	0.14820	1.09	0.49	0.389 0.388 0.240	0 0	227.22 226.86	No
Proposed_1736 1304	1736	90.00	232.00 230.10	227.29 226.93	0.0040	600	0.016	0.14820	1.09	0.49	0.389 0.388 0.240	0 0	227.58 227.22	No
Proposed_1738 1302	1738	90.00	231.40 232.00	227.65 227.29	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	227.94 227.58	No
Proposed_1740 1300	1740	90.00	231.40 231.40	228.01 227.65	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	228.21 227.94	No
Proposed_1742 1298	1742	90.00	233.20 231.40	228.37 228.01	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	228.66 228.30	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
Proposed_1744 1296	1744	90.00	234.50 233.20	228.73 228.37	0.0040	600	0.016	0.14830	1.09	0.49	0.389 0.388 0.240	0 0	228.92 228.66	No
Proposed_1746 1294	1746	90.00	234.50 234.50	229.09 228.73	0.0040	450	0.015	0.14830	1.14	0.77	0.181 0.180 0.032	0 0	229.44 229.08	No
Proposed_1748 1292	1748	90.00	234.50 234.50	229.45 229.09	0.0040	375	0.016	0.06460	0.91	0.62	0.111 0.111 0.046	0 0	229.45 229.44	No
Proposed_1750 1290	1750	90.00	235.20 234.50	229.81 229.45	0.0040	375	0.016	0.06460	0.91	0.62	0.111 0.111 0.046	0 0	229.95 229.68	No
Proposed_1752 1288	1752	90.00	234.80 235.20	230.17 229.81	0.0040	375	0.016	0.06460	0.91	0.62	0.111 0.111 0.046	0 0	230.31 230.04	No
Proposed_1754 1286	1754	90.00	233.80 234.80	230.53 230.17	0.0040	375	0.016	0.06460	0.91	0.62	0.111 0.111 0.046	0 0	230.76 230.40	No
Proposed_1756 1284	1756	90.00	234.20 233.80	230.89 230.53	0.0040	375	0.016	0.06460	0.91	0.62	0.111 0.111 0.046	0 0	231.12 230.76	No
Proposed_1758 1282	1758	90.00	236.10 234.20	231.25 230.89	0.0040	375	0.017	0.00630	0.48	0.20	0.111 0.111 0.105	0 0	231.29 231.12	No
Proposed_1760 1280	1760	90.00	237.20 236.10	231.61 231.25	0.0040	200	0.016	0.00630	0.51	0.46	0.021 0.021 0.014	0 0	231.70 231.34	No
Proposed_1762 1278	1762	90.00	236.70 237.20	231.97 231.61	0.0040	200	0.016	0.00630	0.51	0.46	0.021 0.021 0.014	0 0	232.06 231.70	No
Proposed_1764 1276	1764	90.00	235.00 236.70	232.33 231.97	0.0040	200	0.016	0.00630	0.51	0.46	0.021 0.021 0.014	0 0	232.42 232.06	No
Proposed_1766 1274	1766	57.12	234.50 235.00	232.69 232.33	0.0063	200	0.017	0.00630	0.59	0.40	0.026 0.026 0.020	0 0	232.69 232.42	No
Proposed_1771 1334	1771	150.00	224.20 220.30	219.40 216.40	0.0200	600	0.017	0.15040	1.95	0.33	0.871 0.867 0.717	0 0	219.40 216.68	No
Proposed_1773 1332	1773	150.00	226.30 224.20	220.65 219.60	0.0070	600	0.016	0.15040	1.34	0.43	0.515 0.513 0.363	0 0	220.91 219.86	No
Proposed_1775 1330	1775	150.00	226.30 226.30	221.90 220.65	0.0083	600	0.017	0.15040	1.42	0.41	0.562 0.560 0.410	0 0	221.90 220.91	No

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UserID SEQ	G_ID	Length	Ground Up/Dn	Invert Up/Dn	Slope	Diam	"n"	DesignQ	DesVel	d/D	Qfull Qmax Qexcess	NewDiam ParDiam	HGL Up/Dn	Surcharge
Proposed_1777 1328	1777	120.50	227.10 226.20	222.33 221.70	0.0052	600	0.016	0.15040	1.20	0.46	0.445 0.444 0.293	0 0	222.51 222.14	No
Proposed_1779 1326	1779	120.00	227.80 227.10	223.01 222.38	0.0053	600	0.016	0.15040	1.21	0.46	0.446 0.444 0.294	0 0	223.28 222.65	No
Proposed_1783 1324	1783	95.00	228.30 227.80	223.56 223.06	0.0053	600	0.016	0.15040	1.21	0.46	0.447 0.445 0.295	0 0	223.83 223.33	No

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Pressure Pipes - Sorted by User's ID

UserID		Length	Ground	Invert	Slope	Diam	"C"	DesignQ	DesVel	Lift	Frict	Pres	H.P.	HGL
SEQ	G_ID		Up/Dn	Up/Dn							Head	Head	Req'd	Up/Dn
BP487		102.48	229.35	226.85	0.0106	250	100.0	0.003	0.72	-1.08	1.238	-1	0.00	226.90
1546	487		228.27	225.77										225.82
E05A04FM-9		91.40	184.20	181.70	-0.0663	100	100.0	0.000	0.00	6.06	0.000	6	0.00	187.79
844	77		190.26	187.76										187.79
E05S01-1		128.30	185.12	182.62	-0.0074	225	100.0	0.002	0.05	0.95	0.010	1	0.00	183.77
876	103		186.07	183.57										183.77
E05SYD-2		61.27	184.72	182.22	-0.0066	75	100.0	0.002	0.41	0.40	1.050	1	0.00	184.13
874	99		185.12	182.62										183.77
EBSRD32-FM		405.40	177.94	175.44	-0.0059	150	100.0	0.006	0.34	2.41	2.269	3	0.00	178.58
718	845		180.35	177.85										177.93
FM835		65.58	176.87	174.37	-0.1714	200	100.0	0.000	0.00	11.24	0.000	11	0.00	187.09
728	835		188.11	185.61										187.09
FM836		50.88	177.07	174.57	0.0040	200	100.0	0.000	0.21	-0.20	0.083	0	0.00	176.87
726	836		176.87	174.37										176.87
FM840		561.55	179.52	177.02	0.0044	200	100.0	0.000	0.00	-2.45	0.000	-2	0.00	177.02
724	840		177.07	174.57										176.87
FM842		52.54	179.93	177.43	0.0078	200	100.0	0.000	0.00	-0.41	0.000	0	0.00	177.43
722	842		179.52	177.02										177.02
FM844		42.76	180.35	177.85	0.0099	150	100.0	0.006	0.84	-0.42	1.260	0	0.00	177.93
720	844		179.93	177.43										177.51
PARKVIEW_FM		357.71	214.15	211.65	-0.0073	100	100.0	0.000	0.00	2.60	0.000	3	0.00	214.25
756	29		216.75	214.25										214.25