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BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

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In the Matter of:

Docket No. 24-_____

Application of Great Basin Water Co.,
Pahrump, Spring Creek, Cold Springs,
Pahrump, and Spanish Springs Divisions for
Approval of its 2024 Integrated Resource
Plan and to designate certain system
improvement projects as eligible projects for
which a system improvement rate may be
established, and for relief properly related
thereto.

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Document Description

Page No.

Appendix H, Part 1

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APPENDIX H
WaterCAD Modeling Scenarios

Great Basin Water Company – Pahrump Division (Volume II)
WaterCAD Modeling Scenarios

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J117	2,895.00	High	3	2,981.01	37
H-J116	2,891.00	High	3	2,981.01	39
H-J115	2,888.00	High	3	2,981.01	40
L-J5	2,736.00	Low	0	2,846.27	48
H-J118	2,870.00	High	3	2,981.01	48
L-J47	2,732.50	Low	2	2,845.68	49
H-J24	2,869.00	High	4	2,976.68	47
L-J48	2,733.50	Low	2	2,847.56	49
L-J334	2,732.50	Low	1	2,846.70	49
L-J201	2,733.00	Low	2	2,847.53	50
L-J46	2,728.00	Low	0	2,844.77	51
H-J119	2,866.00	High	3	2,981.01	50
L-J339	2,726.60	Low	2	2,844.94	51
L-J6	2,728.00	Low	0	2,846.21	51
H-J120	2,864.00	High	3	2,981.01	51
L-J340	2,726.00	Low	0	2,845.06	52
L-J335	2,727.00	Low	1	2,846.71	52
H-J25	2,862.00	High	5	2,976.68	50
H-J114	2,862.00	High	3	2,981.01	51
L-J474	2,730.00	Low	3	2,853.39	53
L-J341	2,723.80	Low	1	2,845.33	53
L-J196	2,727.50	Low	5	2,851.33	54
L-J195	2,728.00	Low	3	2,852.32	54
J-52	2,728.00	Low	0	2,852.32	54
L-J337	2,723.00	Low	1	2,845.71	53
L-J463	2,725.00	Low	2	2,848.59	53
L-J333	2,727.00	Low	0	2,853.40	55
L-J326	2,722.00	Low	2	2,846.73	54
L-J45	2,721.00	Low	1	2,845.28	54
L-J73	2,720.00	Low	1	2,845.72	54
L-J472	2,725.00	Low	3	2,853.39	56
L-J473	2,725.00	Low	3	2,853.39	56
L-J59	2,725.00	Low	13	2,853.40	56
L-J206	2,725.00	Low	0	2,853.65	56
L-J71	2,720.00	Low	0	2,846.74	55
L-J72	2,718.40	Low	1	2,845.73	55
J-41	2,730.00	High	0	2,864.86	58
J-42	2,730.00	High	0	2,864.86	58
J-43	2,730.00	High	0	2,864.86	58
L-J58	2,722.40	Low	3	2,852.32	56
L-J49	2,720.60	Low	3	2,850.35	56
H-J26	2,853.00	High	3	2,976.69	54
H-J99	2,853.00	High	2	2,981.08	55
H-J58	2,853.00	High	0	2,984.28	57
L-J44	2,718.50	Low	1	2,845.59	55

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J57	2,720.70	Low	3	2,851.33	57
H-J4	2,852.00	High	14	2,981.02	56
L-J331	2,719.00	Low	1	2,851.33	57
L-J565	2,720.00	Low	3	2,853.39	58
L-J51	2,717.30	Low	1	2,849.07	57
L-J56	2,715.90	Low	2	2,846.20	56
H-J3	2,850.20	High	0	2,981.02	57
L-J466	2,719.00	Low	3	2,853.39	58
L-J50	2,716.50	Low	3	2,849.54	58
L-J336	2,716.00	Low	1	2,849.07	58
L-J467	2,718.00	Low	3	2,853.39	59
L-J470	2,718.00	Low	3	2,853.39	59
L-J52	2,714.70	Low	2	2,848.61	58
H-J23	2,847.00	High	5	2,976.68	56
L-J55	2,712.80	Low	3	2,846.79	58
L-J468	2,716.00	Low	3	2,853.39	59
H-J48	2,722.00	High	0	2,865.45	62
L-J338	2,712.00	Low	1	2,848.61	59
L-J53	2,711.70	Low	2	2,848.16	59
L-J469	2,714.00	Low	3	2,853.39	60
L-J43	2,712.80	Low	3	2,845.57	57
L-J332	2,712.00	Low	1	2,850.39	60
L-J64	2,712.00	Low	2	2,851.33	60
H-J30	2,844.00	High	3	2,976.68	57
L-J54	2,709.10	Low	0	2,847.44	60
L-J465	2,712.00	Low	3	2,853.40	61
L-J464	2,712.00	Low	0	2,853.41	61
H-J29	2,842.00	High	1	2,976.69	58
L-J471	2,707.00	Low	3	2,849.07	61
H-J27	2,839.60	High	2	2,976.70	59
L-J74	2,715.70	Low	3	2,845.60	56
H-J33	2,839.00	High	1	2,976.69	60
L-J476	2,705.00	Low	3	2,848.61	62
L-J342	2,704.00	Low	0	2,848.50	63
L-J324	2,704.25	Low	1	2,850.44	63
H-J98	2,836.50	High	0	2,981.08	63
L-J580	2,705.00	Low	3	2,853.12	64
L-J475	2,703.00	Low	3	2,849.59	63
H-J57	2,836.00	High	2	2,981.24	63
L-J280	2,702.00	Low	12	2,847.44	63
L-J327	2,704.00	Low	0	2,853.12	65
L-J329	2,704.00	Low	0	2,853.11	65
L-J62	2,702.50	Low	4	2,852.25	65
H-J32	2,834.00	High	1	2,976.69	62
L-J477	2,700.00	Low	3	2,848.61	64

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J69	2,699.40	Low	1	2,847.44	64
L-J42	2,702.60	Low	2	2,845.46	62
L-J68	2,700.00	Low	0	2,849.59	65
L-J63	2,700.60	Low	2	2,851.33	65
H-J62	2,832.50	High	2	2,981.24	64
H-J34	2,831.60	High	2	2,976.70	63
L-J325	2,698.80	Low	1	2,850.48	66
L-J330	2,699.00	Low	0	2,851.33	66
L-J60	2,700.00	Low	2	2,853.12	66
J-1	2,697.00	Low	0	2,849.12	66
L-J65	2,697.00	Low	5	2,849.86	66
H-J97	2,829.70	High	2	2,975.78	63
L-J344	2,706.00	Low	1	2,845.60	60
L-J343	2,695.50	Low	0	2,847.44	66
L-J514	2,699.00	Low	3	2,845.41	63
L-J547	2,698.00	Low	3	2,853.11	67
H-J28	2,829.00	High	0	2,976.69	64
L-J66	2,696.00	Low	0	2,849.78	67
H-J88	2,828.00	High	3	2,981.08	66
L-J61	2,696.50	Low	2	2,853.12	68
J-47	2,700.00	Low	0	2,845.64	63
L-J67	2,694.00	Low	2	2,849.59	67
L-J41	2,696.30	Low	2	2,845.41	65
L-J75	2,716.00	Low	1	2,845.66	56
H-J31	2,825.00	High	1	2,976.68	66
H-J60	2,824.00	High	2	2,981.24	68
L-J363	2,700.00	Low	0	2,844.33	62
L-J479	2,691.00	Low	3	2,851.33	69
L-J561	2,689.00	Low	3	2,849.59	69
L-J7	2,690.00	Low	0	2,845.90	67
L-J8	2,690.00	Low	22	2,845.85	67
L-J40	2,692.00	Low	3	2,845.37	66
L-J516	2,718.00	Low	3	2,845.69	55
L-J352	2,720.00	Low	1	2,845.76	54
J-3	2,696.00	High	0	2,865.08	73
H-J96	2,820.00	High	2	2,969.87	65
H-J22	2,820.00	High	4	2,976.68	68
L-J515	2,714.00	Low	3	2,845.69	57
L-J39	2,688.00	Low	2	2,845.35	68
L-J205	2,691.00	Low	0	2,845.82	67
L-J351	2,720.00	Low	0	2,845.75	54
L-J577	2,718.00	Low	3	2,845.72	55
L-J564	2,693.00	Low	3	2,844.33	65
L-J563	2,692.00	Low	3	2,844.33	66
L-J362	2,692.00	Low	0	2,844.33	66

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J202	2,688.00	Low	0	2,845.85	68
L-J350	2,720.00	Low	2	2,845.74	54
L-J185	2,683.00	Low	0	2,845.90	70
L-J517	2,706.00	Low	3	2,845.80	60
J-2	2,706.00	Low	0	2,845.80	60
L-J17	2,684.80	Low	2	2,845.32	69
L-J345	2,684.00	Low	1	2,845.37	70
L-J559	2,685.00	Low	3	2,844.21	69
L-J510	2,683.00	Low	3	2,845.37	70
L-J347	2,683.50	Low	0	2,845.37	70
L-J349	2,683.50	Low	0	2,845.37	70
H-J95	2,812.00	High	4	2,962.76	65
H-J46	2,687.00	High	0	2,864.86	77
J-2	2,687.00	High	0	2,865.08	77
H-J109	2,687.00	High	3	2,865.16	77
L-J348	2,682.00	Low	0	2,845.37	71
L-J278	2,690.00	Low	9	2,844.33	67
L-J346	2,680.00	Low	1	2,845.34	72
L-J353	2,712.00	Low	0	2,845.75	58
L-J354	2,704.00	Low	0	2,845.78	61
H-J105	2,690.00	High	13	2,874.07	80
L-J562	2,678.00	Low	3	2,845.34	72
H-J4-A	2,799.00	High	0	2,924.06	54
L-J203	2,693.00	Low	0	2,845.81	66
H-J63	2,805.00	High	1	2,975.78	74
H-J111	2,682.00	High	3	2,867.00	80
H-J45	2,680.00	High	0	2,865.45	80
L-J361	2,680.00	Low	0	2,844.33	71
L-J360	2,680.00	Low	0	2,844.33	71
H-J64	2,803.00	High	2	2,969.87	72
L-J357	2,674.50	Low	0	2,844.21	73
H-J113	2,680.00	High	3	2,868.11	81
L-J359	2,678.00	Low	0	2,844.33	72
L-J356	2,673.50	Low	3	2,844.21	74
H-J51	2,679.00	High	2	2,868.11	82
L-J183	2,673.20	Low	3	2,844.24	74
L-J15	2,671.70	Low	0	2,844.19	75
L-J14	2,671.80	Low	0	2,844.21	75
L-J184	2,671.30	Low	1	2,844.21	75
H-J83	2,677.00	High	3	2,868.11	83
L-J358	2,675.00	Low	1	2,844.33	73
J-46	2,700.00	Low	0	2,845.78	63
L-J13	2,670.50	Low	23	2,844.24	75
L-J9	2,670.50	Low	2	2,844.34	75
L-J573	2,669.00	Low	3	2,844.60	76

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J79	2,678.00	High	10	2,871.50	84
H-J556-A	2,790.00	High	3	2,924.06	58
H-J61	2,796.50	High	2	2,981.24	80
L-J16	2,667.90	Low	0	2,844.15	76
L-J12	2,672.00	Low	3	2,844.33	75
L-J560	2,667.00	Low	3	2,844.19	77
L-J569	2,666.00	Low	3	2,844.06	77
H-J104	2,674.00	High	0	2,870.85	85
H-J44	2,794.00	High	2	2,981.24	81
H-J43	2,794.00	High	0	2,981.24	81
L-J11	2,670.00	Low	5	2,844.33	75
H-J82	2,671.00	High	3	2,868.48	85
H-J42	2,792.00	High	0	2,981.24	82
L-J10	2,668.20	Low	9	2,844.33	76
H-J49	2,668.00	High	2	2,867.00	86
H-J126	2,790.00	High	3	2,969.87	78
L-J513	2,661.00	Low	3	2,844.00	79
H-J81	2,668.00	High	17	2,868.96	87
J-23	2,665.00	High	0	2,864.91	86
L-J579	2,660.00	Low	3	2,843.97	80
L-J512	2,660.00	Low	3	2,844.00	80
H-J50	2,666.00	High	0	2,867.00	87
H-J56	2,774.00	High	0	2,914.03	61
L-J575	2,659.00	Low	3	2,844.04	80
J-48	2,700.00	Low	0	2,845.77	63
H-J84	2,664.00	High	0	2,866.17	87
L-J408	2,658.50	Low	1	2,844.06	80
H-155	2,787.00	High	3	2,981.24	84
L-J86	2,658.30	Low	2	2,844.04	80
L-J87	2,657.50	Low	1	2,844.04	81
L-J511	2,657.00	Low	3	2,844.00	81
H-J52	2,663.00	High	7	2,867.75	89
H-J65	2,785.00	High	1	2,962.76	77
H-J53	2,662.00	High	5	2,866.92	89
H-J112	2,662.00	High	3	2,867.13	89
L-J212	2,655.00	Low	1	2,843.96	82
L-J85	2,655.00	Low	3	2,843.98	82
L-J18	2,655.00	Low	12	2,844.04	82
H-J89	2,660.00	High	0	2,865.89	89
H-J110	2,659.00	High	3	2,864.55	89
H-J41	2,783.00	High	1	2,935.06	66
H-J130	2,783.00	High	3	2,981.24	86
H-J101	2,768.00	High	0	2,914.03	63
J-24	2,658.00	High	0	2,865.06	90
L-J525	2,654.00	Low	3	2,843.88	82

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J83	2,652.20	Low	2	2,843.92	83
L-J84	2,652.00	Low	2	2,843.92	83
L-J78	2,651.80	Low	2	2,843.90	83
H-J85	2,657.00	High	5	2,865.90	90
L-J526	2,653.00	Low	3	2,843.88	83
L-J77	2,651.00	Low	7	2,843.92	83
L-J204	2,703.00	Low	1	2,845.75	62
L-J412	2,652.00	Low	0	2,843.88	83
L-J76	2,650.20	Low	3	2,843.95	84
L-J19	2,649.80	Low	1	2,843.98	84
H-J131	2,778.00	High	3	2,962.76	80
L-J190	2,648.80	Low	2	2,843.92	84
L-J524	2,650.00	Low	3	2,843.88	84
L-J413	2,649.50	Low	0	2,843.88	84
L-J383	2,648.00	Low	1	2,843.87	85
L-J407	2,648.00	Low	0	2,844.00	85
L-J88	2,648.00	Low	8	2,843.99	85
H-J47	2,652.00	High	2	2,864.42	92
L-J189	2,647.80	Low	2	2,843.95	85
L-J90	2,647.80	Low	1	2,843.98	85
L-J166	2,649.00	Low	0	2,843.46	84
L-J411	2,648.50	Low	3	2,843.88	85
L-J38	2,648.50	Low	17	2,843.88	85
L-J382	2,647.00	Low	0	2,843.88	85
L-J89	2,647.00	Low	0	2,843.98	85
L-J20	2,646.50	Low	4	2,843.92	85
L-J211	2,646.00	Low	1	2,843.86	86
H-J90	2,650.00	High	21	2,864.25	93
L-J384	2,645.00	Low	2	2,843.86	86
H-J55	2,759.00	High	0	2,914.03	67
H-J86	2,650.00	High	12	2,866.00	93
L-J527	2,651.00	Low	3	2,842.55	83
L-J79	2,644.20	Low	3	2,843.86	86
L-J208	2,643.00	Low	3	2,843.74	87
L-J21	2,643.00	Low	2	2,843.74	87
L-J188	2,643.00	Low	0	2,843.98	87
H-J124	2,771.00	High	3	2,935.06	71
L-J388	2,642.00	Low	0	2,843.67	87
L-J389	2,642.00	Low	0	2,843.67	87
L-J80	2,642.10	Low	2	2,843.84	87
L-J179	2,642.00	Low	2	2,843.84	87
L-J137	2,648.00	Low	10	2,842.56	84
L-J367	2,683.00	Low	2	2,841.88	69
H-J40	2,770.00	High	2	2,935.06	71
H-134	2,758.00	High	3	2,917.85	69

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J542	2,655.00	Low	3	2,842.18	81
L-J157	2,684.00	Low	3	2,841.86	68
L-J366	2,682.00	Low	5	2,841.88	69
L-J81	2,640.20	Low	3	2,843.83	88
J-25	2,644.00	High	0	2,863.93	95
L-J213	2,683.00	Low	5	2,841.85	69
L-J368	2,656.00	Low	3	2,842.18	81
L-J541	2,661.00	Low	3	2,842.10	78
H-J108	2,767.00	High	3	2,932.40	72
H-J54	2,753.00	High	0	2,914.03	70
L-J165	2,640.00	Low	0	2,843.46	88
L-J414	2,640.00	Low	0	2,843.44	88
H-J94	2,767.00	High	6	2,935.06	73
L-J22	2,638.10	Low	1	2,843.68	89
L-J37	2,639.00	Low	23	2,843.49	88
L-J555	2,686.00	Low	3	2,841.86	67
H-J59	2,766.00	High	2	2,981.08	93
L-J176	2,638.50	Low	2	2,843.49	89
L-J154	2,653.50	Low	2	2,842.18	82
L-J372	2,650.00	Low	2	2,842.18	83
L-J145	2,636.20	Low	3	2,843.67	90
L-J369	2,658.00	Low	2	2,842.10	80
J-17	2,753.00	High	0	2,917.85	71
L-J82	2,635.80	Low	3	2,843.75	90
L-J406	2,635.70	Low	2	2,843.63	90
L-J23	2,635.70	Low	2	2,843.62	90
L-J210	2,635.00	Low	2	2,843.75	90
L-J174	2,636.40	Low	0	2,843.43	90
L-J155	2,656.50	Low	0	2,842.10	80
L-J543	2,649.00	Low	3	2,842.18	84
L-J36	2,636.00	Low	4	2,843.43	90
L-J167	2,636.00	Low	0	2,843.43	90
H-J73	2,756.00	High	3	2,924.06	73
L-J370	2,656.00	Low	2	2,842.10	81
H-135	2,751.00	High	3	2,917.85	72
L-J158	2,684.00	Low	0	2,841.86	68
J-26	2,628.00	Low	0	2,850.93	96
H-J72	2,755.00	High	0	2,924.28	73
L-J486	2,633.00	Low	3	2,843.57	91
L-J173	2,634.30	Low	2	2,843.36	90
L-J156	2,666.00	Low	14	2,841.95	76
L-J481	2,633.00	Low	3	2,843.33	91
L-J91	2,631.80	Low	1	2,843.67	92
H-136	2,749.00	High	3	2,917.85	73
L-J455	2,637.30	Low	0	2,842.37	89

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J404	2,632.00	Low	0	2,843.50	92
L-J405	2,632.00	Low	2	2,843.50	92
L-J35	2,633.00	Low	3	2,843.36	91
L-J487	2,631.00	Low	3	2,843.66	92
L-J488	2,631.00	Low	3	2,843.66	92
J-3	2,631.00	Low	0	2,843.67	92
H-154	2,760.00	High	3	2,981.08	96
H-J125	2,759.00	High	3	2,932.40	75
L-J365	2,684.00	Low	3	2,841.86	68
L-J175	2,632.50	Low	1	2,843.40	91
L-J529	2,636.00	Low	3	2,842.61	89
L-J172	2,632.20	Low	1	2,843.29	91
L-J139	2,635.80	Low	4	2,842.61	89
L-J489	2,630.00	Low	3	2,843.66	92
L-J385	2,630.00	Low	2	2,843.68	92
L-J143	2,632.00	Low	14	2,843.17	91
L-J485	2,630.00	Low	3	2,843.57	92
L-J142	2,631.70	Low	1	2,843.17	91
L-J141	2,631.50	Low	1	2,843.19	92
L-J544	2,642.00	Low	3	2,842.18	87
L-J374	2,642.00	Low	5	2,842.18	87
L-J144	2,631.50	Low	0	2,843.17	92
L-J496	2,628.00	Low	3	2,843.67	93
L-J34	2,631.20	Low	3	2,843.29	92
L-J491	2,629.00	Low	3	2,843.65	93
L-J490	2,629.00	Low	3	2,843.65	93
L-J492	2,629.00	Low	3	2,843.65	93
L-J493	2,629.00	Low	3	2,843.65	93
L-J386	2,629.00	Low	0	2,843.67	93
L-J171	2,630.80	Low	3	2,843.26	92
L-J371	2,642.00	Low	8	2,842.18	87
L-J33	2,630.20	Low	1	2,843.26	92
H-J13	2,742.00	High	2	2,913.20	74
L-J387	2,628.00	Low	1	2,843.66	93
H-J38	2,756.00	High	1	2,932.40	76
L-J207	2,682.00	Low	0	2,841.86	69
L-J373	2,640.00	Low	0	2,842.18	87
L-J136	2,633.00	Low	3	2,842.61	91
H-J12	2,741.00	High	1	2,913.20	75
H-J20	2,741.00	High	0	2,913.20	75
L-J403	2,628.00	Low	0	2,843.41	93
L-J24	2,628.00	Low	1	2,843.41	93
L-J390	2,627.00	Low	0	2,843.65	94
L-J187	2,628.00	Low	3	2,843.33	93
L-J480	2,628.00	Low	3	2,843.33	93

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-8	2,755.00	High	0	2,932.40	77
H-J107	2,755.00	High	3	2,932.40	77
L-J376	2,638.00	Low	3	2,842.19	88
L-J528	2,632.00	Low	3	2,842.61	91
H-J93	2,755.00	High	3	2,934.08	77
L-J391	2,626.00	Low	2	2,843.65	94
L-J170	2,628.00	Low	1	2,843.23	93
L-J169	2,628.00	Low	2	2,843.20	93
L-J32	2,627.80	Low	2	2,843.23	93
H-J18	2,739.00	High	0	2,913.20	75
L-J375	2,636.00	Low	10	2,842.19	89
L-J223	2,668.00	Low	5	2,841.83	75
H-J37	2,750.00	High	0	2,929.05	77
H-156	2,738.00	High	3	2,913.20	76
L-J484	2,625.00	Low	3	2,843.40	94
J-13	2,667.82	Low	0	2,841.83	75
L-J31	2,626.00	Low	5	2,843.20	94
L-J168	2,626.00	Low	3	2,843.17	94
H-J80	2,733.00	High	0	2,907.23	75
L-J111	2,618.50	Low	3	2,843.87	98
L-J478	2,667.00	Low	3	2,841.83	76
L-J27	2,624.50	Low	1	2,843.29	95
H-J15	2,737.00	High	0	2,913.20	76
H-J11	2,736.90	High	0	2,913.20	76
L-J25	2,624.00	Low	1	2,843.37	95
L-J402	2,624.00	Low	0	2,843.37	95
L-J409	2,620.00	Low	0	2,843.70	97
L-J26	2,624.00	Low	1	2,843.33	95
L-J401	2,624.00	Low	0	2,843.33	95
L-J94	2,620.00	Low	3	2,843.70	97
H-J10	2,736.60	High	0	2,913.20	76
L-J138	2,628.50	Low	6	2,842.61	93
L-J28	2,624.00	Low	0	2,843.26	95
L-J191	2,624.80	Low	3	2,843.13	94
L-J410	2,621.00	Low	0	2,843.67	96
L-J92	2,621.00	Low	1	2,843.67	96
J-23	2,740.10	High	0	2,918.62	77
L-J426	2,628.00	Low	3	2,842.60	93
L-J30	2,624.20	Low	5	2,843.17	95
L-J483	2,623.00	Low	3	2,843.40	95
J-22	2,740.00	High	0	2,918.71	77
J-21	2,740.00	High	0	2,918.77	77
L-J395	2,619.00	Low	0	2,843.71	97
L-J519	2,627.00	Low	3	2,842.66	93
L-J571	2,617.00	Low	3	2,843.87	98

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J522	2,624.00	Low	3	2,843.05	95
L-J392	2,620.00	Low	1	2,843.67	97
L-J214	2,665.00	Low	7	2,841.83	77
J-15	2,664.97	Low	0	2,841.83	77
H-J16	2,735.00	High	0	2,913.20	77
L-J507	2,622.00	Low	3	2,843.40	96
L-J578	2,623.00	Low	3	2,843.10	95
L-J93	2,618.00	Low	2	2,843.69	98
H-J9	2,734.20	High	0	2,913.20	77
L-J454	2,626.00	Low	0	2,842.37	94
H-J121	2,748.00	High	3	2,931.60	79
H-J8	2,733.90	High	1	2,913.20	78
L-J159	2,676.00	Low	0	2,841.86	72
J-20	2,738.00	High	0	2,918.79	78
L-J398	2,615.00	Low	1	2,843.87	99
L-J186	2,621.00	Low	2	2,843.29	96
L-J160	2,676.00	Low	1	2,841.86	72
L-J29	2,621.50	Low	85	2,843.13	96
L-J495	2,618.00	Low	3	2,843.67	98
L-J221	2,663.00	Low	0	2,841.83	77
L-J506	2,620.00	Low	3	2,843.40	97
L-J482	2,620.00	Low	3	2,843.40	97
H-J87	2,738.00	High	1	2,920.10	79
L-J521	2,621.00	Low	3	2,843.05	96
L-J520	2,623.00	Low	3	2,842.66	95
H-133	2,735.00	High	3	2,918.89	80
L-J509	2,612.00	Low	3	2,843.87	100
L-J133	2,619.20	Low	1	2,843.04	97
J-14	2,660.00	Low	0	2,841.83	79
L-J134	2,618.90	Low	0	2,843.00	97
L-J508	2,611.00	Low	3	2,843.87	101
L-J557	2,617.00	Low	3	2,843.29	98
H-J7	2,729.00	High	10	2,913.20	80
L-J177	2,610.00	Low	2	2,843.98	101
L-J135	2,619.00	Low	8	2,842.75	97
L-J400	2,610.00	Low	2	2,843.88	101
L-J109	2,610.00	Low	4	2,843.87	101
L-J397	2,610.00	Low	0	2,843.87	101
L-J364	2,672.00	Low	1	2,841.86	73
L-J194	2,619.00	Low	0	2,842.60	97
H-J123	2,742.00	High	3	2,931.60	82
H-J74	2,736.00	High	3	2,923.83	81
H-J39	2,742.00	High	1	2,932.40	82
H-J71	2,736.00	High	1	2,924.55	82
H-J122	2,741.00	High	3	2,931.60	82

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Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J494	2,610.00	Low	3	2,843.71	101
L-J417	2,608.00	Low	0	2,843.95	102
L-J415	2,608.00	Low	2	2,843.94	102
L-J416	2,608.00	Low	0	2,843.94	102
L-J321	2,609.90	Low	3	2,843.71	101
L-J396	2,608.00	Low	3	2,843.87	102
L-J323	2,609.40	Low	0	2,843.72	101
L-J105	2,607.80	Low	5	2,843.88	102
L-J110	2,607.80	Low	2	2,843.88	102
L-J209	2,615.00	Low	0	2,843.06	99
L-J162	2,607.00	Low	0	2,843.97	103
L-J322	2,608.70	Low	1	2,843.72	102
L-J377	2,606.80	Low	0	2,843.97	103
L-J108	2,607.00	Low	0	2,843.87	102
L-J161	2,669.00	Low	1	2,841.86	75
H-J70	2,735.00	High	1	2,925.73	83
L-J146	2,616.00	Low	0	2,842.60	98
L-J393	2,608.00	Low	1	2,843.73	102
L-J96	2,608.00	Low	1	2,843.72	102
L-J112	2,607.50	Low	1	2,843.72	102
L-J220	2,616.25	Low	17	2,842.37	98
L-J425	2,605.50	Low	1	2,843.98	103
L-J122	2,605.50	Low	1	2,843.98	103
J-36	2,605.00	Low	0	2,848.46	105
L-J215	2,654.00	Low	8	2,841.83	81
L-J199	2,620.00	Low	0	2,842.23	96
H-J69	2,733.90	High	0	2,926.69	83
L-J106	2,612.00	Low	5	2,843.12	100
L-J121	2,604.70	Low	2	2,843.98	104
L-J303	2,604.50	Low	0	2,848.81	106
L-J95	2,606.00	Low	3	2,843.72	103
J-39	2,604.00	Low	0	2,848.46	106
J-40	2,604.00	Low	0	2,848.46	106
L-J219	2,614.80	Low	0	2,842.37	98
L-J120	2,604.00	Low	0	2,843.98	104
L-J119	2,604.00	Low	2	2,843.99	104
H-J68	2,733.40	High	0	2,928.09	84
J-35	2,603.00	Low	0	2,848.46	106
J-37	2,603.00	Low	0	2,848.46	106
L-J163	2,603.00	Low	0	2,843.97	104
L-J104	2,603.00	Low	4	2,843.88	104
L-J502	2,603.00	Low	3	2,843.87	104
L-J123	2,602.50	Low	3	2,843.97	104
L-J558	2,604.00	Low	3	2,843.73	104
L-J147	2,612.00	Low	5	2,842.50	100

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Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J148	2,612.00	Low	84	2,842.45	100
J-38	2,602.00	Low	0	2,848.46	107
J-27	2,602.00	Low	0	2,849.72	107
L-J113	2,603.50	Low	3	2,843.73	104
J-28	2,602.00	Low	0	2,850.27	107
L-J193	2,602.00	Low	2	2,843.99	105
L-J399	2,602.00	Low	1	2,843.88	105
L-J498	2,603.00	Low	3	2,843.73	104
H-J76	2,722.00	High	76	2,915.20	84
L-J118	2,601.50	Low	1	2,843.99	105
H-J5	2,720.00	High	0	2,912.71	83
J-16	2,722.57	High	0	2,916.22	84
L-J218	2,612.00	Low	0	2,842.37	100
L-J222	2,650.00	Low	0	2,841.83	83
H-J67	2,732.00	High	1	2,929.05	85
L-J198	2,613.50	Low	1	2,842.31	99
H-J75	2,728.00	High	25	2,923.81	85
J-19	2,724.25	High	0	2,918.87	84
L-J124	2,601.00	Low	0	2,843.97	105
L-J378	2,601.00	Low	0	2,843.97	105
L-J97	2,602.30	Low	3	2,843.73	104
L-J153	2,615.50	Low	8	2,842.23	98
L-J546	2,612.00	Low	3	2,842.34	100
L-J116	2,600.50	Low	3	2,843.98	105
J-33	2,600.00	Low	0	2,848.46	107
L-J318	2,601.30	Low	2	2,843.75	105
H-J92	2,734.00	High	9	2,933.20	86
L-J132	2,600.00	Low	0	2,844.01	106
L-J423	2,600.00	Low	0	2,843.97	106
L-J178	2,609.50	Low	1	2,842.47	101
L-J379	2,599.80	Low	0	2,843.97	106
L-J380	2,599.80	Low	0	2,843.97	106
L-J103	2,600.00	Low	5	2,843.87	106
L-J107	2,600.00	Low	3	2,843.87	106
L-J545	2,612.00	Low	3	2,842.31	100
L-J197	2,611.00	Low	0	2,842.34	100
L-J117	2,599.50	Low	0	2,844.00	106
L-J298	2,599.00	Low	65	2,848.46	108
J-34	2,599.00	Low	0	2,848.46	108
J-31	2,599.00	Low	0	2,848.50	108
J-32	2,599.00	Low	0	2,848.50	108
L-J152	2,611.50	Low	2	2,842.31	100
H-J106	2,732.50	High	3	2,932.40	86
L-J418	2,599.00	Low	1	2,844.01	106
L-J501	2,600.00	Low	3	2,843.75	105

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Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J304	2,598.60	Low	0	2,848.81	108
L-J305	2,598.40	Low	0	2,848.81	108
L-J125	2,598.50	Low	1	2,843.97	106
L-J428	2,598.50	Low	2	2,844.22	106
L-J427	2,598.50	Low	1	2,844.20	106
L-J319	2,599.60	Low	3	2,843.75	106
L-J151	2,610.00	Low	1	2,842.34	101
H-J66	2,731.00	High	0	2,931.60	87
J-29	2,598.00	Low	0	2,848.52	108
J-30	2,598.00	Low	0	2,848.52	108
L-J98	2,599.30	Low	3	2,843.75	106
H-J77	2,717.00	High	20	2,913.20	85
L-J381	2,598.00	Low	1	2,843.97	106
L-J192	2,598.00	Low	4	2,843.98	106
L-J126	2,597.50	Low	2	2,843.96	107
H-J100	2,717.00	High	19	2,914.03	85
H-J6	2,715.90	High	0	2,912.71	85
L-J102	2,597.50	Low	8	2,843.87	107
L-J228	2,597.00	Low	1	2,848.22	109
L-J434	2,597.00	Low	4	2,845.06	107
L-J433	2,597.00	Low	3	2,844.88	107
L-J432	2,597.00	Low	3	2,844.77	107
L-J431	2,597.00	Low	3	2,844.65	107
L-J430	2,597.00	Low	3	2,844.53	107
L-J429	2,597.00	Low	3	2,844.45	107
L-J452	2,597.00	Low	2	2,844.34	107
L-J127	2,597.00	Low	35	2,844.24	107
L-J227	2,596.81	Low	2	2,848.09	109
L-J128	2,597.00	Low	0	2,844.15	107
L-J419	2,597.00	Low	1	2,844.03	107
L-J499	2,598.00	Low	3	2,843.75	106
L-J130	2,596.90	Low	0	2,844.04	107
L-J566	2,597.00	Low	3	2,843.87	107
L-J150	2,607.50	Low	1	2,842.37	102
L-J224	2,596.50	Low	8	2,846.59	108
L-J225	2,596.45	Low	2	2,847.53	109
L-J131	2,596.50	Low	2	2,844.03	107
L-J129	2,596.30	Low	0	2,844.06	107
L-J295	2,596.00	Low	0	2,848.54	109
L-J294	2,596.00	Low	0	2,848.58	109
J-7	2,645.00	Low	0	2,841.82	85
L-J293	2,596.00	Low	0	2,848.73	109
L-J182	2,596.00	Low	6	2,845.61	108
L-J435	2,596.00	Low	3	2,845.31	108
L-J277	2,595.87	Low	0	2,848.81	109

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Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J180	2,596.00	Low	4	2,844.03	107
J-5	2,644.75	Low	0	2,841.82	85
L-J420	2,596.00	Low	1	2,843.99	107
L-J500	2,597.00	Low	3	2,843.75	107
L-J115	2,596.70	Low	0	2,843.79	107
L-J164	2,595.80	Low	1	2,843.96	107
L-J200	2,596.00	Low	0	2,843.87	107
L-J149	2,606.00	Low	0	2,842.40	102
L-J234	2,595.11	Low	2	2,847.80	109
L-J241	2,595.11	Low	2	2,848.05	109
L-J240	2,595.11	Low	2	2,848.05	109
L-J101	2,595.50	Low	7	2,843.87	107
L-J226	2,594.93	Low	2	2,847.77	109
L-J449	2,595.00	Low	1	2,844.23	108
L-J320	2,596.00	Low	3	2,843.76	107
L-J450	2,594.00	Low	18	2,844.97	109
L-J453	2,594.00	Low	0	2,844.97	109
L-J236	2,593.81	Low	2	2,847.83	110
L-J243	2,593.81	Low	2	2,848.02	110
L-J244	2,593.81	Low	2	2,848.02	110
L-J114	2,595.00	Low	2	2,843.77	108
L-J533	2,594.00	Low	3	2,843.97	108
L-J233	2,593.66	Low	2	2,847.80	110
L-J239	2,593.66	Low	2	2,848.05	110
L-J540	2,642.00	Low	3	2,841.82	86
J-10	2,642.00	Low	0	2,841.82	86
L-J394	2,594.00	Low	4	2,843.75	108
J-4	2,594.00	Low	0	2,843.75	108
L-J532	2,593.00	Low	3	2,843.98	109
L-J534	2,593.00	Low	3	2,843.97	109
L-J503	2,593.00	Low	3	2,843.87	109
L-J504	2,593.00	Low	3	2,843.87	109
L-J238	2,592.41	Low	2	2,847.87	111
L-J246	2,592.41	Low	2	2,847.98	111
L-J247	2,592.41	Low	2	2,847.98	111
L-J235	2,592.36	Low	2	2,847.83	111
L-J242	2,592.36	Low	2	2,848.02	111
L-J550	2,712.00	Low	3	2,914.02	87
L-J549	2,712.00	Low	3	2,914.02	87
L-J216	2,641.00	Low	10	2,841.82	87
L-J99	2,593.20	Low	2	2,843.75	108
L-J100	2,592.30	Low	4	2,843.87	109
L-J181	2,592.00	Low	1	2,844.00	109
L-J443	2,591.60	Low	3	2,844.45	109
H-J91	2,706.00	High	28	2,907.23	87

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J442	2,591.10	Low	2	2,844.53	110
J-6	2,640.00	Low	0	2,841.82	87
J-8	2,640.00	Low	0	2,841.82	87
J-9	2,640.00	Low	0	2,841.82	87
J-11	2,640.00	Low	0	2,841.82	87
J-12	2,640.00	Low	0	2,841.82	87
L-J237	2,590.96	Low	2	2,847.87	111
L-J245	2,590.96	Low	2	2,847.98	111
L-J232	2,590.88	Low	1	2,847.96	111
L-J444	2,591.00	Low	2	2,844.37	110
L-J422	2,591.00	Low	4	2,843.97	109
L-J445	2,590.80	Low	1	2,844.31	110
L-J446	2,590.80	Low	3	2,844.28	110
L-J447	2,590.80	Low	1	2,844.27	110
L-J448	2,590.80	Low	2	2,844.26	110
L-J505	2,591.00	Low	3	2,843.87	109
L-J231	2,590.18	Low	2	2,847.96	112
L-J229	2,590.00	Low	2	2,847.91	112
L-J438	2,590.00	Low	0	2,844.80	110
L-J439	2,590.00	Low	3	2,844.74	110
L-J440	2,590.00	Low	0	2,844.68	110
L-J441	2,590.00	Low	3	2,844.62	110
L-J230	2,589.88	Low	2	2,847.90	112
H-J36	2,728.00	High	0	2,934.47	89
L-J421	2,590.00	Low	0	2,844.00	110
L-J424	2,590.00	Low	1	2,843.98	110
L-J436	2,589.20	Low	0	2,844.85	111
L-J437	2,589.20	Low	4	2,844.83	111
L-J255	2,588.70	Low	4	2,847.91	112
J-5	2,590.00	Low	0	2,843.75	110
L-J254	2,588.49	Low	3	2,847.91	112
L-J256	2,588.40	Low	3	2,847.91	112
L-J274	2,588.17	Low	1	2,847.91	112
L-J248	2,588.00	Low	2	2,847.91	112
L-J265	2,587.95	Low	1	2,847.91	112
L-J269	2,587.75	Low	6	2,847.91	113
L-J530	2,588.00	Low	3	2,843.98	111
L-J253	2,587.64	Low	4	2,847.92	113
L-J267	2,587.62	Low	2	2,847.91	113
L-J264	2,587.62	Low	3	2,847.91	113
L-J268	2,587.61	Low	3	2,847.91	113
L-J266	2,587.40	Low	2	2,847.91	113
L-J270	2,587.40	Low	3	2,847.92	113
L-J263	2,587.39	Low	3	2,847.91	113
L-J259	2,587.14	Low	2	2,847.91	113

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J262	2,587.12	Low	2	2,847.91	113
L-J567	2,587.00	Low	3	2,848.14	113
L-J260	2,586.85	Low	2	2,847.91	113
L-J258	2,586.85	Low	3	2,847.92	113
L-J251	2,586.71	Low	0	2,848.00	113
L-J273	2,586.60	Low	0	2,848.02	113
L-J257	2,586.58	Low	3	2,847.92	113
L-J249	2,586.56	Low	3	2,847.93	113
L-J261	2,586.54	Low	2	2,847.91	113
L-J272	2,586.54	Low	4	2,847.92	113
J-25	2,586.35	High	0	2,848.04	113
L-J568	2,586.00	Low	3	2,848.06	113
L-J250	2,585.96	Low	3	2,847.96	113
L-J217	2,635.00	Low	8	2,841.82	89
L-J252	2,585.73	Low	4	2,847.93	113
L-J271	2,585.70	Low	4	2,847.94	113
H-J2	2,721.00	High	0	2,933.69	92
L-J291	2,584.50	Low	0	2,848.06	114
L-J292	2,584.00	Low	28	2,848.06	114
L-J290	2,583.00	Low	0	2,848.04	115
L-J287	2,582.50	Low	0	2,848.04	115
L-J289	2,582.41	Low	0	2,848.04	115
H-J78	2,697.00	High	15	2,907.24	91
L-J281	2,582.00	Low	1	2,848.04	115
L-J282	2,582.00	Low	0	2,848.04	115
L-J283	2,581.90	Low	0	2,848.04	115
L-J284	2,581.70	Low	1	2,848.04	115
L-J288	2,581.70	Low	1	2,848.04	115
L-J285	2,581.40	Low	0	2,848.04	115
L-J548	2,701.00	Low	17	2,914.02	92
L-J551	2,701.00	Low	3	2,914.02	92
L-J552	2,701.00	Low	3	2,914.02	92
L-J553	2,701.00	Low	3	2,914.02	92
L-J286	2,581.20	Low	1	2,848.04	115
J-28	2,579.20	MVE	1	2,717.92	60
J-29	2,579.20	MVE	1	2,717.92	60
J-30	2,579.20	MVE	1	2,717.93	60
J-27	2,579.20	MVE	1	2,717.93	60
J-26	2,579.20	Low	0	2,844.85	115
L-J461	2,618.00	Low	0	2,841.82	97
L-J536	2,618.00	Low	3	2,841.82	97
L-J554	2,617.00	Low	3	2,841.82	97
J-6	2,617.00	Low	0	2,841.82	97
L-J539	2,616.00	Low	3	2,841.82	98
L-J460	2,616.00	Low	0	2,841.82	98

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-45	2,684.00	High	0	2,910.82	98
L-J462	2,615.00	Low	1	2,841.82	98
L-J459	2,613.70	Low	1	2,841.82	99
L-J275	2,611.60	Low	0	2,841.82	100
J-7	2,611.00	Low	0	2,841.82	100
L-J457	2,610.00	Low	0	2,841.82	100
J-1	2,610.00	Low	0	2,841.82	100
L-J456	2,609.10	Low	0	2,841.82	101
L-J276	2,608.90	Low	0	2,841.82	101
J-18	2,722.00	High	0	2,915.20	84

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-29	MVE	0	1	1,001	628	False	-114	-97	J-28
J-28	MVE	0	1	1,001	628	False	-113	-97	J-29
L-J457	Low	1,000	0	1,000	834	False	-19	-19	J-1
L-J474	Low	1,000	3	1,003	779	False	1	35	L-J472
H-J117	High	1,000	3	1,003	868	False	14	17	H-J116
L-J195	Low	1,000	3	1,003	943	False	16	28	J-52
H-J116	High	1,000	3	1,003	891	False	16	15	H-J117
H-J115	High	1,000	3	1,003	910	False	18	16	H-J117
H-J118	High	1,000	3	1,003	888	False	24	15	H-J117
H-J119	High	1,000	3	1,003	904	False	28	16	H-J117
J-52	Low	0	0	1,000	1,185	True	28	28	L-J195
H-J120	High	1,000	3	1,003	929	False	30	17	H-J117
L-J456	Low	1,000	0	1,000	1,072	True	32	32	L-J457
H-J114	High	1,000	3	1,003	968	False	33	19	H-J117
L-J472	Low	1,000	3	1,003	1,380	True	35	33	L-J474
L-J196	Low	1,000	5	1,005	1,474	True	36	39	L-J48
H-J24	High	1,000	4	1,004	1,471	True	36	38	H-J117
L-J565	Low	1,000	3	1,003	1,435	True	36	38	L-J474
L-J48	Low	1,000	2	1,002	1,762	True	37	38	L-J201
L-J201	Low	1,000	2	1,002	1,824	True	38	38	L-J48
L-J47	Low	1,000	2	1,002	1,903	True	38	39	L-J334
L-J334	Low	1,000	1	1,001	1,882	True	38	38	L-J47
L-J467	Low	1,000	3	1,003	1,554	True	39	38	L-J474
L-J335	Low	1,000	1	1,001	1,806	True	39	38	L-J334
L-J46	Low	1,000	0	1,000	1,995	True	39	39	L-J47
L-J466	Low	1,000	3	1,003	1,580	True	39	38	L-J474
L-J470	Low	1,000	3	1,003	1,572	True	40	38	L-J474
J-43	High	0	0	1,000	1,516	True	40	39	H-J117
L-J340	Low	1,000	0	1,000	1,939	True	40	39	L-J47
L-J475	Low	1,000	3	1,003	1,447	True	40	39	L-J48
L-J326	Low	1,000	2	1,002	1,750	True	40	38	L-J334
L-J473	Low	1,000	3	1,003	1,755	True	40	39	L-J474
L-J339	Low	1,000	2	1,002	2,017	True	40	39	L-J47
L-J463	Low	1,000	2	1,002	1,831	True	40	38	L-J48
L-J337	Low	1,000	1	1,001	1,854	True	40	38	L-J47
L-J468	Low	1,000	3	1,003	1,601	True	40	38	L-J474
L-J341	Low	1,000	1	1,001	1,888	True	41	39	L-J47
H-J4	High	1,000	14	1,014	1,166	True	41	25	H-J117

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J71	Low	1,000	0	1,000	1,771	True	41	39	L-J47
L-J333	Low	1,000	0	1,000	1,935	True	41	39	L-J48
H-J23	High	1,000	5	1,005	1,490	True	41	38	H-J117
L-J469	Low	1,000	3	1,003	1,630	True	42	38	L-J474
J-42	High	0	0	1,000	1,632	True	42	39	H-J117
L-J73	Low	1,000	1	1,001	1,968	True	42	38	L-J47
H-J25	High	1,000	5	1,005	1,687	True	43	38	H-J117
J-41	High	0	0	1,000	1,666	True	43	39	H-J117
L-J59	Low	1,000	13	1,013	1,966	True	43	39	L-J48
L-J206	Low	1,000	0	1,000	1,953	True	43	39	L-J48
L-J331	Low	1,000	1	1,001	1,931	True	44	39	L-J48
L-J58	Low	1,000	3	1,003	1,987	True	44	39	L-J48
L-J45	Low	1,000	1	1,001	2,059	True	44	39	L-J47
L-J329	Low	1,000	0	1,000	1,623	True	44	39	L-J48
L-J343	Low	1,000	0	1,000	1,532	True	44	39	L-J47
H-J3	High	1,000	0	1,000	1,152	True	44	25	H-J117
L-J72	Low	1,000	1	1,001	1,990	True	44	39	L-J47
L-J476	Low	1,000	3	1,003	1,675	True	44	39	L-J48
L-J57	Low	1,000	3	1,003	1,988	True	45	39	L-J48
L-J49	Low	1,000	3	1,003	1,985	True	45	39	L-J48
L-J465	Low	1,000	3	1,003	1,754	True	45	39	L-J474
L-J69	Low	1,000	1	1,001	1,609	True	45	39	L-J47
H-J48	High	1,000	0	1,000	1,662	True	45	39	H-J117
L-J327	Low	1,000	0	1,000	1,697	True	45	39	L-J48
L-J336	Low	1,000	1	1,001	1,993	True	45	39	L-J48
L-J547	Low	1,000	3	1,003	1,621	True	45	39	L-J48
L-J68	Low	1,000	0	1,000	1,634	True	46	39	L-J48
L-J64	Low	1,000	2	1,002	1,923	True	46	39	L-J48
L-J471	Low	1,000	3	1,003	1,815	True	46	39	L-J48
L-J338	Low	1,000	1	1,001	1,967	True	46	39	L-J48
L-J51	Low	1,000	1	1,001	1,993	True	46	39	L-J48
L-J332	Low	1,000	1	1,001	1,975	True	46	39	L-J48
L-J50	Low	1,000	3	1,003	1,987	True	46	39	L-J48
H-J30	High	1,000	3	1,003	1,692	True	47	38	H-J117
L-J44	Low	1,000	1	1,001	2,114	True	47	40	L-J47
L-J56	Low	1,000	2	1,002	2,050	True	47	39	L-J47
L-J52	Low	1,000	2	1,002	2,002	True	47	39	L-J48
L-J464	Low	1,000	0	1,000	1,935	True	48	39	L-J48

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J55	Low	1,000	3	1,003	2,030	True	48	39	L-J47
L-J344	Low	1,000	1	1,001	1,782	True	48	42	L-J47
L-J53	Low	1,000	2	1,002	2,010	True	49	39	L-J48
L-J342	Low	1,000	0	1,000	1,991	True	49	39	L-J48
H-J26	High	1,000	3	1,003	1,907	True	49	38	H-J117
L-J324	Low	1,000	1	1,001	1,988	True	49	39	L-J48
L-J5	Low	1,000	0	1,000	3,500	True	49	52	L-J47
L-J54	Low	1,000	0	1,000	2,015	True	50	39	L-J47
L-J477	Low	1,000	3	1,003	1,987	True	50	39	L-J48
J-1	Low	0	0	1,000	1,930	True	50	39	L-J48
L-J580	Low	1,000	3	1,003	1,957	True	50	39	L-J48
L-J330	Low	1,000	0	1,000	1,988	True	51	39	L-J48
L-J74	Low	1,000	3	1,003	2,369	True	51	42	L-J47
H-J29	High	1,000	1	1,001	1,935	True	51	38	H-J117
L-J62	Low	1,000	4	1,004	1,989	True	51	39	L-J48
L-J43	Low	1,000	3	1,003	2,313	True	51	41	L-J47
L-J479	Low	1,000	3	1,003	1,889	True	52	39	L-J48
L-J61	Low	1,000	2	1,002	1,955	True	52	39	L-J48
L-J280	Low	1,000	12	1,012	2,027	True	52	39	L-J47
L-J60	Low	1,000	2	1,002	1,956	True	52	39	L-J48
H-J99	High	1,000	2	1,002	2,485	True	52	38	H-J117
L-J363	Low	1,000	0	1,000	1,771	True	52	50	L-J5
L-J63	Low	1,000	2	1,002	1,990	True	52	39	L-J48
H-J33	High	1,000	1	1,001	2,006	True	52	38	H-J117
L-J67	Low	1,000	2	1,002	1,980	True	53	39	L-J48
L-J325	Low	1,000	1	1,001	1,990	True	53	39	L-J48
L-J66	Low	1,000	0	1,000	1,993	True	53	39	L-J48
L-J65	Low	1,000	5	1,005	1,997	True	53	39	L-J48
L-J6	Low	1,000	0	1,000	3,500	True	53	49	L-J5
L-J561	Low	1,000	3	1,003	1,982	True	53	39	L-J48
L-J75	Low	1,000	1	1,001	2,506	True	53	45	L-J47
L-J516	Low	1,000	3	1,003	2,769	True	55	46	L-J47
L-J515	Low	1,000	3	1,003	2,580	True	55	46	L-J47
H-134	High	1,000	3	1,003	1,473	True	55	39	H-J117
L-J461	Low	1,000	0	1,000	1,323	True	56	50	L-J5
H-J88	High	1,000	3	1,003	2,040	True	57	38	H-J117
H-J58	High	1,000	0	1,000	3,228	True	57	39	H-J117
H-J22	High	1,000	4	1,004	1,755	True	57	38	H-J117

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J514	Low	1,000	3	1,003	2,601	True	58	45	L-J47
H-J32	High	1,000	1	1,001	2,142	True	58	38	H-J117
L-J577	Low	1,000	3	1,003	3,289	True	58	47	L-J47
L-J42	Low	1,000	2	1,002	2,669	True	58	43	L-J47
H-J27	High	1,000	2	1,002	2,433	True	58	38	H-J117
H-J31	High	1,000	1	1,001	1,819	True	58	38	H-J117
H-J4-A	High	1,000	0	1,000	2,380	True	59	39	H-J117
H-J28	High	1,000	0	1,000	1,955	True	59	38	H-J117
L-J563	Low	1,000	3	1,003	2,095	True	59	50	L-J5
H-J62	High	1,000	2	1,002	2,538	True	59	38	H-J117
L-J352	Low	1,000	1	1,001	3,355	True	60	49	L-J47
L-J559	Low	1,000	3	1,003	2,066	True	60	50	L-J5
L-J351	Low	1,000	0	1,000	3,500	True	61	49	L-J47
L-J564	Low	1,000	3	1,003	2,344	True	61	50	L-J5
L-J350	Low	1,000	2	1,002	3,502	True	61	48	L-J47
J-5	Low	0	0	1,000	1,386	True	62	50	L-J47
H-J125	High	1,000	3	1,003	1,539	True	62	39	H-J117
H-J56	High	1,000	0	1,000	3,043	True	62	39	H-J117
L-J41	Low	1,000	2	1,002	2,909	True	62	45	L-J47
L-J517	Low	1,000	3	1,003	2,770	True	62	50	L-J5
H-J556-A	High	1,000	3	1,003	2,384	True	62	39	H-J117
L-J362	Low	1,000	0	1,000	2,369	True	62	50	L-J5
L-J353	Low	1,000	0	1,000	3,181	True	63	49	L-J47
L-J510	Low	1,000	3	1,003	2,414	True	63	46	L-J47
L-J189	Low	1,000	2	1,002	1,663	True	63	49	L-J47
H-J98	High	1,000	0	1,000	2,758	True	63	38	H-J117
H-J57	High	1,000	2	1,002	2,778	True	63	38	H-J117
H-J34	High	1,000	2	1,002	2,844	True	64	38	H-J117
H-J97	High	1,000	2	1,002	2,862	True	64	38	H-J117
H-J101	High	1,000	0	1,000	3,236	True	65	39	H-J117
J-30	MVE	0	1	1,001	1,410	True	65	82	J-29
L-J40	Low	1,000	3	1,003	3,227	True	65	46	L-J47
H-J80	High	1,000	0	1,000	1,909	True	65	39	H-J117
L-J345	Low	1,000	1	1,001	2,916	True	65	46	L-J47
J-47	Low	0	0	1,000	3,500	True	66	49	L-J47
J-2	Low	0	0	1,000	3,500	True	66	50	L-J5
H-J60	High	1,000	2	1,002	2,779	True	66	38	H-J117

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J361	Low	1,000	0	1,000	2,311	True	66	50	L-J5
L-J359	Low	1,000	0	1,000	2,358	True	66	50	L-J5
L-J354	Low	1,000	0	1,000	3,500	True	66	50	L-J47
H-J96	High	1,000	2	1,002	2,973	True	67	38	H-J117
H-J44	High	1,000	2	1,002	2,040	True	67	38	H-J117
L-J360	Low	1,000	0	1,000	2,444	True	68	50	L-J5
L-J190	Low	1,000	2	1,002	1,868	True	68	49	L-J47
L-J39	Low	1,000	2	1,002	3,502	True	68	46	L-J47
L-J349	Low	1,000	0	1,000	3,380	True	68	48	L-J47
L-J346	Low	1,000	1	1,001	3,223	True	68	46	L-J47
H-J95	High	1,000	4	1,004	3,357	True	68	38	H-J117
J-46	Low	0	0	1,000	3,254	True	68	50	L-J47
H-J63	High	1,000	1	1,001	2,486	True	68	38	H-J117
L-J562	Low	1,000	3	1,003	3,053	True	68	46	L-J47
H-J55	High	1,000	0	1,000	3,170	True	69	39	H-J117
H-154	High	1,000	3	1,003	1,671	True	69	38	H-J117
L-J210	Low	1,000	2	1,002	1,747	True	69	49	L-J47
L-J185	Low	1,000	0	1,000	3,437	True	69	50	L-J5
H-J13	High	1,000	2	1,002	2,114	True	69	39	H-J117
H-155	High	1,000	3	1,003	2,014	True	69	38	H-J117
J-48	Low	0	0	1,000	3,364	True	69	49	L-J47
H-J64	High	1,000	2	1,002	2,592	True	70	38	H-J117
H-J12	High	1,000	1	1,001	2,160	True	70	39	H-J117
L-J348	Low	1,000	0	1,000	3,500	True	70	48	L-J47
J-6	Low	0	0	1,000	1,558	True	70	50	L-J5
H-J59	High	1,000	2	1,002	1,771	True	70	38	H-J117
H-135	High	1,000	3	1,003	2,207	True	70	39	H-J117
L-J358	Low	1,000	1	1,001	2,533	True	70	50	L-J5
H-J43	High	1,000	0	1,000	2,265	True	70	38	H-J117
H-J20	High	1,000	0	1,000	2,275	True	70	39	H-J117
L-J17	Low	1,000	2	1,002	3,502	True	70	47	L-J47
H-J46	High	1,000	0	1,000	3,198	True	71	39	H-J117
L-J7	Low	1,000	0	1,000	3,500	True	71	50	L-J5
L-J8	Low	1,000	22	1,022	3,522	True	71	50	L-J5
H-156	High	1,000	3	1,003	2,239	True	71	39	H-J117
L-J347	Low	1,000	0	1,000	3,500	True	71	48	L-J47
H-J54	High	1,000	0	1,000	3,300	True	71	39	H-J117
L-J203	Low	1,000	0	1,000	3,500	True	71	50	L-J5

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J278	Low	1,000	9	1,009	3,509	True	71	50	L-J5
L-J205	Low	1,000	0	1,000	3,500	True	72	50	L-J5
H-136	High	1,000	3	1,003	2,238	True	72	39	H-J117
H-J111	High	1,000	3	1,003	3,226	True	72	39	H-J117
H-J41	High	1,000	1	1,001	2,593	True	72	39	H-J117
H-J61	High	1,000	2	1,002	2,498	True	72	38	H-J117
H-J108	High	1,000	3	1,003	2,034	True	72	39	H-J117
H-J11	High	1,000	0	1,000	2,249	True	72	39	H-J117
H-J18	High	1,000	0	1,000	2,434	True	72	39	H-J117
H-J10	High	1,000	0	1,000	2,264	True	72	39	H-J117
H-J126	High	1,000	3	1,003	2,396	True	72	38	H-J117
H-J42	High	1,000	0	1,000	2,402	True	73	38	H-J117
H-J109	High	1,000	3	1,003	3,503	True	73	39	H-J117
H-J15	High	1,000	0	1,000	2,380	True	73	39	H-J117
L-J357	Low	1,000	0	1,000	3,191	True	73	50	L-J5
H-J65	High	1,000	1	1,001	2,299	True	73	38	H-J117
L-J202	Low	1,000	0	1,000	3,500	True	73	50	L-J5
L-J513	Low	1,000	3	1,003	2,547	True	73	49	L-J47
L-J204	Low	1,000	1	1,001	3,501	True	73	49	L-J47
L-J356	Low	1,000	3	1,003	3,345	True	73	50	L-J5
H-J130	High	1,000	3	1,003	2,255	True	74	38	H-J117
H-J9	High	1,000	0	1,000	2,380	True	74	39	H-J117
L-J12	Low	1,000	3	1,003	3,005	True	74	50	L-J5
L-J426	Low	1,000	3	1,003	1,826	True	74	50	L-J5
L-J368	Low	1,000	3	1,003	2,247	True	74	50	L-J5
H-J8	High	1,000	1	1,001	2,414	True	74	39	H-J117
L-J367	Low	1,000	2	1,002	3,078	True	75	50	L-J5
H-J131	High	1,000	3	1,003	2,277	True	75	38	H-J117
L-J184	Low	1,000	1	1,001	3,501	True	75	50	L-J5
H-J45	High	1,000	0	1,000	3,500	True	75	39	H-J117
H-J16	High	1,000	0	1,000	2,761	True	75	39	H-J117
L-J365	Low	1,000	3	1,003	2,830	True	76	50	L-J5
L-J569	Low	1,000	3	1,003	3,400	True	76	49	L-J47
L-J213	Low	1,000	5	1,005	3,243	True	76	50	L-J5
L-J377	Low	1,000	0	1,000	3,500	True	76	50	L-J47
H-J38	High	1,000	1	1,001	2,065	True	76	39	H-J117
L-J157	Low	1,000	3	1,003	3,450	True	76	50	L-J5
L-J555	Low	1,000	3	1,003	3,432	True	76	50	L-J5

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-55	Low	0	0	1,000	3,500	True	77	51	L-J5
L-J279	Low	1,000	0	1,000	3,500	True	77	50	L-J5
L-J478	Low	1,000	3	1,003	2,539	True	77	50	L-J5
L-J366	Low	1,000	5	1,005	3,468	True	77	50	L-J5
L-J207	Low	1,000	0	1,000	2,930	True	77	50	L-J5
L-J389	Low	1,000	0	1,000	2,347	True	77	49	L-J47
L-J11	Low	1,000	5	1,005	3,505	True	77	50	L-J5
L-J158	Low	1,000	0	1,000	3,406	True	78	50	L-J5
L-J573	Low	1,000	3	1,003	3,503	True	78	48	L-J47
L-J179	Low	1,000	2	1,002	2,371	True	78	49	L-J47
L-J166	Low	1,000	0	1,000	2,528	True	78	50	L-J5
L-J512	Low	1,000	3	1,003	3,415	True	78	49	L-J47
L-J223	Low	1,000	5	1,005	2,708	True	78	50	L-J5
L-J183	Low	1,000	3	1,003	3,503	True	78	50	L-J5
L-J15	Low	1,000	0	1,000	3,500	True	78	50	L-J47
H-J113	High	1,000	3	1,003	3,503	True	79	39	H-J117
L-J162	Low	1,000	0	1,000	3,500	True	79	50	L-J47
L-J14	Low	1,000	0	1,000	3,500	True	79	50	L-J5
H-J39	High	1,000	1	1,001	1,839	True	79	39	H-J117
H-J73	High	1,000	3	1,003	3,188	True	79	39	H-J117
H-J7	High	1,000	10	1,010	3,095	True	79	39	H-J117
J-8	High	0	0	1,000	2,269	True	79	39	H-J117
L-J560	Low	1,000	3	1,003	3,503	True	79	50	L-J47
L-J211	Low	1,000	1	1,001	2,668	True	79	49	L-J47
H-J51	High	1,000	2	1,002	3,502	True	79	39	H-J117
H-J105	High	1,000	13	1,013	3,513	True	79	39	H-J117
L-J84	Low	1,000	2	1,002	3,056	True	79	49	L-J47
H-J72	High	1,000	0	1,000	3,231	True	79	39	H-J117
L-J16	Low	1,000	0	1,000	3,500	True	80	50	L-J47
L-J13	Low	1,000	23	1,023	3,523	True	80	50	L-J5
H-J124	High	1,000	3	1,003	3,503	True	80	39	H-J117
L-J9	Low	1,000	2	1,002	3,502	True	80	50	L-J5
L-J388	Low	1,000	0	1,000	2,621	True	80	49	L-J47
H-J83	High	1,000	3	1,003	3,503	True	80	39	H-J117
H-J40	High	1,000	2	1,002	3,502	True	80	39	H-J117
L-J579	Low	1,000	3	1,003	3,503	True	80	49	L-J47
H-J107	High	1,000	3	1,003	2,379	True	81	39	H-J117
L-J10	Low	1,000	9	1,009	3,509	True	81	50	L-J5

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-59	Low	0	0	1,000	3,500	True	81	51	L-J5
L-J425	Low	1,000	1	1,001	2,008	True	81	50	L-J47
L-J214	Low	1,000	7	1,007	2,990	True	81	50	L-J5
L-J541	Low	1,000	3	1,003	3,296	True	82	50	L-J5
L-J542	Low	1,000	3	1,003	3,074	True	82	50	L-J5
H-J50	High	1,000	0	1,000	3,500	True	82	39	H-J117
H-J94	High	1,000	6	1,006	3,506	True	82	39	H-J117
L-J221	Low	1,000	0	1,000	2,957	True	82	50	L-J5
H-J87	High	1,000	1	1,001	3,501	True	82	39	H-J117
H-J5	High	1,000	0	1,000	3,344	True	82	39	H-J117
H-J37	High	1,000	0	1,000	2,993	True	82	39	H-J117
L-J159	Low	1,000	0	1,000	3,500	True	82	50	L-J5
L-J212	Low	1,000	1	1,001	3,501	True	82	49	L-J47
H-J79	High	1,000	10	1,010	3,510	True	82	39	H-J117
L-J160	Low	1,000	1	1,001	3,501	True	82	50	L-J5
L-J372	Low	1,000	2	1,002	2,932	True	83	50	L-J5
L-J525	Low	1,000	3	1,003	3,503	True	83	50	L-J5
L-J511	Low	1,000	3	1,003	3,503	True	83	49	L-J47
L-J85	Low	1,000	3	1,003	3,503	True	83	49	L-J47
L-J87	Low	1,000	1	1,001	3,501	True	83	49	L-J47
L-J156	Low	1,000	14	1,014	3,514	True	83	50	L-J5
L-J188	Low	1,000	0	1,000	3,068	True	83	49	L-J47
L-J575	Low	1,000	3	1,003	3,503	True	83	49	L-J47
H-J82	High	1,000	3	1,003	3,503	True	83	39	H-J117
L-J408	Low	1,000	1	1,001	3,501	True	83	49	L-J47
J-23	High	0	0	1,000	3,500	True	83	39	H-J117
H-J49	High	1,000	2	1,002	3,502	True	83	39	H-J117
L-J86	Low	1,000	2	1,002	3,502	True	83	49	L-J47
L-J83	Low	1,000	2	1,002	3,502	True	83	49	L-J47
L-J364	Low	1,000	1	1,001	3,380	True	83	50	L-J5
L-J77	Low	1,000	7	1,007	3,507	True	83	49	L-J47
H-J104	High	1,000	0	1,000	3,500	True	84	39	H-J117
L-J455	Low	1,000	0	1,000	2,566	True	84	50	L-J5
H-133	High	1,000	3	1,003	3,503	True	84	39	H-J117
L-J383	Low	1,000	1	1,001	3,501	True	84	49	L-J47
H-J91	High	1,000	28	1,028	3,222	True	84	39	H-J117
L-J78	Low	1,000	2	1,002	3,502	True	84	49	L-J47
H-J121	High	1,000	3	1,003	2,825	True	84	39	H-J117

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J369	Low	1,000	2	1,002	3,502	True	84	50	L-J5
H-J53	High	1,000	5	1,005	3,505	True	84	39	H-J117
H-J112	High	1,000	3	1,003	3,503	True	84	39	H-J117
H-J52	High	1,000	7	1,007	3,507	True	84	39	H-J117
L-J412	Low	1,000	0	1,000	3,500	True	84	50	L-J5
H-J84	High	1,000	0	1,000	3,500	True	85	39	H-J117
L-J382	Low	1,000	0	1,000	3,500	True	85	49	L-J47
L-J18	Low	1,000	12	1,012	3,512	True	85	49	L-J47
H-J81	High	1,000	17	1,017	3,517	True	85	39	H-J117
L-J370	Low	1,000	2	1,002	3,502	True	85	50	L-J5
L-J76	Low	1,000	3	1,003	3,503	True	85	49	L-J47
L-J384	Low	1,000	2	1,002	3,502	True	85	49	L-J47
L-J484	Low	1,000	3	1,003	2,478	True	85	50	L-J47
L-J79	Low	1,000	3	1,003	3,503	True	85	49	L-J47
L-J481	Low	1,000	3	1,003	2,791	True	85	50	L-J47
L-J544	Low	1,000	3	1,003	2,902	True	85	50	L-J5
J-39	Low	0	0	1,000	2,235	True	85	51	L-J47
L-J215	Low	1,000	8	1,008	2,986	True	85	50	L-J5
H-J110	High	1,000	3	1,003	3,503	True	86	39	H-J117
L-J161	Low	1,000	1	1,001	3,501	True	86	50	L-J5
L-J496	Low	1,000	3	1,003	2,877	True	86	50	L-J47
L-J155	Low	1,000	0	1,000	3,500	True	86	50	L-J5
L-J173	Low	1,000	2	1,002	2,910	True	86	50	L-J5
L-J88	Low	1,000	8	1,008	3,508	True	86	49	L-J47
L-J526	Low	1,000	3	1,003	3,503	True	86	50	L-J5
H-J89	High	1,000	0	1,000	3,500	True	86	39	H-J117
L-J176	Low	1,000	2	1,002	3,208	True	86	50	L-J5
H-J122	High	1,000	3	1,003	2,729	True	86	39	H-J117
L-J144	Low	1,000	0	1,000	2,789	True	86	50	L-J5
L-J495	Low	1,000	3	1,003	2,497	True	86	50	L-J47
L-J80	Low	1,000	2	1,002	3,502	True	86	49	L-J47
J-24	High	0	0	1,000	3,500	True	86	39	H-J117
H-J76	High	1,000	76	1,076	3,576	True	87	39	H-J117
L-J407	Low	1,000	0	1,000	3,500	True	87	49	L-J47
L-J543	Low	1,000	3	1,003	3,503	True	87	50	L-J5
L-J506	Low	1,000	3	1,003	2,481	True	87	50	L-J47
L-J19	Low	1,000	1	1,001	3,501	True	87	49	L-J47
H-J93	High	1,000	3	1,003	3,503	True	87	39	H-J117

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J376	Low	1,000	3	1,003	2,922	True	87	50	L-J5
L-J145	Low	1,000	3	1,003	3,353	True	87	49	L-J47
L-J374	Low	1,000	5	1,005	3,170	True	87	50	L-J5
L-J174	Low	1,000	0	1,000	3,205	True	87	50	L-J5
L-J89	Low	1,000	0	1,000	3,500	True	87	49	L-J47
L-J154	Low	1,000	2	1,002	3,502	True	87	50	L-J5
L-J222	Low	1,000	0	1,000	2,967	True	87	50	L-J5
H-J77	High	1,000	20	1,020	3,520	True	87	39	H-J117
L-J90	Low	1,000	1	1,001	3,501	True	87	49	L-J47
L-J550	Low	1,000	3	1,003	3,503	True	87	49	L-J47
H-J6	High	1,000	0	1,000	3,500	True	87	39	H-J117
L-J527	Low	1,000	3	1,003	3,503	True	87	50	L-J5
H-J85	High	1,000	5	1,005	3,505	True	87	39	H-J117
H-J74	High	1,000	3	1,003	3,318	True	87	39	H-J117
L-J549	Low	1,000	3	1,003	3,503	True	88	49	L-J47
L-J524	Low	1,000	3	1,003	3,503	True	88	50	L-J5
H-J100	High	1,000	19	1,019	3,519	True	88	39	H-J117
J-37	Low	0	0	1,000	2,396	True	88	51	L-J47
L-J81	Low	1,000	3	1,003	3,503	True	88	49	L-J47
L-J208	Low	1,000	3	1,003	3,503	True	88	49	L-J47
H-J71	High	1,000	1	1,001	3,307	True	88	39	H-J117
L-J413	Low	1,000	0	1,000	3,500	True	88	50	L-J5
L-J540	Low	1,000	3	1,003	2,795	True	88	50	L-J5
H-J123	High	1,000	3	1,003	3,253	True	88	39	H-J117
L-J20	Low	1,000	4	1,004	3,504	True	88	49	L-J47
L-J482	Low	1,000	3	1,003	2,639	True	88	50	L-J47
H-J86	High	1,000	12	1,012	3,512	True	89	39	H-J117
L-J507	Low	1,000	3	1,003	2,712	True	89	50	L-J47
H-J47	High	1,000	2	1,002	3,502	True	89	39	H-J117
L-J172	Low	1,000	1	1,001	3,201	True	89	50	L-J5
L-J137	Low	1,000	10	1,010	3,510	True	89	50	L-J5
L-J411	Low	1,000	3	1,003	3,503	True	89	50	L-J5
L-J38	Low	1,000	17	1,017	3,517	True	89	50	L-J5
J-40	Low	0	0	1,000	2,512	True	89	51	L-J47
L-J371	Low	1,000	8	1,008	3,508	True	89	50	L-J5
L-J373	Low	1,000	0	1,000	3,500	True	89	50	L-J5
H-J90	High	1,000	21	1,021	3,521	True	89	39	H-J117
L-J171	Low	1,000	3	1,003	3,253	True	89	50	L-J5

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
H-J70	High	1,000	1	1,001	3,350	True	89	39	H-J117
L-J21	Low	1,000	2	1,002	3,502	True	90	49	L-J47
L-J82	Low	1,000	3	1,003	3,503	True	90	49	L-J47
L-J454	Low	1,000	0	1,000	2,690	True	90	50	L-J5
L-J163	Low	1,000	0	1,000	3,500	True	90	50	L-J47
L-J548	Low	1,000	17	1,017	3,349	True	90	49	L-J47
L-J111	Low	1,000	3	1,003	3,503	True	90	50	L-J47
L-J165	Low	1,000	0	1,000	3,500	True	90	50	L-J5
L-J169	Low	1,000	2	1,002	3,218	True	90	50	L-J5
L-J414	Low	1,000	0	1,000	3,500	True	90	50	L-J5
L-J170	Low	1,000	1	1,001	3,267	True	91	50	L-J5
H-J69	High	1,000	0	1,000	3,385	True	91	39	H-J117
L-J375	Low	1,000	10	1,010	3,485	True	91	50	L-J5
L-J177	Low	1,000	2	1,002	3,379	True	91	50	L-J47
L-J529	Low	1,000	3	1,003	3,503	True	91	50	L-J5
H-J78	High	1,000	15	1,015	3,515	True	91	39	H-J117
L-J216	Low	1,000	10	1,010	2,981	True	91	50	L-J5
L-J553	Low	1,000	3	1,003	3,438	True	91	49	L-J47
H-J75	High	1,000	25	1,025	3,375	True	91	39	H-J117
J-36	Low	0	0	1,000	2,784	True	91	51	L-J47
L-J508	Low	1,000	3	1,003	3,503	True	91	50	L-J47
L-J571	Low	1,000	3	1,003	3,503	True	91	50	L-J47
L-J168	Low	1,000	3	1,003	3,255	True	91	50	L-J5
J-33	Low	0	0	1,000	2,608	True	91	51	L-J47
L-J217	Low	1,000	8	1,008	2,842	True	92	50	L-J5
L-J483	Low	1,000	3	1,003	3,248	True	92	50	L-J47
J-25	High	0	0	1,000	3,500	True	92	39	H-J117
L-J552	Low	1,000	3	1,003	3,503	True	92	49	L-J47
L-J22	Low	1,000	1	1,001	3,501	True	92	49	L-J47
L-J551	Low	1,000	3	1,003	3,503	True	92	49	L-J47
H-J68	High	1,000	0	1,000	3,439	True	92	39	H-J117
J-38	Low	0	0	1,000	2,768	True	92	51	L-J47
L-J139	Low	1,000	4	1,004	3,504	True	92	50	L-J5
L-J143	Low	1,000	14	1,014	3,514	True	92	50	L-J5
L-J494	Low	1,000	3	1,003	3,094	True	92	50	L-J47
L-J528	Low	1,000	3	1,003	3,503	True	92	50	L-J5
L-J398	Low	1,000	1	1,001	3,501	True	92	50	L-J47
L-J395	Low	1,000	0	1,000	3,500	True	92	50	L-J47

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J509	Low	1,000	3	1,003	3,503	True	92	50	L-J47
L-J502	Low	1,000	3	1,003	3,228	True	92	50	L-J47
L-J167	Low	1,000	0	1,000	3,500	True	93	50	L-J5
L-J164	Low	1,000	1	1,001	2,754	True	93	50	L-J47
L-J122	Low	1,000	1	1,001	3,501	True	93	50	L-J47
L-J406	Low	1,000	2	1,002	3,502	True	93	49	L-J47
L-J37	Low	1,000	23	1,023	3,523	True	93	50	L-J5
L-J23	Low	1,000	2	1,002	3,502	True	93	49	L-J47
L-J409	Low	1,000	0	1,000	3,500	True	93	50	L-J47
L-J462	Low	1,000	1	1,001	2,395	True	93	50	L-J5
L-J91	Low	1,000	1	1,001	3,501	True	93	49	L-J47
L-J394	Low	1,000	4	1,004	2,555	True	93	50	L-J47
L-J396	Low	1,000	3	1,003	3,503	True	93	50	L-J47
L-J109	Low	1,000	4	1,004	3,504	True	93	50	L-J47
L-J558	Low	1,000	3	1,003	3,006	True	93	50	L-J47
L-J405	Low	1,000	2	1,002	3,502	True	93	50	L-J47
L-J488	Low	1,000	3	1,003	3,503	True	93	49	L-J47
H-J67	High	1,000	1	1,001	3,477	True	93	39	H-J117
L-J487	Low	1,000	3	1,003	3,503	True	93	49	L-J47
L-J480	Low	1,000	3	1,003	3,503	True	93	50	L-J47
L-J399	Low	1,000	1	1,001	3,490	True	93	50	L-J47
L-J175	Low	1,000	1	1,001	3,501	True	94	50	L-J5
L-J94	Low	1,000	3	1,003	3,503	True	94	50	L-J47
L-J545	Low	1,000	3	1,003	2,637	True	94	50	L-J5
J-3	Low	0	0	1,000	3,500	True	94	49	L-J47
L-J392	Low	1,000	1	1,001	3,501	True	94	50	L-J47
L-J199	Low	1,000	0	1,000	2,971	True	94	50	L-J5
L-J557	Low	1,000	3	1,003	3,179	True	94	50	L-J47
L-J397	Low	1,000	0	1,000	3,500	True	94	50	L-J47
L-J485	Low	1,000	3	1,003	3,503	True	94	49	L-J47
L-J532	Low	1,000	3	1,003	2,745	True	94	50	L-J47
L-J385	Low	1,000	2	1,002	3,502	True	94	49	L-J47
L-J386	Low	1,000	0	1,000	3,500	True	94	49	L-J47
J-35	Low	0	0	1,000	3,149	True	94	51	L-J47
J-26	Low	0	0	1,000	3,500	True	94	51	L-J5
L-J486	Low	1,000	3	1,003	3,503	True	94	49	L-J47
L-J36	Low	1,000	4	1,004	3,504	True	94	50	L-J5
L-J142	Low	1,000	1	1,001	3,501	True	94	50	L-J5

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J108	Low	1,000	0	1,000	3,500	True	94	50	L-J47
L-J489	Low	1,000	3	1,003	3,503	True	94	49	L-J47
L-J193	Low	1,000	2	1,002	3,477	True	94	50	L-J47
J-31	Low	0	0	1,000	2,926	True	94	51	L-J47
L-J492	Low	1,000	3	1,003	3,503	True	95	49	L-J47
L-J404	Low	1,000	0	1,000	3,500	True	95	50	L-J47
L-J400	Low	1,000	2	1,002	3,502	True	95	50	L-J47
L-J520	Low	1,000	3	1,003	3,481	True	95	50	L-J5
L-J410	Low	1,000	0	1,000	3,500	True	95	50	L-J47
L-J121	Low	1,000	2	1,002	3,502	True	95	50	L-J47
L-J378	Low	1,000	0	1,000	3,500	True	95	50	L-J47
L-J490	Low	1,000	3	1,003	3,503	True	95	49	L-J47
L-J491	Low	1,000	3	1,003	3,503	True	95	49	L-J47
L-J110	Low	1,000	2	1,002	3,502	True	95	50	L-J47
L-J387	Low	1,000	1	1,001	3,501	True	95	49	L-J47
L-J505	Low	1,000	3	1,003	2,812	True	95	50	L-J47
L-J403	Low	1,000	0	1,000	3,500	True	95	50	L-J47
L-J141	Low	1,000	1	1,001	3,501	True	95	50	L-J5
L-J123	Low	1,000	3	1,003	3,503	True	95	50	L-J47
L-J192	Low	1,000	4	1,004	3,289	True	95	50	L-J47
L-J493	Low	1,000	3	1,003	3,503	True	95	49	L-J47
L-J136	Low	1,000	3	1,003	3,503	True	95	50	L-J5
L-J416	Low	1,000	0	1,000	3,500	True	95	50	L-J47
L-J417	Low	1,000	0	1,000	3,500	True	95	50	L-J47
L-J35	Low	1,000	3	1,003	3,503	True	95	50	L-J5
L-J194	Low	1,000	0	1,000	3,365	True	95	50	L-J5
L-J187	Low	1,000	3	1,003	3,503	True	96	50	L-J47
J-34	Low	0	0	1,000	3,148	True	96	51	L-J47
L-J93	Low	1,000	2	1,002	3,502	True	96	50	L-J47
L-J186	Low	1,000	2	1,002	3,502	True	96	50	L-J47
L-J381	Low	1,000	1	1,001	3,501	True	96	50	L-J47
H-J92	High	1,000	9	1,009	3,509	True	96	39	H-J117
L-J198	Low	1,000	1	1,001	2,924	True	96	50	L-J5
H-J106	High	1,000	3	1,003	3,503	True	96	39	H-J117
H-J66	High	1,000	0	1,000	3,500	True	96	39	H-J117
L-J138	Low	1,000	6	1,006	3,506	True	96	50	L-J5
L-J390	Low	1,000	0	1,000	3,500	True	96	49	L-J47
L-J92	Low	1,000	1	1,001	3,501	True	96	50	L-J47

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J124	Low	1,000	0	1,000	3,500	True	96	50	L-J47
L-J120	Low	1,000	0	1,000	3,500	True	96	50	L-J47
L-J415	Low	1,000	2	1,002	3,502	True	96	50	L-J47
L-J34	Low	1,000	3	1,003	3,503	True	96	50	L-J5
L-J391	Low	1,000	2	1,002	3,502	True	96	49	L-J47
L-J323	Low	1,000	0	1,000	3,500	True	96	50	L-J47
L-J536	Low	1,000	3	1,003	2,732	True	96	50	L-J5
L-J501	Low	1,000	3	1,003	3,364	True	96	50	L-J47
L-J521	Low	1,000	3	1,003	3,503	True	96	50	L-J5
L-J380	Low	1,000	0	1,000	3,500	True	96	50	L-J47
L-J220	Low	1,000	17	1,017	3,273	True	96	50	L-J5
L-J24	Low	1,000	1	1,001	3,501	True	96	50	L-J47
L-J33	Low	1,000	1	1,001	3,501	True	97	50	L-J5
L-J401	Low	1,000	0	1,000	3,500	True	97	50	L-J47
L-J105	Low	1,000	5	1,005	3,505	True	97	50	L-J47
L-J321	Low	1,000	3	1,003	3,503	True	97	50	L-J47
L-J191	Low	1,000	3	1,003	3,503	True	97	50	L-J5
J-29	Low	0	0	1,000	3,253	True	97	51	L-J47
L-J393	Low	1,000	1	1,001	3,501	True	97	50	L-J47
L-J418	Low	1,000	1	1,001	3,501	True	97	50	L-J47
L-J107	Low	1,000	3	1,003	3,503	True	97	50	L-J47
L-J402	Low	1,000	0	1,000	3,500	True	97	50	L-J47
L-J318	Low	1,000	2	1,002	3,502	True	97	50	L-J47
L-J554	Low	1,000	3	1,003	2,762	True	97	50	L-J5
L-J119	Low	1,000	2	1,002	3,502	True	97	50	L-J47
L-J539	Low	1,000	3	1,003	2,756	True	97	50	L-J5
L-J379	Low	1,000	0	1,000	3,500	True	97	50	L-J47
L-J322	Low	1,000	1	1,001	3,501	True	97	50	L-J47
L-J32	Low	1,000	2	1,002	3,502	True	98	50	L-J5
L-J460	Low	1,000	0	1,000	2,784	True	98	50	L-J5
L-J519	Low	1,000	3	1,003	3,503	True	98	50	L-J5
L-J219	Low	1,000	0	1,000	3,342	True	98	50	L-J5
L-J298	Low	1,000	65	1,065	3,565	True	98	51	L-J47
L-J498	Low	1,000	3	1,003	3,503	True	98	50	L-J47
L-J112	Low	1,000	1	1,001	3,501	True	98	50	L-J47
L-J25	Low	1,000	1	1,001	3,501	True	98	50	L-J47
L-J27	Low	1,000	1	1,001	3,501	True	98	50	L-J47
L-J546	Low	1,000	3	1,003	3,258	True	98	50	L-J5

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J96	Low	1,000	1	1,001	3,501	True	98	50	L-J47
L-J26	Low	1,000	1	1,001	3,501	True	98	50	L-J47
L-J31	Low	1,000	5	1,005	3,505	True	98	50	L-J5
L-J522	Low	1,000	3	1,003	3,503	True	98	50	L-J5
L-J578	Low	1,000	3	1,003	3,503	True	99	50	L-J5
L-J566	Low	1,000	3	1,003	3,503	True	99	50	L-J47
L-J28	Low	1,000	0	1,000	3,500	True	99	50	L-J47
L-J125	Low	1,000	1	1,001	3,501	True	99	50	L-J47
L-J423	Low	1,000	0	1,000	3,500	True	99	50	L-J47
L-J104	Low	1,000	4	1,004	3,504	True	99	50	L-J47
L-J459	Low	1,000	1	1,001	2,815	True	99	50	L-J5
L-J95	Low	1,000	3	1,003	3,503	True	99	50	L-J47
L-J118	Low	1,000	1	1,001	3,501	True	99	50	L-J47
L-J116	Low	1,000	3	1,003	3,503	True	99	50	L-J47
L-J453	Low	1,000	0	1,000	3,500	True	99	50	L-J47
L-J153	Low	1,000	8	1,008	3,508	True	99	50	L-J5
L-J30	Low	1,000	5	1,005	3,505	True	99	50	L-J5
L-J303	Low	1,000	0	1,000	3,500	True	99	51	L-J47
L-J533	Low	1,000	3	1,003	3,503	True	99	50	L-J47
L-J450	Low	1,000	18	1,018	3,518	True	99	50	L-J47
H-J36	High	1,000	0	1,000	3,500	True	99	39	H-J117
L-J275	Low	1,000	0	1,000	2,773	True	99	50	L-J5
J-45	High	0	0	1,000	3,500	True	99	39	H-J117
L-J197	Low	1,000	0	1,000	3,420	True	100	50	L-J5
J-7	Low	0	0	1,000	2,769	True	100	50	L-J5
L-J218	Low	1,000	0	1,000	3,342	True	100	50	L-J5
L-J113	Low	1,000	3	1,003	3,503	True	100	50	L-J47
L-J420	Low	1,000	1	1,001	3,501	True	100	50	L-J47
L-J200	Low	1,000	0	1,000	3,500	True	100	50	L-J47
L-J276	Low	1,000	0	1,000	2,766	True	100	50	L-J5
L-J126	Low	1,000	2	1,002	3,502	True	100	50	L-J47
L-J103	Low	1,000	5	1,005	3,505	True	100	50	L-J47
L-J97	Low	1,000	3	1,003	3,503	True	100	50	L-J47
L-J29	Low	1,000	85	1,085	3,585	True	100	50	L-J5
L-J132	Low	1,000	0	1,000	3,500	True	100	50	L-J47
L-J319	Low	1,000	3	1,003	3,503	True	100	50	L-J47
L-J419	Low	1,000	1	1,001	3,501	True	101	50	L-J47
L-J117	Low	1,000	0	1,000	3,500	True	101	50	L-J47

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-32	Low	0	0	1,000	3,500	True	101	51	L-J47
L-J449	Low	1,000	1	1,001	3,501	True	101	50	L-J47
L-J534	Low	1,000	3	1,003	3,503	True	101	50	L-J47
L-J98	Low	1,000	3	1,003	3,503	True	101	50	L-J47
L-J152	Low	1,000	2	1,002	3,502	True	101	50	L-J5
L-J428	Low	1,000	2	1,002	3,502	True	101	50	L-J47
L-J427	Low	1,000	1	1,001	3,501	True	101	50	L-J47
L-J133	Low	1,000	1	1,001	3,501	True	101	50	L-J5
L-J209	Low	1,000	0	1,000	3,500	True	102	50	L-J5
L-J102	Low	1,000	8	1,008	3,508	True	102	50	L-J47
L-J135	Low	1,000	8	1,008	3,508	True	102	50	L-J5
L-J134	Low	1,000	0	1,000	3,500	True	102	50	L-J5
L-J429	Low	1,000	3	1,003	3,503	True	102	50	L-J47
L-J431	Low	1,000	3	1,003	3,503	True	102	50	L-J47
L-J430	Low	1,000	3	1,003	3,503	True	102	50	L-J47
H-J2	High	1,000	0	1,000	3,500	True	102	39	H-J117
L-J452	Low	1,000	2	1,002	3,502	True	102	50	L-J47
L-J432	Low	1,000	3	1,003	3,503	True	102	50	L-J47
L-J433	Low	1,000	3	1,003	3,503	True	102	50	L-J47
L-J500	Low	1,000	3	1,003	3,503	True	102	50	L-J47
J-27	MVE	0	1	1,001	3,033	True	102	102	J-29
L-J499	Low	1,000	3	1,003	3,503	True	102	50	L-J47
L-J127	Low	1,000	35	1,035	3,535	True	102	50	L-J47
L-J146	Low	1,000	0	1,000	3,500	True	102	50	L-J5
L-J128	Low	1,000	0	1,000	3,500	True	102	50	L-J47
L-J434	Low	1,000	4	1,004	3,504	True	102	50	L-J47
L-J130	Low	1,000	0	1,000	3,500	True	102	50	L-J47
L-J131	Low	1,000	2	1,002	3,502	True	102	50	L-J47
L-J178	Low	1,000	1	1,001	3,501	True	102	50	L-J5
J-4	Low	0	0	1,000	3,500	True	102	50	L-J47
L-J151	Low	1,000	1	1,001	3,501	True	102	50	L-J5
L-J129	Low	1,000	0	1,000	3,500	True	102	50	L-J47
L-J181	Low	1,000	1	1,001	3,501	True	102	50	L-J47
L-J180	Low	1,000	4	1,004	3,504	True	102	50	L-J47
L-J240	Low	1,000	2	1,002	3,502	True	102	51	L-J47
L-J243	Low	1,000	2	1,002	3,502	True	103	51	L-J47
L-J234	Low	1,000	2	1,002	3,502	True	103	51	L-J47
L-J101	Low	1,000	7	1,007	3,507	True	103	50	L-J47

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J530	Low	1,000	3	1,003	3,503	True	103	50	L-J47
L-J421	Low	1,000	0	1,000	3,500	True	103	50	L-J47
L-J241	Low	1,000	2	1,002	3,502	True	103	51	L-J47
L-J448	Low	1,000	2	1,002	3,502	True	103	50	L-J47
L-J435	Low	1,000	3	1,003	3,503	True	103	50	L-J47
L-J244	Low	1,000	2	1,002	3,502	True	103	51	L-J47
L-J115	Low	1,000	0	1,000	3,500	True	103	50	L-J47
L-J236	Low	1,000	2	1,002	3,502	True	103	51	L-J47
L-J246	Low	1,000	2	1,002	3,502	True	103	51	L-J47
J-30	Low	0	0	1,000	3,500	True	103	51	L-J47
L-J148	Low	1,000	84	1,084	3,584	True	103	50	L-J5
L-J232	Low	1,000	1	1,001	3,501	True	103	51	L-J47
L-J182	Low	1,000	6	1,006	3,506	True	103	50	L-J47
L-J247	Low	1,000	2	1,002	3,502	True	103	51	L-J47
L-J320	Low	1,000	3	1,003	3,503	True	103	50	L-J47
L-J147	Low	1,000	5	1,005	3,505	True	103	50	L-J5
L-J436	Low	1,000	0	1,000	3,500	True	103	50	L-J47
L-J305	Low	1,000	0	1,000	3,500	True	103	51	L-J47
L-J503	Low	1,000	3	1,003	3,503	True	103	50	L-J47
L-J504	Low	1,000	3	1,003	3,503	True	104	50	L-J47
L-J447	Low	1,000	1	1,001	3,501	True	104	50	L-J47
L-J238	Low	1,000	2	1,002	3,502	True	104	51	L-J47
L-J424	Low	1,000	1	1,001	3,501	True	104	50	L-J47
L-J224	Low	1,000	8	1,008	3,508	True	104	50	L-J47
L-J114	Low	1,000	2	1,002	3,502	True	104	50	L-J47
L-J304	Low	1,000	0	1,000	3,500	True	104	51	L-J47
L-J106	Low	1,000	5	1,005	3,505	True	104	50	L-J5
L-J443	Low	1,000	3	1,003	3,503	True	104	50	L-J47
L-J437	Low	1,000	4	1,004	3,504	True	104	50	L-J47
L-J150	Low	1,000	1	1,001	3,501	True	104	50	L-J5
J-26	Low	0	0	1,000	3,412	True	104	50	L-J47
L-J438	Low	1,000	0	1,000	3,500	True	104	50	L-J47
L-J442	Low	1,000	2	1,002	3,502	True	104	50	L-J47
L-J446	Low	1,000	3	1,003	3,503	True	104	50	L-J47
J-27	Low	0	0	1,000	3,500	True	104	51	L-J47
L-J444	Low	1,000	2	1,002	3,502	True	104	50	L-J47
L-J439	Low	1,000	3	1,003	3,503	True	104	50	L-J47
L-J100	Low	1,000	4	1,004	3,504	True	104	50	L-J47

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J445	Low	1,000	1	1,001	3,501	True	104	50	L-J47
L-J99	Low	1,000	2	1,002	3,502	True	104	50	L-J47
L-J440	Low	1,000	0	1,000	3,500	True	104	50	L-J47
L-J441	Low	1,000	3	1,003	3,503	True	104	50	L-J47
L-J422	Low	1,000	4	1,004	3,504	True	104	50	L-J47
L-J225	Low	1,000	2	1,002	3,502	True	104	51	L-J47
L-J228	Low	1,000	1	1,001	3,501	True	105	51	L-J47
L-J227	Low	1,000	2	1,002	3,502	True	105	51	L-J47
J-28	Low	0	0	1,000	3,500	True	105	51	L-J5
L-J149	Low	1,000	0	1,000	3,500	True	105	50	L-J5
L-J239	Low	1,000	2	1,002	3,502	True	105	51	L-J47
L-J242	Low	1,000	2	1,002	3,502	True	105	51	L-J47
L-J233	Low	1,000	2	1,002	3,502	True	105	51	L-J47
L-J226	Low	1,000	2	1,002	3,502	True	105	51	L-J47
L-J235	Low	1,000	2	1,002	3,502	True	105	51	L-J47
L-J245	Low	1,000	2	1,002	3,502	True	105	51	L-J47
L-J295	Low	1,000	0	1,000	3,500	True	105	51	L-J47
L-J294	Low	1,000	0	1,000	3,500	True	105	51	L-J47
L-J293	Low	1,000	0	1,000	3,500	True	106	51	L-J47
L-J231	Low	1,000	2	1,002	3,502	True	106	51	L-J47
L-J277	Low	1,000	0	1,000	3,500	True	106	51	L-J47
L-J237	Low	1,000	2	1,002	3,502	True	106	51	L-J47
L-J255	Low	1,000	4	1,004	3,504	True	106	51	L-J47
L-J268	Low	1,000	3	1,003	3,503	True	106	51	L-J47
L-J267	Low	1,000	2	1,002	3,502	True	106	51	L-J47
L-J274	Low	1,000	1	1,001	3,501	True	106	51	L-J47
L-J272	Low	1,000	4	1,004	3,504	True	106	51	L-J47
L-J254	Low	1,000	3	1,003	3,503	True	106	51	L-J47
L-J252	Low	1,000	4	1,004	3,504	True	107	51	L-J47
L-J266	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J261	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J265	Low	1,000	1	1,001	3,501	True	107	51	L-J47
L-J253	Low	1,000	4	1,004	3,504	True	107	51	L-J47
L-J260	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J259	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J262	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J256	Low	1,000	3	1,003	3,503	True	107	51	L-J47
L-J271	Low	1,000	4	1,004	3,504	True	107	51	L-J47

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J269	Low	1,000	6	1,006	3,506	True	107	51	L-J47
L-J263	Low	1,000	3	1,003	3,503	True	107	51	L-J47
L-J264	Low	1,000	3	1,003	3,503	True	107	51	L-J47
L-J230	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J270	Low	1,000	3	1,003	3,503	True	107	51	L-J47
L-J229	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J258	Low	1,000	3	1,003	3,503	True	107	51	L-J47
L-J248	Low	1,000	2	1,002	3,502	True	107	51	L-J47
L-J257	Low	1,000	3	1,003	3,503	True	108	51	L-J47
L-J249	Low	1,000	3	1,003	3,503	True	108	51	L-J47
L-J250	Low	1,000	3	1,003	3,503	True	108	51	L-J47
L-J567	Low	1,000	3	1,003	3,503	True	108	51	L-J47
L-J251	Low	1,000	0	1,000	3,500	True	109	51	L-J47
L-J273	Low	1,000	0	1,000	3,500	True	109	51	L-J47
L-J568	Low	1,000	3	1,003	3,503	True	109	51	L-J47
L-J292	Low	1,000	28	1,028	3,528	True	109	51	L-J47
L-J291	Low	1,000	0	1,000	3,500	True	109	51	L-J47
L-J289	Low	1,000	0	1,000	3,500	True	110	51	L-J47
L-J287	Low	1,000	0	1,000	3,500	True	110	51	L-J47
L-J290	Low	1,000	0	1,000	3,500	True	110	51	L-J47
L-J283	Low	1,000	0	1,000	3,500	True	110	51	L-J47
L-J286	Low	1,000	1	1,001	3,501	True	110	51	L-J47
L-J288	Low	1,000	1	1,001	3,501	True	110	51	L-J47
L-J282	Low	1,000	0	1,000	3,500	True	110	51	L-J47
L-J281	Low	1,000	1	1,001	3,501	True	110	51	L-J47
L-J284	Low	1,000	1	1,001	3,501	True	110	51	L-J47
L-J285	Low	1,000	0	1,000	3,500	True	110	51	L-J47
J-60	Low	0	0	1,000	3,500	True	116	51	L-J5
J-58	Low	0	0	1,000	3,500	True	122	51	L-J5

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J117	2,895.00	High	6	2,973.49	34
H-J116	2,891.00	High	6	2,973.49	36
H-J115	2,888.00	High	6	2,973.50	37
L-J5	2,736.00	Low	0	2,843.79	47
H-J118	2,870.00	High	6	2,973.49	45
L-J47	2,732.50	Low	3	2,838.35	46
H-J24	2,869.00	High	7	2,966.92	42
L-J48	2,733.50	Low	3	2,840.02	46
L-J334	2,732.50	Low	2	2,839.28	46
L-J201	2,733.00	Low	4	2,839.99	46
L-J46	2,728.00	Low	0	2,837.49	47
H-J119	2,866.00	High	6	2,973.50	47
L-J339	2,726.60	Low	3	2,837.70	48
L-J6	2,728.00	Low	0	2,843.52	50
H-J120	2,864.00	High	6	2,973.50	47
L-J340	2,726.00	Low	1	2,837.81	48
L-J335	2,727.00	Low	1	2,839.29	49
H-J25	2,862.00	High	8	2,966.92	45
H-J114	2,862.00	High	6	2,973.51	48
L-J474	2,730.00	Low	6	2,845.28	50
L-J341	2,723.80	Low	2	2,838.07	49
L-J196	2,727.50	Low	8	2,843.37	50
L-J195	2,728.00	Low	5	2,844.29	50
J-52	2,728.00	Low	0	2,844.30	50
L-J337	2,723.00	Low	2	2,838.41	50
L-J463	2,725.00	Low	3	2,840.92	50
L-J333	2,727.00	Low	1	2,845.32	51
L-J326	2,722.00	Low	3	2,839.32	51
L-J45	2,721.00	Low	2	2,838.15	51
L-J73	2,720.00	Low	1	2,838.43	51
L-J472	2,725.00	Low	6	2,845.28	52
L-J473	2,725.00	Low	6	2,845.31	52
L-J59	2,725.00	Low	23	2,845.32	52
L-J206	2,725.00	Low	0	2,845.57	52
L-J71	2,720.00	Low	0	2,839.35	52
L-J72	2,718.40	Low	2	2,838.45	52
J-41	2,730.00	High	0	2,859.26	56
J-42	2,730.00	High	0	2,859.26	56
J-43	2,730.00	High	0	2,859.26	56
L-J58	2,722.40	Low	6	2,844.30	53
L-J49	2,720.60	Low	5	2,842.48	53
H-J26	2,853.00	High	5	2,966.93	49
H-J99	2,853.00	High	3	2,973.71	52
H-J58	2,853.00	High	0	2,978.82	54
L-J44	2,718.50	Low	1	2,838.56	52

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J57	2,720.70	Low	6	2,843.37	53
H-J4	2,852.00	High	24	2,973.54	53
L-J331	2,719.00	Low	1	2,843.37	54
L-J565	2,720.00	Low	6	2,845.28	54
L-J51	2,717.30	Low	1	2,841.34	54
L-J56	2,715.90	Low	3	2,838.96	53
H-J3	2,850.20	High	0	2,973.54	53
L-J466	2,719.00	Low	6	2,845.28	55
L-J50	2,716.50	Low	5	2,841.76	54
L-J336	2,716.00	Low	1	2,841.34	54
L-J467	2,718.00	Low	6	2,845.28	55
L-J470	2,718.00	Low	6	2,845.28	55
L-J52	2,714.70	Low	3	2,840.94	55
H-J23	2,847.00	High	9	2,966.91	52
L-J55	2,712.80	Low	5	2,839.41	55
L-J468	2,716.00	Low	6	2,845.28	56
H-J48	2,722.00	High	0	2,859.85	60
L-J338	2,712.00	Low	1	2,840.94	56
L-J53	2,711.70	Low	3	2,840.55	56
L-J469	2,714.00	Low	6	2,845.28	57
L-J43	2,712.80	Low	5	2,838.58	54
L-J332	2,712.00	Low	1	2,842.51	56
L-J64	2,712.00	Low	3	2,843.37	57
H-J30	2,844.00	High	5	2,966.92	53
L-J54	2,709.10	Low	0	2,839.95	57
L-J465	2,712.00	Low	6	2,845.29	58
L-J464	2,712.00	Low	0	2,845.31	58
H-J29	2,842.00	High	1	2,966.93	54
L-J471	2,707.00	Low	6	2,841.34	58
H-J27	2,839.60	High	3	2,966.95	55
L-J74	2,715.70	Low	6	2,839.04	53
H-J33	2,839.00	High	1	2,966.94	55
L-J476	2,705.00	Low	6	2,840.94	59
L-J342	2,704.00	Low	0	2,840.84	59
L-J324	2,704.25	Low	2	2,842.55	60
H-J98	2,836.50	High	0	2,973.72	59
L-J580	2,705.00	Low	6	2,845.02	61
L-J475	2,703.00	Low	6	2,841.76	60
H-J57	2,836.00	High	3	2,973.96	60
L-J280	2,702.00	Low	20	2,839.94	60
L-J327	2,704.00	Low	0	2,845.02	61
L-J329	2,704.00	Low	0	2,845.02	61
L-J62	2,702.50	Low	7	2,844.22	61
H-J32	2,834.00	High	1	2,966.94	58
L-J477	2,700.00	Low	6	2,840.92	61

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Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J69	2,699.40	Low	1	2,839.95	61
L-J42	2,702.60	Low	4	2,838.55	59
L-J68	2,700.00	Low	0	2,841.76	61
L-J63	2,700.60	Low	4	2,843.37	62
H-J62	2,832.50	High	4	2,973.96	61
H-J34	2,831.60	High	3	2,966.97	59
L-J325	2,698.80	Low	1	2,842.59	62
L-J330	2,699.00	Low	1	2,843.37	62
L-J60	2,700.00	Low	4	2,845.02	63
J-1	2,697.00	Low	0	2,841.36	62
L-J65	2,697.00	Low	9	2,842.02	63
H-J97	2,829.70	High	4	2,965.58	59
L-J344	2,706.00	Low	1	2,839.04	58
L-J343	2,695.50	Low	1	2,839.95	62
L-J514	2,699.00	Low	6	2,838.53	60
L-J547	2,698.00	Low	6	2,845.02	64
H-J28	2,829.00	High	1	2,966.93	60
L-J66	2,696.00	Low	0	2,841.94	63
H-J88	2,828.00	High	5	2,973.71	63
L-J61	2,696.50	Low	3	2,845.02	64
J-47	2,700.00	Low	0	2,840.50	61
L-J67	2,694.00	Low	3	2,841.76	64
L-J41	2,696.30	Low	4	2,838.53	62
L-J75	2,716.00	Low	2	2,839.87	54
H-J31	2,825.00	High	1	2,966.92	61
H-J60	2,824.00	High	4	2,973.96	65
L-J363	2,700.00	Low	0	2,836.34	59
L-J479	2,691.00	Low	6	2,843.37	66
L-J561	2,689.00	Low	6	2,841.76	66
L-J7	2,690.00	Low	0	2,842.14	66
L-J8	2,690.00	Low	39	2,841.96	66
L-J40	2,692.00	Low	5	2,838.52	63
L-J516	2,718.00	Low	6	2,840.22	53
L-J352	2,720.00	Low	1	2,841.01	52
J-3	2,696.00	High	0	2,859.48	71
H-J96	2,820.00	High	3	2,956.67	59
H-J22	2,820.00	High	7	2,966.92	64
L-J515	2,714.00	Low	6	2,840.22	55
L-J39	2,688.00	Low	4	2,838.52	65
L-J205	2,691.00	Low	1	2,841.65	65
L-J351	2,720.00	Low	1	2,840.87	52
L-J577	2,718.00	Low	6	2,840.56	53
L-J564	2,693.00	Low	6	2,836.34	62
L-J563	2,692.00	Low	6	2,836.34	62
L-J362	2,692.00	Low	0	2,836.34	62

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J202	2,688.00	Low	0	2,841.81	67
L-J350	2,720.00	Low	3	2,840.82	52
L-J185	2,683.00	Low	0	2,842.14	69
L-J517	2,706.00	Low	6	2,841.36	59
J-2	2,706.00	Low	0	2,841.36	59
L-J17	2,684.80	Low	3	2,838.52	67
L-J345	2,684.00	Low	1	2,838.52	67
L-J559	2,685.00	Low	6	2,835.83	65
L-J510	2,683.00	Low	6	2,838.52	67
L-J347	2,683.50	Low	1	2,838.79	67
L-J349	2,683.50	Low	0	2,838.79	67
H-J95	2,812.00	High	7	2,946.01	58
H-J46	2,687.00	High	0	2,859.26	75
J-2	2,687.00	High	0	2,859.48	75
H-J109	2,687.00	High	6	2,859.56	75
L-J348	2,682.00	Low	0	2,838.79	68
L-J278	2,690.00	Low	16	2,836.35	63
L-J346	2,680.00	Low	1	2,838.52	69
L-J353	2,712.00	Low	1	2,840.87	56
L-J354	2,704.00	Low	1	2,841.14	59
H-J105	2,690.00	High	23	2,868.95	77
L-J562	2,678.00	Low	6	2,838.52	69
H-J4-A	2,799.00	High	0	2,890.35	40
L-J203	2,693.00	Low	0	2,841.44	64
H-J63	2,805.00	High	2	2,965.58	69
H-J111	2,682.00	High	6	2,861.45	78
H-J45	2,680.00	High	0	2,859.85	78
L-J361	2,680.00	Low	0	2,836.34	68
L-J360	2,680.00	Low	0	2,836.34	68
H-J64	2,803.00	High	3	2,956.67	66
L-J357	2,674.50	Low	0	2,835.83	70
H-J113	2,680.00	High	6	2,862.60	79
L-J359	2,678.00	Low	0	2,836.34	69
L-J356	2,673.50	Low	5	2,835.83	70
H-J51	2,679.00	High	3	2,862.60	79
L-J183	2,673.20	Low	5	2,835.99	70
L-J15	2,671.70	Low	1	2,835.72	71
L-J14	2,671.80	Low	0	2,835.84	71
L-J184	2,671.30	Low	1	2,835.83	71
H-J83	2,677.00	High	6	2,862.60	80
L-J358	2,675.00	Low	1	2,836.34	70
J-46	2,700.00	Low	0	2,841.22	61
L-J13	2,670.50	Low	41	2,835.99	72
L-J9	2,670.50	Low	3	2,836.37	72
L-J573	2,669.00	Low	6	2,836.39	72

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Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J79	2,678.00	High	18	2,866.20	81
H-J556-A	2,790.00	High	6	2,890.35	43
H-J61	2,796.50	High	3	2,973.96	77
L-J16	2,667.90	Low	0	2,835.49	73
L-J12	2,672.00	Low	5	2,836.34	71
L-J560	2,667.00	Low	6	2,835.72	73
L-J569	2,666.00	Low	6	2,834.93	73
H-J104	2,674.00	High	0	2,865.50	83
H-J44	2,794.00	High	3	2,973.95	78
H-J43	2,794.00	High	1	2,973.95	78
L-J11	2,670.00	Low	9	2,836.34	72
H-J82	2,671.00	High	6	2,862.98	83
H-J42	2,792.00	High	1	2,973.96	79
L-J10	2,668.20	Low	16	2,836.35	73
H-J49	2,668.00	High	3	2,861.45	84
H-J126	2,790.00	High	6	2,956.67	72
L-J513	2,661.00	Low	6	2,834.63	75
H-J81	2,668.00	High	30	2,863.49	85
J-23	2,665.00	High	0	2,859.32	84
L-J579	2,660.00	Low	6	2,834.50	76
L-J512	2,660.00	Low	6	2,834.63	76
H-J50	2,666.00	High	0	2,861.45	85
H-J56	2,774.00	High	0	2,877.97	45
L-J575	2,659.00	Low	6	2,834.76	76
J-48	2,700.00	Low	0	2,841.06	61
H-J84	2,664.00	High	0	2,860.59	85
L-J408	2,658.50	Low	1	2,834.94	76
H-155	2,787.00	High	6	2,973.95	81
L-J86	2,658.30	Low	4	2,834.82	76
L-J87	2,657.50	Low	1	2,834.78	77
L-J511	2,657.00	Low	6	2,834.63	77
H-J52	2,663.00	High	12	2,862.19	86
H-J65	2,785.00	High	2	2,946.01	70
H-J53	2,662.00	High	9	2,861.33	86
H-J112	2,662.00	High	6	2,861.55	86
L-J212	2,655.00	Low	2	2,834.44	78
L-J85	2,655.00	Low	6	2,834.53	78
L-J18	2,655.00	Low	22	2,834.75	78
H-J89	2,660.00	High	0	2,860.30	87
H-J110	2,659.00	High	6	2,858.95	87
H-J41	2,783.00	High	2	2,904.69	53
H-J130	2,783.00	High	6	2,973.95	83
H-J101	2,768.00	High	0	2,877.97	48
J-24	2,658.00	High	0	2,859.47	87
L-J525	2,654.00	Low	6	2,834.79	78

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PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J83	2,652.20	Low	3	2,834.31	79
L-J84	2,652.00	Low	3	2,834.31	79
L-J78	2,651.80	Low	3	2,834.21	79
H-J85	2,657.00	High	9	2,860.32	88
L-J526	2,653.00	Low	6	2,834.79	79
L-J77	2,651.00	Low	12	2,834.30	79
L-J204	2,703.00	Low	1	2,840.91	60
L-J412	2,652.00	Low	0	2,834.79	79
L-J76	2,650.20	Low	6	2,834.43	80
L-J19	2,649.80	Low	2	2,834.52	80
H-J131	2,778.00	High	6	2,946.01	73
L-J190	2,648.80	Low	4	2,834.30	80
L-J524	2,650.00	Low	6	2,834.79	80
L-J413	2,649.50	Low	0	2,834.79	80
L-J383	2,648.00	Low	2	2,834.12	81
L-J407	2,648.00	Low	1	2,834.60	81
L-J88	2,648.00	Low	14	2,834.60	81
H-J47	2,652.00	High	3	2,858.82	89
L-J189	2,647.80	Low	3	2,834.43	81
L-J90	2,647.80	Low	1	2,834.54	81
L-J166	2,649.00	Low	0	2,833.35	80
L-J411	2,648.50	Low	6	2,834.79	81
L-J38	2,648.50	Low	30	2,834.79	81
L-J382	2,647.00	Low	1	2,834.15	81
L-J89	2,647.00	Low	1	2,834.56	81
L-J20	2,646.50	Low	7	2,834.30	81
L-J211	2,646.00	Low	2	2,834.05	81
H-J90	2,650.00	High	36	2,858.65	90
L-J384	2,645.00	Low	3	2,834.06	82
H-J55	2,759.00	High	0	2,877.97	51
H-J86	2,650.00	High	21	2,860.40	91
L-J527	2,651.00	Low	6	2,830.57	78
L-J79	2,644.20	Low	6	2,834.05	82
L-J208	2,643.00	Low	6	2,833.53	82
L-J21	2,643.00	Low	3	2,833.53	82
L-J188	2,643.00	Low	1	2,834.56	83
H-J124	2,771.00	High	6	2,904.69	58
L-J388	2,642.00	Low	1	2,833.20	83
L-J389	2,642.00	Low	1	2,833.20	83
L-J80	2,642.10	Low	3	2,833.99	83
L-J179	2,642.00	Low	4	2,833.99	83
L-J137	2,648.00	Low	18	2,830.60	79
L-J367	2,683.00	Low	3	2,828.67	63
H-J40	2,770.00	High	3	2,904.69	58
H-134	2,758.00	High	6	2,882.56	54

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Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J542	2,655.00	Low	6	2,829.51	76
L-J157	2,684.00	Low	6	2,828.63	63
L-J366	2,682.00	Low	9	2,828.67	63
L-J81	2,640.20	Low	6	2,833.94	84
J-25	2,644.00	High	0	2,858.34	93
L-J213	2,683.00	Low	8	2,828.60	63
L-J368	2,656.00	Low	6	2,829.51	75
L-J541	2,661.00	Low	6	2,829.30	73
H-J108	2,767.00	High	6	2,900.91	58
H-J54	2,753.00	High	0	2,877.97	54
L-J165	2,640.00	Low	0	2,833.35	84
L-J414	2,640.00	Low	0	2,833.29	84
H-J94	2,767.00	High	11	2,904.69	60
L-J22	2,638.10	Low	2	2,833.28	84
L-J37	2,639.00	Low	41	2,833.48	84
L-J555	2,686.00	Low	6	2,828.63	62
H-J59	2,766.00	High	3	2,973.70	90
L-J176	2,638.50	Low	3	2,833.48	84
L-J154	2,653.50	Low	3	2,829.51	76
L-J372	2,650.00	Low	3	2,829.52	78
L-J145	2,636.20	Low	6	2,833.20	85
L-J369	2,658.00	Low	3	2,829.30	74
J-17	2,753.00	High	0	2,882.56	56
L-J82	2,635.80	Low	5	2,833.58	86
L-J406	2,635.70	Low	3	2,833.09	85
L-J23	2,635.70	Low	3	2,833.09	85
L-J210	2,635.00	Low	4	2,833.57	86
L-J174	2,636.40	Low	0	2,833.25	85
L-J155	2,656.50	Low	0	2,829.30	75
L-J543	2,649.00	Low	6	2,829.51	78
L-J36	2,636.00	Low	8	2,833.25	85
L-J167	2,636.00	Low	0	2,833.25	85
H-J73	2,756.00	High	5	2,890.35	58
L-J370	2,656.00	Low	3	2,829.30	75
H-135	2,751.00	High	6	2,882.56	57
L-J158	2,684.00	Low	0	2,828.63	63
J-26	2,628.00	Low	0	2,845.50	94
H-J72	2,755.00	High	0	2,890.62	59
L-J486	2,633.00	Low	6	2,832.98	87
L-J173	2,634.30	Low	3	2,833.03	86
L-J156	2,666.00	Low	25	2,828.88	70
L-J481	2,633.00	Low	6	2,832.52	86
L-J91	2,631.80	Low	1	2,833.20	87
H-136	2,749.00	High	6	2,882.56	58
L-J455	2,637.30	Low	0	2,830.06	83

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J404	2,632.00	Low	0	2,832.85	87
L-J405	2,632.00	Low	3	2,832.85	87
L-J35	2,633.00	Low	5	2,833.03	87
L-J487	2,631.00	Low	6	2,833.14	87
L-J488	2,631.00	Low	6	2,833.14	87
J-3	2,631.00	Low	0	2,833.20	87
H-154	2,760.00	High	6	2,973.70	92
H-J125	2,759.00	High	6	2,900.91	61
L-J365	2,684.00	Low	5	2,828.63	63
L-J175	2,632.50	Low	1	2,833.15	87
L-J529	2,636.00	Low	6	2,830.73	84
L-J172	2,632.20	Low	2	2,832.77	87
L-J139	2,635.80	Low	7	2,830.73	84
L-J489	2,630.00	Low	6	2,833.14	88
L-J385	2,630.00	Low	3	2,833.22	88
L-J143	2,632.00	Low	24	2,832.39	87
L-J485	2,630.00	Low	6	2,832.98	88
L-J142	2,631.70	Low	1	2,832.39	87
L-J141	2,631.50	Low	2	2,832.47	87
L-J544	2,642.00	Low	6	2,829.53	81
L-J374	2,642.00	Low	9	2,829.53	81
L-J144	2,631.50	Low	0	2,832.39	87
L-J496	2,628.00	Low	6	2,832.99	89
L-J34	2,631.20	Low	5	2,832.77	87
L-J491	2,629.00	Low	6	2,833.09	88
L-J490	2,629.00	Low	6	2,833.10	88
L-J492	2,629.00	Low	6	2,833.10	88
L-J493	2,629.00	Low	6	2,833.09	88
L-J386	2,629.00	Low	1	2,833.21	88
L-J171	2,630.80	Low	5	2,832.66	87
L-J371	2,642.00	Low	15	2,829.52	81
L-J33	2,630.20	Low	2	2,832.66	88
H-J13	2,742.00	High	3	2,877.00	58
L-J387	2,628.00	Low	1	2,833.15	89
H-J38	2,756.00	High	2	2,900.91	63
L-J207	2,682.00	Low	0	2,828.63	63
L-J373	2,640.00	Low	0	2,829.53	82
L-J136	2,633.00	Low	6	2,830.73	86
H-J12	2,741.00	High	2	2,877.00	59
H-J20	2,741.00	High	0	2,877.01	59
L-J403	2,628.00	Low	0	2,832.67	89
L-J24	2,628.00	Low	1	2,832.67	89
L-J390	2,627.00	Low	0	2,833.09	89
L-J187	2,628.00	Low	6	2,832.53	88
L-J480	2,628.00	Low	6	2,832.53	88

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-8	2,755.00	High	0	2,900.91	63
H-J107	2,755.00	High	6	2,900.91	63
L-J376	2,638.00	Low	6	2,829.56	83
L-J528	2,632.00	Low	6	2,830.73	86
H-J93	2,755.00	High	5	2,903.24	64
L-J391	2,626.00	Low	3	2,833.09	90
L-J170	2,628.00	Low	2	2,832.55	88
L-J169	2,628.00	Low	3	2,832.44	88
L-J32	2,627.80	Low	4	2,832.55	89
H-J18	2,739.00	High	0	2,877.01	60
L-J375	2,636.00	Low	18	2,829.56	84
L-J223	2,668.00	Low	9	2,828.52	69
H-J37	2,750.00	High	1	2,896.66	63
H-156	2,738.00	High	6	2,877.00	60
L-J484	2,625.00	Low	6	2,832.65	90
J-13	2,667.82	Low	0	2,828.52	70
L-J31	2,626.00	Low	9	2,832.44	89
L-J168	2,626.00	Low	5	2,832.31	89
H-J80	2,733.00	High	0	2,870.33	59
L-J111	2,618.50	Low	5	2,832.88	93
L-J478	2,667.00	Low	6	2,828.52	70
L-J27	2,624.50	Low	2	2,832.46	90
H-J15	2,737.00	High	0	2,877.01	61
H-J11	2,736.90	High	0	2,877.00	61
L-J25	2,624.00	Low	2	2,832.60	90
L-J402	2,624.00	Low	0	2,832.60	90
L-J409	2,620.00	Low	0	2,832.91	92
L-J26	2,624.00	Low	2	2,832.53	90
L-J401	2,624.00	Low	0	2,832.53	90
L-J94	2,620.00	Low	6	2,832.91	92
H-J10	2,736.60	High	0	2,877.00	61
L-J138	2,628.50	Low	11	2,830.72	87
L-J28	2,624.00	Low	0	2,832.40	90
L-J191	2,624.80	Low	5	2,832.26	90
L-J410	2,621.00	Low	0	2,832.99	92
L-J92	2,621.00	Low	1	2,832.99	92
J-23	2,740.10	High	0	2,883.56	62
L-J426	2,628.00	Low	5	2,830.72	88
L-J30	2,624.20	Low	9	2,832.32	90
L-J483	2,623.00	Low	6	2,832.65	91
J-22	2,740.00	High	0	2,883.67	62
J-21	2,740.00	High	0	2,883.76	62
L-J395	2,619.00	Low	0	2,832.90	93
L-J519	2,627.00	Low	6	2,830.87	88
L-J571	2,617.00	Low	6	2,832.88	93

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J522	2,624.00	Low	6	2,832.00	90
L-J392	2,620.00	Low	1	2,832.99	92
L-J214	2,665.00	Low	12	2,828.53	71
J-15	2,664.97	Low	0	2,828.52	71
H-J16	2,735.00	High	0	2,877.01	61
L-J507	2,622.00	Low	6	2,832.65	91
L-J578	2,623.00	Low	6	2,832.16	90
L-J93	2,618.00	Low	4	2,832.93	93
H-J9	2,734.20	High	0	2,877.01	62
L-J454	2,626.00	Low	0	2,830.06	88
H-J121	2,748.00	High	6	2,899.90	66
H-J8	2,733.90	High	3	2,877.01	62
L-J159	2,676.00	Low	0	2,828.63	66
J-20	2,738.00	High	0	2,883.78	63
L-J398	2,615.00	Low	1	2,832.88	94
L-J186	2,621.00	Low	3	2,832.46	91
L-J160	2,676.00	Low	2	2,828.63	66
L-J29	2,621.50	Low	148	2,832.16	91
L-J495	2,618.00	Low	6	2,832.99	93
L-J221	2,663.00	Low	0	2,828.53	72
L-J506	2,620.00	Low	6	2,832.65	92
L-J482	2,620.00	Low	6	2,832.65	92
H-J87	2,738.00	High	2	2,885.40	64
L-J521	2,621.00	Low	6	2,832.00	91
L-J520	2,623.00	Low	6	2,830.87	90
H-133	2,735.00	High	6	2,883.90	64
L-J509	2,612.00	Low	6	2,832.88	96
L-J133	2,619.20	Low	2	2,831.94	92
J-14	2,660.00	Low	0	2,828.52	73
L-J134	2,618.90	Low	1	2,831.84	92
L-J508	2,611.00	Low	6	2,832.88	96
L-J557	2,617.00	Low	6	2,832.46	93
H-J7	2,729.00	High	17	2,877.01	64
L-J177	2,610.00	Low	3	2,832.96	96
L-J135	2,619.00	Low	14	2,831.11	92
L-J400	2,610.00	Low	3	2,832.88	96
L-J109	2,610.00	Low	7	2,832.88	96
L-J397	2,610.00	Low	0	2,832.88	96
L-J364	2,672.00	Low	2	2,828.63	68
L-J194	2,619.00	Low	0	2,830.70	92
H-J123	2,742.00	High	6	2,899.90	68
H-J74	2,736.00	High	5	2,890.05	67
H-J39	2,742.00	High	1	2,900.91	69
H-J71	2,736.00	High	2	2,890.96	67
H-J122	2,741.00	High	6	2,899.90	69

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PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J494	2,610.00	Low	6	2,832.89	96
L-J417	2,608.00	Low	1	2,832.94	97
L-J415	2,608.00	Low	3	2,832.94	97
L-J416	2,608.00	Low	1	2,832.94	97
L-J321	2,609.90	Low	5	2,832.90	96
L-J396	2,608.00	Low	5	2,832.88	97
L-J323	2,609.40	Low	1	2,832.89	97
L-J105	2,607.80	Low	8	2,832.89	97
L-J110	2,607.80	Low	4	2,832.88	97
L-J209	2,615.00	Low	0	2,832.00	94
L-J162	2,607.00	Low	1	2,832.91	98
L-J322	2,608.70	Low	1	2,832.89	97
L-J377	2,606.80	Low	0	2,832.91	98
L-J108	2,607.00	Low	0	2,832.88	98
L-J161	2,669.00	Low	1	2,828.63	69
H-J70	2,735.00	High	1	2,892.45	68
L-J146	2,616.00	Low	0	2,830.70	93
L-J393	2,608.00	Low	2	2,832.88	97
L-J96	2,608.00	Low	1	2,832.88	97
L-J112	2,607.50	Low	2	2,832.89	98
L-J220	2,616.25	Low	30	2,830.06	93
L-J425	2,605.50	Low	2	2,832.94	98
L-J122	2,605.50	Low	1	2,832.94	98
J-36	2,605.00	Low	0	2,840.32	102
L-J215	2,654.00	Low	14	2,828.52	76
L-J199	2,620.00	Low	1	2,829.66	91
H-J69	2,733.90	High	0	2,893.67	69
L-J106	2,612.00	Low	8	2,832.14	95
L-J121	2,604.70	Low	3	2,832.95	99
L-J303	2,604.50	Low	0	2,841.10	102
L-J95	2,606.00	Low	5	2,832.89	98
J-39	2,604.00	Low	0	2,840.32	102
J-40	2,604.00	Low	0	2,840.32	102
L-J219	2,614.80	Low	0	2,830.06	93
L-J120	2,604.00	Low	0	2,832.96	99
L-J119	2,604.00	Low	4	2,832.97	99
H-J68	2,733.40	High	1	2,895.45	70
J-35	2,603.00	Low	0	2,840.32	103
J-37	2,603.00	Low	0	2,840.32	103
L-J163	2,603.00	Low	0	2,832.91	99
L-J104	2,603.00	Low	7	2,832.89	99
L-J502	2,603.00	Low	6	2,832.88	99
L-J123	2,602.50	Low	5	2,832.91	100
L-J558	2,604.00	Low	6	2,832.88	99
L-J147	2,612.00	Low	9	2,830.41	94

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Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J148	2,612.00	Low	147	2,830.29	94
J-38	2,602.00	Low	0	2,840.32	103
J-27	2,602.00	Low	0	2,842.98	104
L-J113	2,603.50	Low	5	2,832.88	99
J-28	2,602.00	Low	0	2,844.13	105
L-J193	2,602.00	Low	3	2,832.97	100
L-J399	2,602.00	Low	2	2,832.88	100
L-J498	2,603.00	Low	6	2,832.88	99
H-J76	2,722.00	High	134	2,879.34	68
L-J118	2,601.50	Low	1	2,832.97	100
H-J5	2,720.00	High	0	2,876.46	68
J-16	2,722.57	High	0	2,880.60	68
L-J218	2,612.00	Low	0	2,830.06	94
L-J222	2,650.00	Low	0	2,828.52	77
H-J67	2,732.00	High	1	2,896.66	71
L-J198	2,613.50	Low	1	2,829.88	94
H-J75	2,728.00	High	44	2,890.03	70
J-19	2,724.25	High	0	2,883.88	69
L-J124	2,601.00	Low	0	2,832.91	100
L-J378	2,601.00	Low	1	2,832.91	100
L-J97	2,602.30	Low	5	2,832.88	100
L-J153	2,615.50	Low	15	2,829.66	93
L-J546	2,612.00	Low	6	2,829.97	94
L-J116	2,600.50	Low	6	2,832.98	101
J-33	2,600.00	Low	0	2,840.32	104
L-J318	2,601.30	Low	3	2,832.88	100
H-J92	2,734.00	High	15	2,901.95	73
L-J132	2,600.00	Low	1	2,833.01	101
L-J423	2,600.00	Low	0	2,832.97	101
L-J178	2,609.50	Low	1	2,830.35	96
L-J379	2,599.80	Low	0	2,832.91	101
L-J380	2,599.80	Low	1	2,832.91	101
L-J103	2,600.00	Low	9	2,832.89	101
L-J107	2,600.00	Low	5	2,832.88	101
L-J545	2,612.00	Low	6	2,829.88	94
L-J197	2,611.00	Low	1	2,829.97	95
L-J117	2,599.50	Low	1	2,833.00	101
L-J298	2,599.00	Low	113	2,840.32	104
J-34	2,599.00	Low	0	2,840.32	104
J-31	2,599.00	Low	0	2,840.41	104
J-32	2,599.00	Low	0	2,840.41	104
L-J152	2,611.50	Low	4	2,829.88	94
H-J106	2,732.50	High	6	2,900.92	73
L-J418	2,599.00	Low	1	2,833.01	101
L-J501	2,600.00	Low	6	2,832.88	101

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Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J304	2,598.60	Low	0	2,841.10	105
L-J305	2,598.40	Low	0	2,841.10	105
L-J125	2,598.50	Low	2	2,832.91	101
L-J428	2,598.50	Low	4	2,833.27	102
L-J427	2,598.50	Low	1	2,833.24	102
L-J319	2,599.60	Low	6	2,832.88	101
L-J151	2,610.00	Low	1	2,829.97	95
H-J66	2,731.00	High	0	2,899.90	73
J-29	2,598.00	Low	0	2,840.48	105
J-30	2,598.00	Low	0	2,840.48	105
L-J98	2,599.30	Low	6	2,832.88	101
H-J77	2,717.00	High	35	2,877.02	69
L-J381	2,598.00	Low	1	2,832.91	102
L-J192	2,598.00	Low	8	2,832.97	102
L-J126	2,597.50	Low	4	2,832.91	102
H-J100	2,717.00	High	33	2,877.97	70
H-J6	2,715.90	High	0	2,876.46	69
L-J102	2,597.50	Low	14	2,832.89	102
L-J228	2,597.00	Low	1	2,839.91	105
L-J434	2,597.00	Low	6	2,834.54	103
L-J433	2,597.00	Low	6	2,834.25	103
L-J432	2,597.00	Low	5	2,834.08	103
L-J431	2,597.00	Low	5	2,833.88	102
L-J430	2,597.00	Low	5	2,833.71	102
L-J429	2,597.00	Low	5	2,833.59	102
L-J452	2,597.00	Low	4	2,833.43	102
L-J127	2,597.00	Low	62	2,833.29	102
L-J227	2,596.81	Low	3	2,839.67	105
L-J128	2,597.00	Low	0	2,833.18	102
L-J419	2,597.00	Low	1	2,833.04	102
L-J499	2,598.00	Low	6	2,832.88	102
L-J130	2,596.90	Low	1	2,833.05	102
L-J566	2,597.00	Low	6	2,832.88	102
L-J150	2,607.50	Low	1	2,830.07	96
L-J224	2,596.50	Low	14	2,837.07	104
L-J225	2,596.45	Low	3	2,838.67	105
L-J131	2,596.50	Low	3	2,833.04	102
L-J129	2,596.30	Low	1	2,833.07	102
L-J295	2,596.00	Low	0	2,840.54	106
L-J294	2,596.00	Low	0	2,840.62	106
J-7	2,645.00	Low	0	2,828.52	79
L-J293	2,596.00	Low	0	2,840.92	106
L-J182	2,596.00	Low	10	2,835.43	104
L-J435	2,596.00	Low	5	2,834.95	103
L-J277	2,595.87	Low	0	2,841.10	106

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J180	2,596.00	Low	7	2,833.03	103
J-5	2,644.75	Low	0	2,828.52	80
L-J420	2,596.00	Low	1	2,832.99	103
L-J500	2,597.00	Low	6	2,832.88	102
L-J115	2,596.70	Low	1	2,832.88	102
L-J164	2,595.80	Low	2	2,832.91	103
L-J200	2,596.00	Low	1	2,832.88	102
L-J149	2,606.00	Low	0	2,830.13	97
L-J234	2,595.11	Low	3	2,839.12	106
L-J241	2,595.11	Low	3	2,839.57	106
L-J240	2,595.11	Low	3	2,839.57	106
L-J101	2,595.50	Low	12	2,832.89	103
L-J226	2,594.93	Low	4	2,839.08	106
L-J449	2,595.00	Low	1	2,833.28	103
L-J320	2,596.00	Low	5	2,832.88	102
L-J450	2,594.00	Low	31	2,834.35	104
L-J453	2,594.00	Low	0	2,834.35	104
L-J236	2,593.81	Low	3	2,839.16	106
L-J243	2,593.81	Low	3	2,839.50	106
L-J244	2,593.81	Low	3	2,839.50	106
L-J114	2,595.00	Low	4	2,832.88	103
L-J533	2,594.00	Low	6	2,832.97	103
L-J233	2,593.66	Low	3	2,839.12	106
L-J239	2,593.66	Low	3	2,839.58	106
L-J540	2,642.00	Low	6	2,828.50	81
J-10	2,642.00	Low	0	2,828.52	81
L-J394	2,594.00	Low	7	2,832.87	103
J-4	2,594.00	Low	0	2,832.88	103
L-J532	2,593.00	Low	6	2,832.98	104
L-J534	2,593.00	Low	6	2,832.97	104
L-J503	2,593.00	Low	6	2,832.89	104
L-J504	2,593.00	Low	6	2,832.89	104
L-J238	2,592.41	Low	3	2,839.21	107
L-J246	2,592.41	Low	3	2,839.43	107
L-J247	2,592.41	Low	3	2,839.43	107
L-J235	2,592.36	Low	3	2,839.16	107
L-J242	2,592.36	Low	3	2,839.50	107
L-J550	2,712.00	Low	6	2,877.94	72
L-J549	2,712.00	Low	6	2,877.94	72
L-J216	2,641.00	Low	18	2,828.52	81
L-J99	2,593.20	Low	4	2,832.88	104
L-J100	2,592.30	Low	7	2,832.89	104
L-J181	2,592.00	Low	1	2,833.00	104
L-J443	2,591.60	Low	5	2,833.59	105
H-J91	2,706.00	High	50	2,870.33	71

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J442	2,591.10	Low	4	2,833.71	105
J-6	2,640.00	Low	0	2,828.52	82
J-8	2,640.00	Low	0	2,828.52	82
J-9	2,640.00	Low	0	2,828.52	82
J-11	2,640.00	Low	0	2,828.52	82
J-12	2,640.00	Low	0	2,828.52	82
L-J237	2,590.96	Low	3	2,839.21	107
L-J245	2,590.96	Low	3	2,839.43	108
L-J232	2,590.88	Low	1	2,839.38	108
L-J444	2,591.00	Low	4	2,833.47	105
L-J422	2,591.00	Low	7	2,832.97	105
L-J445	2,590.80	Low	2	2,833.39	105
L-J446	2,590.80	Low	5	2,833.35	105
L-J447	2,590.80	Low	1	2,833.34	105
L-J448	2,590.80	Low	3	2,833.32	105
L-J505	2,591.00	Low	6	2,832.89	105
L-J231	2,590.18	Low	3	2,839.38	108
L-J229	2,590.00	Low	4	2,839.27	108
L-J438	2,590.00	Low	0	2,834.11	106
L-J439	2,590.00	Low	6	2,834.02	106
L-J440	2,590.00	Low	0	2,833.93	106
L-J441	2,590.00	Low	6	2,833.83	105
L-J230	2,589.88	Low	3	2,839.27	108
H-J36	2,728.00	High	0	2,903.31	76
L-J421	2,590.00	Low	1	2,833.00	105
L-J424	2,590.00	Low	2	2,832.98	105
L-J436	2,589.20	Low	0	2,834.17	106
L-J437	2,589.20	Low	7	2,834.14	106
L-J255	2,588.70	Low	7	2,839.28	108
J-5	2,590.00	Low	0	2,832.87	105
L-J254	2,588.49	Low	5	2,839.28	109
L-J256	2,588.40	Low	6	2,839.28	109
L-J274	2,588.17	Low	2	2,839.28	109
L-J248	2,588.00	Low	4	2,839.28	109
L-J265	2,587.95	Low	2	2,839.28	109
L-J269	2,587.75	Low	10	2,839.28	109
L-J530	2,588.00	Low	6	2,832.98	106
L-J253	2,587.64	Low	7	2,839.28	109
L-J267	2,587.62	Low	3	2,839.28	109
L-J264	2,587.62	Low	6	2,839.28	109
L-J268	2,587.61	Low	5	2,839.28	109
L-J266	2,587.40	Low	3	2,839.28	109
L-J270	2,587.40	Low	6	2,839.29	109
L-J263	2,587.39	Low	5	2,839.28	109
L-J259	2,587.14	Low	3	2,839.28	109

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Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J262	2,587.12	Low	4	2,839.28	109
L-J567	2,587.00	Low	6	2,839.72	109
L-J260	2,586.85	Low	4	2,839.28	109
L-J258	2,586.85	Low	5	2,839.28	109
L-J251	2,586.71	Low	0	2,839.45	109
L-J273	2,586.60	Low	0	2,839.49	109
L-J257	2,586.58	Low	5	2,839.28	109
L-J249	2,586.56	Low	6	2,839.30	109
L-J261	2,586.54	Low	4	2,839.28	109
L-J272	2,586.54	Low	7	2,839.29	109
J-25	2,586.35	High	0	2,839.53	110
L-J568	2,586.00	Low	6	2,839.56	110
L-J250	2,585.96	Low	6	2,839.37	110
L-J217	2,635.00	Low	15	2,828.50	84
L-J252	2,585.73	Low	7	2,839.31	110
L-J271	2,585.70	Low	8	2,839.33	110
H-J2	2,721.00	High	1	2,902.47	79
L-J291	2,584.50	Low	0	2,839.55	110
L-J292	2,584.00	Low	49	2,839.56	111
L-J290	2,583.00	Low	0	2,839.53	111
L-J287	2,582.50	Low	1	2,839.52	111
L-J289	2,582.41	Low	0	2,839.52	111
H-J78	2,697.00	High	26	2,870.35	75
L-J281	2,582.00	Low	2	2,839.53	111
L-J282	2,582.00	Low	0	2,839.53	111
L-J283	2,581.90	Low	1	2,839.53	111
L-J284	2,581.70	Low	1	2,839.53	112
L-J288	2,581.70	Low	2	2,839.53	112
L-J285	2,581.40	Low	0	2,839.53	112
L-J548	2,701.00	Low	30	2,877.93	77
L-J551	2,701.00	Low	6	2,877.94	77
L-J552	2,701.00	Low	6	2,877.94	77
L-J553	2,701.00	Low	6	2,877.94	77
L-J286	2,581.20	Low	1	2,839.53	112
J-28	2,579.20	MVE	3	2,717.90	60
J-29	2,579.20	MVE	3	2,717.90	60
J-30	2,579.20	MVE	3	2,717.92	60
J-27	2,579.20	MVE	3	2,717.93	60
J-26	2,579.20	Low	0	2,834.17	110
L-J461	2,618.00	Low	0	2,828.50	91
L-J536	2,618.00	Low	6	2,828.50	91
L-J554	2,617.00	Low	6	2,828.50	92
J-6	2,617.00	Low	0	2,828.50	92
L-J539	2,616.00	Low	6	2,828.50	92
L-J460	2,616.00	Low	1	2,828.50	92

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-45	2,684.00	High	0	2,874.35	82
L-J462	2,615.00	Low	1	2,828.50	92
L-J459	2,613.70	Low	2	2,828.50	93
L-J275	2,611.60	Low	1	2,828.50	94
J-7	2,611.00	Low	0	2,828.50	94
L-J457	2,610.00	Low	1	2,828.50	95
J-1	2,610.00	Low	0	2,828.50	95
L-J456	2,609.10	Low	0	2,828.50	95
L-J276	2,608.90	Low	0	2,828.50	95
J-18	2,722.00	High	0	2,879.34	68

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Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P197	200	10.0	PVC	550	2.25	0.33	145.0
CV-L-P198	324	8.0	PVC	170	1.09	0.36	100.0
CV-L-P377	424	8.0	PVC	68	0.43	0.09	100.0
CV-L-P631	270	8.0	PVC	16	0.10	0.00	140.0
CV-L-P149	718	8.0	PVC	167	1.07	0.42	140.0
CV-L-P148	322	8.0	PVC	179	1.14	0.21	140.0
CV-L-P204	110	10.0	PVC	0	0.00	0.00	145.0
CV-L-P205	166	10.0	PVC	0	0.00	0.00	145.0
CV-H-P44	207	8.0	PVC	953	6.08	0.08	150.0
CV-H-P43	293	8.0	PVC	953	6.08	0.08	150.0
CV-L-P201	214	12.0	PVC	0	0.00	0.00	100.0
CV-H-P160	284	8.0	PVC	0	0.00	0.00	145.0
CV-H-P161	299	8.0	PVC	0	0.00	0.00	145.0
CV-L-P151	532	8.0	PVC	7	0.04	0.00	140.0
CV-L-P632	158	8.0	PVC	7	0.04	0.00	140.0
CV-L-P153	130	10.0	PVC	3	0.01	0.00	145.0
P-89	689	8.0	PVC	69	0.44	0.15	100.0
P-94	737	8.0	PVC	69	0.44	0.16	100.0
P-95	740	8.0	PVC	69	0.44	0.16	100.0
P-3	323	8.0	PVC	75	0.48	0.08	100.0
CV-L-P395	219	10.0	PVC	131	0.53	0.04	110.0
CV-L-P203	183	10.0	PVC	380	1.55	0.15	145.0
CV-L-P394	1,417	10.0	PVC	143	0.58	0.21	140.0
CV-L-P679	270	8.0	PVC	156	1.00	0.26	100.0
CV-L-P680	391	8.0	PVC	150	0.96	0.35	100.0
CV-L-P583	459	8.0	PVC	139	0.89	0.35	100.0
CV-L-P70	1,114	8.0	PVC	-137	0.87	0.83	100.0
CV-L-P69	560	8.0	PVC	-129	0.83	0.46	90.0
CV-L-P4	356	18.0	PVC	1,678	2.12	0.27	145.0
CV-L-P5	1,301	18.0	PVC	1,678	2.12	1.38	120.0
P-18	1,431	8.0	Ductile Iron	177	1.13	1.06	130.0
CV-L-P378	289	8.0	PVC	-92	0.58	0.05	145.0
CV-L-P379	364	8.0	PVC	-93	0.59	0.13	100.0
CV-L-P586	702	8.0	PVC	-94	0.60	0.13	145.0
CV-L-P381	801	8.0	PVC	95	0.61	0.30	100.0
CV-L-P633	632	6.0	PVC	4	0.04	0.00	145.0
CV-L-P152	115	10.0	PVC	7	0.03	0.00	145.0
CV-L-P365	216	12.0	PVC	546	1.55	0.21	120.0
CV-H-P1	165	14.0	PVC	1,886	3.93	0.56	140.0
P-87	1,345	14.0	PVC	1,886	3.93	4.00	150.0
P-53	129	14.0	PVC	1,810	3.77	0.35	150.0
P-54	382	14.0	PVC	1,810	3.77	1.05	150.0
CV-L-P202	176	16.0	PVC	0	0.00	0.00	100.0
CV-H-P76	961	14.0	PVC	1,787	3.72	2.75	145.0
CV-H-P77	232	14.0	PVC	1,769	3.69	0.70	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P78	584	14.0	PVC	1,769	3.69	2.01	130.0
CV-L-P292	1,706	12.0	PVC	16	0.04	0.00	140.0
CV-L-P41	465	12.0	PVC	71	0.20	0.02	90.0
CV-L-P8	2,112	12.0	PVC	58	0.17	0.02	145.0
CV-H-P121	118	16.0	PVC	2,311	3.69	0.47	110.0
CV-H-P122	138	16.0	PVC	2,311	3.69	0.55	110.0
CV-H-P117	260	16.0	PVC	2,284	3.65	1.02	110.0
CV-H-P95	836	16.0	PVC	2,267	3.62	3.24	110.0
CV-H-P96	459	16.0	PVC	2,265	3.61	1.21	135.0
CV-H-P97	460	16.0	PVC	2,264	3.61	1.78	110.0
CV-H-P98	460	16.0	PVC	2,264	3.61	1.22	135.0
CV-H-P99	387	16.0	PVC	2,263	3.61	1.49	110.0
CV-H-P45	1,000	16.0	PVC	953	1.52	0.83	120.0
CV-H-P70	1,058	16.0	PVC	952	1.52	0.53	140.0
CV-H-P103(2)	351	16.0	PVC	2,177	3.47	1.26	110.0
CV-L-P613	736	8.0	PVC	11	0.07	0.00	140.0
CV-L-P612	381	8.0	PVC	22	0.14	0.01	140.0
CV-H-P73	673	16.0	PVC	2,043	3.26	1.38	140.0
CV-L-P42	518	12.0	PVC	411	1.17	0.41	100.0
CV-L-P364	798	12.0	PVC	409	1.16	0.45	120.0
CV-L-P402	360	8.0	PVC	40	0.26	0.01	140.0
CV-H-P103(1)(2)	1,045	16.0	PVC	2,022	3.23	3.27	110.0
CV-L-P208	230	12.0	PVC	1,158	3.28	0.67	140.0
CV-H-P74	506	16.0	PVC	1,952	3.11	0.95	140.0
CV-L-P405	357	8.0	PVC	55	0.35	0.03	140.0
CV-L-P43	638	10.0	PVC	-406	1.66	0.86	120.0
P-136	1,197	16.0	PVC	1,886	3.01	2.11	140.0
CV-L-P664	245	8.0	PVC	92	0.59	0.05	140.0
CV-L-P665	246	8.0	PVC	92	0.59	0.05	140.0
CV-L-P404	720	8.0	PVC	78	0.50	0.10	140.0
CV-L-P88	459	8.0	PVC	78	0.50	0.06	140.0
CV-L-P67	714	8.0	PVC	188	1.20	0.51	140.0
CV-L-P147	1,108	8.0	PVC	94	0.60	0.22	140.0
CV-H-P103(1)(1)	2,321	16.0	PVC	1,847	2.95	6.15	110.0
CV-L-P146	360	8.0	PVC	105	0.67	0.09	140.0
CV-L-P128	937	12.0	PVC	568	1.61	0.73	140.0
CV-L-P145	360	8.0	PVC	112	0.72	0.10	140.0
P-46	206	16.0	Ductile Iron	1,604	2.56	0.31	130.0
P-49	9,825	16.0	PVC	-1,604	2.56	12.83	140.0
CV-H-P104	329	16.0	PVC	1,626	2.59	0.51	130.0
CV-L-P210	370	8.0	PVC	2	0.01	0.00	80.0
CV-L-P393	195	8.0	PVC	2	0.01	0.00	80.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-45	658	16.0	Ductile Iron	-1,467	2.34	0.83	130.0
CV-L-P7	3,450	14.0	PVC	1,087	2.27	5.59	120.0
CV-H-P162	805	16.0	PVC	-1,559	2.49	0.93	145.0
CV-L-P358	694	10.0	PVC	-370	1.51	0.92	110.0
CV-L-P6	145	14.0	PVC	1,127	2.35	0.18	145.0
CV-L-P206	153	12.0	PVC	-858	2.43	0.25	140.0
CV-H-P105	350	16.0	PVC	1,353	2.16	0.38	130.0
CV-L-P55	681	12.0	PVC	-810	2.30	1.02	140.0
CV-H-P61	1,231	16.0	PVC	1,339	2.14	1.15	140.0
CV-H-P62	810	16.0	PVC	1,330	2.12	0.86	130.0
CV-L-P127	230	12.0	PVC	413	1.17	0.10	140.0
P-81	1,730	8.0	Ductile Iron	-355	2.27	4.65	130.0
CV-H155	691	8.0	PVC	353	2.25	1.50	145.0
CV-L-P54	660	12.0	PVC	-783	2.22	0.93	140.0
CV-L-P53	660	12.0	PVC	-765	2.17	0.89	140.0
CV-L-P599	303	12.0	PVC	-183	0.52	0.03	145.0
CV-L-P589	910	12.0	PVC	242	0.69	0.14	145.0
CV-L-P209	135	15.0	PVC	1,158	2.10	0.00	140.0
CV-L-P588	1,424	12.0	PVC	253	0.72	0.25	140.0
CV-H-P110	267	16.0	PVC	1,142	1.82	0.29	110.0
CV-H156(2)	428	6.0	PVC	172	1.95	1.00	145.0
CV-L-P45	676	12.0	PVC	678	1.92	0.73	140.0
CV-L-P126	711	12.0	PVC	351	1.00	0.23	140.0
CV-L-P367	874	8.0	PVC	142	0.91	0.38	140.0
CV-L-P634	660	8.0	PVC	-140	0.90	0.26	145.0
CV-L-P366	277	8.0	PVC	-140	0.89	0.11	145.0
CV-L-P130	1,625	12.0	PVC	176	0.50	0.14	145.0
P-91	830	10.0	PVC	379	1.55	1.16	110.0
P-92	1,225	10.0	PVC	379	1.55	1.71	110.0
CV-L-P374	343	10.0	PVC	378	1.54	0.27	150.0
CV-H-P127	230	16.0	PVC	1,066	1.70	0.12	150.0
CV-H-P58	310	16.0	PVC	1,063	1.70	0.18	145.0
CV-H-P65	653	8.0	PVC	267	1.70	0.79	150.0
CV-L-P359	630	10.0	PVC	-338	1.38	0.71	110.0
CV-L-P89	426	8.0	PVC	43	0.27	0.02	140.0
P-13	837	6.0	Ductile Iron	155	1.75	1.96	130.0
P-47	1,031	12.0	PVC	-577	1.64	0.82	140.0
CV-L-P144	410	10.0	PVC	143	0.58	0.06	140.0
CV-L-P143	693	10.0	PVC	143	0.58	0.16	110.0
CV-H-P130	544	8.0	PVC	-255	1.63	0.65	145.0
P-4	176	8.0	PVC	-249	1.59	0.21	140.0
P-42	766	16.0	PVC	-975	1.56	0.37	145.0
CV-H-P66	1,013	8.0	PVC	-240	1.53	1.01	150.0
CV-L-P58	659	8.0	PVC	257	1.64	0.85	140.0
CV-L-P44	1,966	6.0	PVC	-119	1.35	2.46	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P519	1,062	8.0	PVC	198	1.26	0.84	140.0
CV-L-P520	1,215	8.0	PVC	194	1.24	0.93	140.0
CV-L-P698	668	8.0	PVC	248	1.58	0.81	140.0
CV-L-P347	654	8.0	PVC	247	1.57	0.78	140.0
P-44	299	16.0	Ductile Iron	-889	1.42	0.15	130.0
CV-L-P49	713	12.0	PVC	598	1.70	0.61	140.0
CV-L-P50	670	12.0	PVC	576	1.63	0.53	140.0
CV-H156(1)	250	6.0	PVC	130	1.48	0.35	145.0
CV-L-P36	458	12.0	PVC	-16	0.04	0.00	90.0
CV-L-P591	318	8.0	PVC	-155	0.99	0.16	140.0
CV-L-P37	448	12.0	PVC	-27	0.08	0.00	90.0
CV-L-P38	644	12.0	PVC	-39	0.11	0.01	90.0
CV-L-P685	271	8.0	PVC	-167	1.06	0.16	140.0
CV-H-P107	2,671	6.0	PVC	-114	1.29	3.09	140.0
CV-L-P24	445	12.0	PVC	220	0.62	0.06	140.0
CV-L-P25	1,778	12.0	PVC	220	0.62	0.24	140.0
CV-L-P39	697	12.0	PVC	-48	0.14	0.01	90.0
CV-L-P40	1,585	12.0	PVC	-53	0.15	0.03	90.0
CV-L-P23	443	12.0	PVC	231	0.66	0.06	140.0
CV-L-P22	411	12.0	PVC	251	0.71	0.07	140.0
CV-L-P21	448	12.0	PVC	253	0.72	0.08	140.0
CV-H-P55	1,026	8.0	PVC	188	1.20	0.74	140.0
CV-H-P124	406	8.0	PVC	188	1.20	0.29	140.0
CV-L-P12	354	10.0	PVC	263	1.07	0.15	145.0
CV-L-P141	428	10.0	PVC	300	1.23	0.28	130.0
CV-L-P140	716	10.0	PVC	301	1.23	0.42	140.0
CV-L-P348	683	8.0	PVC	205	1.31	0.58	140.0
CV-L-P13	292	10.0	PVC	251	1.03	0.11	145.0
CV-L-P46	664	12.0	PVC	506	1.44	0.42	140.0
CV-L-P344	1,325	8.0	PVC	31	0.19	0.03	140.0
CV-L-P440	808	12.0	PVC	283	0.80	0.17	140.0
CV-L-P47	660	12.0	PVC	498	1.41	0.40	140.0
CV-L-P543	454	12.0	PVC	286	0.81	0.13	120.0
CV-L-P14	639	10.0	PVC	245	1.00	0.24	145.0
CV-L-P670	1,488	10.0	PVC	244	1.00	0.55	145.0
CV-L-P557	501	8.0	PVC	26	0.16	0.01	140.0
CV-L-P48	660	12.0	PVC	488	1.38	0.39	140.0
CV-L-P444	323	10.0	PVC	-237	0.97	0.11	145.0
CV-L-P542	460	12.0	PVC	297	0.84	0.11	140.0
CV-L-P135	361	8.0	PVC	204	1.30	0.30	140.0
CV-L-P345	455	8.0	PVC	19	0.12	0.00	140.0
CV-L-P68	357	8.0	PVC	43	0.28	0.02	140.0
CV-L-P535	524	8.0	PVC	42	0.27	0.02	140.0
CV-L-P110	600	12.0	PVC	-30	0.08	0.00	140.0
CV-L-P668	2,456	12.0	PVC	30	0.09	0.01	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P362	1,263	8.0	PVC	-40	0.26	0.05	140.0
CV-H-P100	776	16.0	PVC	702	1.12	0.34	110.0
CV-H-P101	614	16.0	PVC	702	1.12	0.27	110.0
CV-L-P108	462	8.0	PVC	16	0.10	0.00	140.0
CV-L-P93	758	8.0	PVC	12	0.08	0.00	140.0
CV-H-P102	687	16.0	PVC	692	1.10	0.30	110.0
CV-L-P131	1,923	6.0	PVC	-25	0.28	0.12	145.0
CV-L-P142	286	10.0	PVC	242	0.99	0.13	130.0
P-21	2,264	4.0	PVC	-32	0.81	1.77	140.0
CV-L-P66	1,795	8.0	PVC	38	0.24	0.07	140.0
CV-L-P350	637	8.0	PVC	38	0.24	0.02	140.0
CV-L-P645	985	8.0	PVC	35	0.22	0.03	140.0
CV-L-P360	506	8.0	PVC	-34	0.21	0.01	145.0
CV-L-P442	186	12.0	PVC	-14	0.04	0.00	140.0
CV-L-P669	1,358	12.0	PVC	17	0.05	0.00	140.0
CV-L-P552	390	12.0	PVC	-23	0.06	0.00	140.0
CV-L-P31	300	12.0	PVC	-603	1.71	0.26	140.0
CV-L-P92	462	8.0	PVC	12	0.08	0.00	140.0
CV-L-P51	660	12.0	PVC	532	1.51	0.45	140.0
CV-L-P109	1,605	8.0	PVC	6	0.04	0.00	140.0
CV-L-P677	454	10.0	PVC	-147	0.60	0.07	145.0
CV-L-P90	2,280	8.0	PVC	20	0.12	0.02	140.0
CV-L-P32	310	12.0	PVC	-540	1.53	0.22	140.0
CV-L-P34	1,260	12.0	PVC	-666	1.89	1.31	140.0
CV-L-P33	310	12.0	PVC	-549	1.56	0.23	140.0
CV-L-P427	1,695	8.0	PVC	-17	0.11	0.01	140.0
CV-L-P445	161	8.0	PVC	17	0.11	0.00	140.0
CV-L-P555	419	8.0	PVC	17	0.11	0.00	140.0
CV-L-P346	556	8.0	PVC	-17	0.11	0.00	140.0
CV-L-P654	1,084	12.0	PVC	300	0.85	0.26	140.0
CV-L-P425	482	8.0	PVC	18	0.11	0.00	140.0
CV-L-P214	1,389	8.0	PVC	65	0.41	0.14	140.0
CV-L-P693	641	8.0	PVC	-65	0.41	0.06	140.0
CV-L-P558	538	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P676	429	10.0	PVC	-47	0.19	0.01	145.0
CV-L-P61	203	8.0	PVC	133	0.85	0.08	140.0
CV-L-P62	460	8.0	PVC	133	0.85	0.17	140.0
CV-L-P561	1,548	8.0	PVC	-4	0.03	0.00	140.0
CV-L-P696	1,513	12.0	PVC	267	0.76	0.29	140.0
CV-L-P87	1,399	8.0	PVC	48	0.31	0.08	140.0
CV-L-P564	460	12.0	PVC	-32	0.09	0.00	140.0
P-8	117	8.0	PVC	-39	0.25	0.00	140.0
P-1	1,330	8.0	PVC	119	0.76	0.41	140.0
P-2	1,408	8.0	PVC	119	0.76	0.43	140.0
CV-L-P686	1,378	8.0	PVC	-86	0.55	0.23	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P106	282	8.0	PVC	-93	0.59	0.09	110.0
CV-L-P368	1,011	8.0	PVC	-113	0.72	0.28	140.0
CV-L-P422	308	8.0	PVC	-113	0.72	0.09	140.0
CV-L-P692	606	8.0	PVC	86	0.55	0.10	140.0
CV-H-P125(1)	382	8.0	PVC	97	0.62	0.08	140.0
CV-H-P125(2)	1,044	8.0	PVC	97	0.62	0.22	140.0
CV-H-P126	1,496	8.0	PVC	97	0.62	0.31	140.0
CV-L-P185	1,109	8.0	PVC	91	0.58	0.21	140.0
CV-L-P451	548	8.0	PVC	-59	0.38	0.05	140.0
CV-L-P91	429	8.0	PVC	13	0.08	0.00	140.0
CV-H-P40	323	10.0	PVC	-1,487	6.08	6.75	100.0
P-43	1,433	8.0	PVC	-86	0.55	0.24	140.0
CV-L-P480	169	8.0	PVC	-205	1.31	0.14	140.0
CV-H-P111	157	16.0	PVC	-325	0.52	0.01	120.0
CV-L-P122	142	12.0	PVC	272	0.77	0.03	140.0
CV-L-P121	537	12.0	PVC	273	0.77	0.11	140.0
CV-L-P466	294	12.0	PVC	273	0.77	0.06	140.0
CV-L-P136	290	8.0	PVC	111	0.71	0.08	140.0
P-9	462	8.0	PVC	-70	0.45	0.05	140.0
CV-L-P459	2,159	12.0	PVC	-109	0.31	0.08	140.0
CV-L-P26	472	12.0	PVC	-352	1.00	0.15	140.0
CV-L-P35	2,122	14.0	PVC	-718	1.50	1.20	140.0
CV-H-P2	432	6.0	PVC	64	0.73	0.17	140.0
CV-L-P86	431	8.0	PVC	162	1.03	0.24	140.0
CV-L-P94	847	8.0	PVC	0	0.00	0.00	140.0
P-55	210	8.0	PVC	113	0.72	0.06	145.0
P-58	267	8.0	PVC	113	0.72	0.07	145.0
P-59	356	8.0	PVC	113	0.72	0.09	145.0
CV-L-P132	298	8.0	PVC	-41	0.26	0.01	145.0
CV-L-P343	427	8.0	PVC	-6	0.04	0.00	140.0
CV-H-P72	217	16.0	PVC	332	0.53	0.02	110.0
CV-L-P546	472	8.0	PVC	70	0.44	0.05	140.0
CV-L-P481	205	8.0	PVC	-195	1.25	0.16	140.0
CV-L-P27	375	12.0	PVC	-366	1.04	0.13	140.0
CV-L-P95	429	12.0	PVC	54	0.15	0.00	140.0
CV-L-P418	460	8.0	PVC	83	0.53	0.07	140.0
CV-L-P342	427	12.0	PVC	24	0.07	0.00	140.0
P-16	295	12.0	PVC	175	0.50	0.03	140.0
CV-L-P28	290	12.0	PVC	-379	1.07	0.11	140.0
CV-L-P468	141	8.0	PVC	-202	1.29	0.12	140.0
CV-L-P467	194	12.0	PVC	229	0.65	0.03	140.0
CV-L-P341	847	8.0	PVC	-4	0.02	0.00	140.0
CV-L-P29	290	12.0	PVC	-385	1.09	0.11	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P549	494	8.0	PVC	65	0.42	0.05	140.0
CV-L-P30	290	12.0	PVC	-392	1.11	0.11	140.0
CV-L-P175	183	12.0	PVC	-152	0.43	0.01	140.0
P-17	611	6.0	Ductile Iron	41	0.47	0.12	130.0
P-18	106	6.0	Ductile Iron	41	0.47	0.02	130.0
P-19	417	6.0	Ductile Iron	41	0.47	0.09	130.0
P-20	571	6.0	Ductile Iron	41	0.47	0.12	130.0
CV-L-P60	2,726	8.0	PVC	-63	0.40	0.26	140.0
CV-L-P469	210	8.0	PVC	-205	1.31	0.18	140.0
CV-L-P503	200	8.0	PVC	165	1.05	0.11	140.0
CV-L-P77	1,060	8.0	PVC	127	0.81	0.37	140.0
CV-H-P38	142	10.0	PVC	-1,434	5.86	1.39	145.0
CV-L-P501	203	8.0	PVC	174	1.11	0.13	140.0
CV-L-P502	203	8.0	PVC	169	1.08	0.12	140.0
CV-L-P82	243	8.0	PVC	86	0.55	0.04	145.0
CV-L-P471	141	8.0	PVC	-249	1.59	0.17	140.0
CV-H-P83	460	10.0	PVC	-1,428	5.83	8.91	100.0
CV-L-P504	193	8.0	PVC	147	0.94	0.09	140.0
CV-L-P83	1,152	8.0	PVC	85	0.54	0.18	145.0
CV-L-P470	207	8.0	PVC	-216	1.38	0.19	140.0
CV-L-P96	494	12.0	PVC	26	0.07	0.00	140.0
CV-L-P473	209	8.0	PVC	-322	2.06	0.41	140.0
CV-L-P196	820	12.0	PVC	-116	0.33	0.03	140.0
CV-L-P465	208	12.0	PVC	190	0.54	0.02	140.0
CV-L-P474	212	8.0	PVC	-351	2.24	0.48	140.0
CV-L-P229	404	8.0	PVC	-478	3.05	1.64	140.0
CV-L-P500	150	8.0	PVC	175	1.12	0.09	140.0
CV-L-P472	211	8.0	PVC	-267	1.70	0.29	140.0
CV-L-P416	1,176	8.0	PVC	118	0.75	0.36	140.0
CV-L-P311	156	12.0	PVC	502	1.42	0.18	100.0
CV-L-P312	269	12.0	PVC	502	1.42	0.31	100.0
CV-L-P313	69	12.0	PVC	502	1.42	0.08	100.0
CV-L-P71	509	8.0	PVC	86	0.55	0.09	140.0
CV-H-P82	460	10.0	PVC	-1,416	5.78	10.66	90.0
CV-L-P52	1,320	12.0	PVC	341	0.97	0.40	140.0
CV-L-P499	196	8.0	PVC	148	0.94	0.09	140.0
CV-H-P87	3,122	16.0	PVC	-1,599	2.55	14.62	70.0
CV-H-P85	1,036	16.0	PVC	-1,599	2.55	4.85	70.0
CV-L-P460	1,961	12.0	PVC	-104	0.29	0.07	140.0
P-51	2,715	16.0	PVC	-870	1.39	1.14	140.0
P-134	2,680	16.0	PVC	-870	1.39	1.13	140.0
P-135	597	16.0	PVC	-870	1.39	0.25	140.0
CV-L-P116	257	6.0	PVC	21	0.24	0.01	140.0
CV-L-P84	375	8.0	PVC	71	0.46	0.05	140.0
CV-L-P695	253	8.0	PVC	104	0.67	0.06	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P72	930	8.0	PVC	77	0.49	0.13	140.0
CV-L-P85	202	8.0	PVC	70	0.45	0.02	140.0
CV-L-P172	1,196	8.0	PVC	-48	0.30	0.06	145.0
CV-H-P142	213	6.0	PVC	40	0.46	0.04	140.0
CV-L-P217	589	8.0	PVC	-102	0.65	0.14	140.0
CV-L-P498	203	8.0	PVC	141	0.90	0.09	140.0
CV-L-P101	1,366	12.0	PVC	-73	0.21	0.02	140.0
CV-L-P452	1,113	8.0	PVC	-37	0.23	0.04	140.0
CV-L-P173	1,150	8.0	PVC	-49	0.31	0.06	145.0
CV-L-P462	511	8.0	PVC	-24	0.15	0.01	145.0
CV-H-P81	1,819	10.0	PVC	-1,401	5.72	41.32	90.0
CV-H-P86	70	16.0	PVC	-1,570	2.50	0.25	80.0
CV-L-P218	387	10.0	PVC	109	0.44	0.03	140.0
CV-L-P117	731	6.0	PVC	18	0.20	0.03	140.0
CV-L-P97	426	12.0	PVC	-3	0.01	0.00	140.0
CV-L-P78	460	8.0	PVC	-97	0.62	0.10	140.0
CV-L-P578	925	10.0	PVC	-133	0.55	0.12	140.0
CV-L-P257	160	8.0	PVC	-156	0.99	0.08	140.0
CV-L-P255	233	8.0	PVC	-26	0.16	0.00	140.0
CV-L-P349	891	8.0	PVC	-41	0.26	0.04	140.0
CV-L-P497	196	8.0	PVC	92	0.59	0.04	140.0
CV-L-P521	197	6.0	PVC	33	0.38	0.02	140.0
CV-L-P659	989	8.0	PVC	39	0.25	0.04	140.0
CV-L-P505	163	8.0	PVC	99	0.63	0.04	140.0
P-50	7,933	18.0	PVC	-870	1.10	1.88	140.0
CV-L-P74	1,122	8.0	PVC	77	0.49	0.16	140.0
CV-L-P356	846	8.0	PVC	-37	0.24	0.03	140.0
CV-L-P559	457	12.0	PVC	20	0.06	0.00	140.0
CV-L-P107	460	8.0	PVC	1	0.01	0.00	140.0
CV-L-P98	460	12.0	PVC	-23	0.06	0.00	140.0
P-137 -EST	323	8.0	PVC	59	0.38	0.03	140.0
CV-L-P413	426	8.0	PVC	76	0.49	0.06	140.0
CV-L-P454	432	8.0	PVC	-26	0.16	0.01	140.0
CV-L-P414	260	8.0	PVC	76	0.48	0.03	140.0
CV-L-P607	1,534	8.0	PVC	-26	0.17	0.03	140.0
CV-L-P111	357	8.0	PVC	-50	0.32	0.02	140.0
CV-L-P73	1,089	8.0	PVC	60	0.38	0.09	140.0
CV-L-P587	403	8.0	PVC	-74	0.47	0.05	140.0
CV-L-P113	195	8.0	PVC	34	0.22	0.01	140.0
CV-L-P577	979	10.0	PVC	-116	0.47	0.10	140.0
CV-L-P168	980	8.0	PVC	-71	0.45	0.12	140.0
CV-L-P176	787	8.0	PVC	41	0.26	0.03	140.0
CV-L-P415	1,014	8.0	PVC	-71	0.45	0.12	140.0
CV-L-P115	251	6.0	PVC	16	0.19	0.01	140.0
CV-L-P690	312	8.0	PVC	72	0.46	0.04	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-3	3,986	12.0	PVC	-368	1.05	1.39	140.0
CV-L-P691	845	8.0	PVC	72	0.46	0.10	140.0
CV-L-P450	525	8.0	PVC	73	0.46	0.06	140.0
CV-L-P158	974	8.0	PVC	73	0.47	0.12	140.0
CV-L-P75	580	8.0	PVC	69	0.44	0.07	140.0
CV-L-P674	1,143	10.0	PVC	385	1.57	1.64	110.0
CV-L-P11	125	12.0	PVC	1,026	2.91	0.39	120.0
CV-L-P496	206	8.0	PVC	76	0.49	0.03	140.0
CV-L-P694	307	10.0	PVC	110	0.45	0.03	140.0
CV-H-P41	306	8.0	PVC	-51	0.32	0.02	150.0
CV-L-P99	920	12.0	PVC	-37	0.11	0.00	140.0
CV-H-P112	416	8.0	PVC	50	0.32	0.03	140.0
CV-L-P114	313	8.0	PVC	27	0.17	0.01	140.0
CV-L-P673	1,446	10.0	PVC	391	1.60	2.13	110.0
CV-L-P18	1,033	10.0	PVC	345	1.41	0.77	140.0
CV-L-P244	334	8.0	PVC	112	0.72	0.09	140.0
CV-H-P138	107	6.0	PVC	-25	0.29	0.01	140.0
CV-L-P219	2,204	12.0	PVC	101	0.29	0.07	140.0
CV-L-P76	460	8.0	PVC	62	0.39	0.04	140.0
CV-L-P260	195	8.0	PVC	-3	0.02	0.00	140.0
CV-H-P26	401	6.0	PVC	-25	0.28	0.02	150.0
CV-L-P238	335	8.0	PVC	-73	0.46	0.04	140.0
CV-L-P234	1,284	8.0	PVC	-155	0.99	0.61	145.0
CV-L-P678	837	8.0	PVC	-94	0.60	0.16	145.0
CV-H-P3	79	6.0	PVC	24	0.27	0.01	140.0
CV-L-P443	329	8.0	PVC	-93	0.59	0.06	140.0
CV-L-P20	897	12.0	PVC	286	0.81	0.20	140.0
CV-H-P35	246	6.0	PVC	23	0.26	0.01	150.0
CV-L-P235	304	8.0	PVC	10	0.06	0.00	140.0
P-74	132	6.0	PVC	25	0.28	0.01	140.0
CV-L-P475	749	8.0	PVC	-45	0.29	0.04	140.0
CV-L-P550	269	12.0	PVC	54	0.15	0.00	140.0
CV-L-P247	314	8.0	PVC	104	0.67	0.08	140.0
CV-L-P240	314	8.0	PVC	-79	0.50	0.05	140.0
CV-L-P102	1,443	8.0	PVC	15	0.10	0.01	140.0
CV-L-P493	903	6.0	PVC	44	0.50	0.18	140.0
CV-H-P36	266	6.0	PVC	20	0.23	0.01	150.0
P-6	264	12.0	PVC	48	0.14	0.00	140.0
CV-L-P649	894	12.0	PVC	-264	0.75	0.16	145.0
CV-L-P261	283	8.0	PVC	53	0.34	0.02	140.0
CV-L-P494	944	6.0	PVC	42	0.48	0.18	140.0
CV-L-P57	2,726	6.0	PVC	16	0.18	0.08	140.0
CV-L-P523	278	6.0	PVC	18	0.21	0.01	140.0
CV-H-P25	260	6.0	PVC	-20	0.22	0.01	150.0
CV-L-P423	390	12.0	PVC	-45	0.13	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-30-MV	67	3.0	PVC	-5	0.22	0.01	150.0
CV-L-P506	190	8.0	PVC	51	0.32	0.01	140.0
P-23	733	8.0	PVC	99	0.63	0.16	140.0
CV-L-P314	872	12.0	PVC	388	1.10	0.62	100.0
CV-L-P603	1,541	8.0	PVC	20	0.13	0.02	140.0
CV-L-P16	465	10.0	PVC	277	1.13	0.23	140.0
CV-L-P233	346	12.0	PVC	-387	1.10	0.25	100.0
CV-H-P31	260	6.0	PVC	18	0.21	0.01	150.0
CV-L-P118	148	8.0	PVC	11	0.07	0.00	140.0
CV-L-P288	72	10.0	PVC	-299	1.22	0.04	140.0
CV-L-P476	1,116	8.0	PVC	-39	0.25	0.04	140.0
CV-L-P478	1,760	8.0	PVC	-43	0.27	0.08	140.0
CV-L-P409	300	8.0	PVC	10	0.06	0.00	140.0
CV-L-P457	443	8.0	PVC	22	0.14	0.01	140.0
CV-L-P230	2,673	12.0	PVC	-493	1.40	1.59	140.0
CV-L-P242	314	8.0	PVC	-85	0.54	0.05	140.0
CV-L-P256	302	8.0	PVC	-97	0.62	0.06	140.0
CV-L-P410	290	8.0	PVC	9	0.06	0.00	140.0
CV-L-P699	702	8.0	PVC	12	0.07	0.00	145.0
CV-H-P6	420	8.0	PVC	30	0.19	0.01	140.0
CV-L-P250	314	8.0	PVC	96	0.61	0.07	140.0
CV-L-P534	603	6.0	PVC	-19	0.21	0.02	140.0
P-7	397	8.0	PVC	31	0.20	0.01	140.0
CV-L-P479	1,757	8.0	PVC	-47	0.30	0.10	140.0
CV-L-P507	389	8.0	PVC	41	0.26	0.02	140.0
CV-L-P438	187	8.0	PVC	29	0.18	0.00	140.0
CV-L-P539	794	8.0	PVC	29	0.18	0.02	140.0
CV-L-P339	887	8.0	PVC	5	0.03	0.00	140.0
CV-L-P19	847	12.0	PVC	336	0.95	0.25	140.0
CV-L-P417	520	8.0	PVC	31	0.20	0.01	140.0
CV-L-P283	579	8.0	PVC	52	0.33	0.04	140.0
CV-L-P435	1,250	8.0	PVC	-14	0.09	0.01	140.0
CV-L-P431	430	8.0	PVC	-7	0.05	0.00	140.0
CV-L-P119	292	8.0	PVC	6	0.04	0.00	140.0
CV-L-P262	135	8.0	PVC	31	0.20	0.00	140.0
CV-L-P9	370	8.0	PVC	27	0.17	0.01	140.0
CV-L-P428	1,105	8.0	PVC	5	0.03	0.00	140.0
CV-H-P88	367	8.0	PVC	26	0.17	0.01	145.0
CV-L-P254	320	8.0	PVC	-90	0.58	0.06	140.0
CV-H-P137	145	6.0	PVC	-14	0.16	0.00	140.0
CV-L-P125	371	12.0	PVC	112	0.32	0.01	140.0
CV-L-P477	960	4.0	PVC	-8	0.21	0.06	140.0
CV-L-P648(1)	227	12.0	PVC	228	0.65	0.03	145.0
CV-L-P124	618	12.0	PVC	115	0.32	0.02	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P602	2,188	8.0	PVC	17	0.11	0.02	140.0
CV-L-P688	471	8.0	PVC	-8	0.05	0.00	140.0
CV-L-P137	290	8.0	PVC	24	0.15	0.00	140.0
CV-L-P458	207	8.0	PVC	18	0.12	0.00	140.0
CV-L-P434	977	8.0	PVC	12	0.08	0.00	140.0
CV-L-P123	219	12.0	PVC	119	0.34	0.01	140.0
CV-H-P33	260	6.0	PVC	13	0.14	0.00	150.0
CV-L-P621	164	8.0	PVC	22	0.14	0.00	140.0
CV-H-P80	650	16.0	PVC	-1,379	2.20	1.45	90.0
CV-L-P253	300	8.0	PVC	88	0.56	0.05	140.0
CV-L-P573	770	8.0	PVC	0	0.00	0.00	140.0
CV-L-P226	253	12.0	PVC	49	0.14	0.00	145.0
CV-L-P17	880	10.0	PVC	189	0.77	0.22	140.0
CV-L-P120	367	8.0	PVC	0	0.00	0.00	140.0
CV-H-P79	580	16.0	PVC	-1,374	2.19	1.29	90.0
CV-H-P118	824	8.0	PVC	21	0.13	0.01	145.0
CV-L-P284	395	8.0	PVC	45	0.28	0.02	140.0
CV-L-P491	80	8.0	PVC	42	0.27	0.00	140.0
CV-L-P279	324	8.0	PVC	4	0.03	0.00	140.0
CV-L-P648(2)	256	12.0	PVC	250	0.71	0.04	145.0
CV-L-P103	1,788	8.0	PVC	9	0.06	0.00	140.0
CV-L-P429	913	8.0	PVC	9	0.06	0.00	140.0
CV-L-P689	193	8.0	PVC	-9	0.06	0.00	140.0
CV-H-P24	270	6.0	PVC	-11	0.13	0.00	150.0
CV-L-P222	1,976	12.0	PVC	43	0.12	0.01	140.0
CV-L-P223	933	10.0	PVC	30	0.12	0.01	140.0
CV-L-P224	214	10.0	PVC	30	0.12	0.00	140.0
CV-L-P225	392	10.0	PVC	30	0.12	0.00	140.0
P-31-MV	1,014	3.0	PVC	-3	0.12	0.03	150.0
CV-L-P10	334	8.0	PVC	19	0.12	0.00	140.0
CV-L-P171	1,559	8.0	PVC	-11	0.07	0.01	140.0
CV-L-P259	632	8.0	PVC	-1	0.01	0.00	140.0
CV-L-P133	302	8.0	PVC	18	0.12	0.00	145.0
CV-L-P236	660	8.0	PVC	-84	0.54	0.11	140.0
P-26-L	37	6.0	PVC	10	0.11	0.00	150.0
P-26-MV	42	6.0	PVC	10	0.11	0.00	150.0
CV-L-P490	886	6.0	PVC	117	1.33	1.08	140.0
CV-L-P220	964	12.0	PVC	40	0.11	0.01	120.0
CV-L-P647	259	8.0	PVC	-30	0.19	0.01	145.0
CV-L-P570	505	8.0	PVC	17	0.11	0.00	140.0
CV-H-P143	436	8.0	PVC	17	0.11	0.00	145.0
CV-L-P531	1,265	6.0	PVC	-9	0.10	0.01	140.0
CV-L-P489	1,770	4.0	PVC	24	0.60	0.80	140.0
P-29-MV	984	3.0	PVC	-2	0.11	0.02	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P281	297	8.0	PVC	-32	0.21	0.01	140.0
CV-H-P132	939	6.0	PVC	9	0.11	0.01	140.0
CV-L-P533	247	6.0	PVC	8	0.09	0.00	140.0
CV-L-P620	1,126	8.0	PVC	-16	0.10	0.01	140.0
CV-L-P482	1,769	6.0	PVC	-14	0.16	0.04	140.0
CV-L-P227	1,182	12.0	PVC	35	0.10	0.00	145.0
CV-L-P672(2)	678	12.0	PVC	-35	0.10	0.00	145.0
CV-L-P672(1)	485	12.0	PVC	-35	0.10	0.00	145.0
CV-L-P231	301	10.0	PVC	-341	1.39	0.41	100.0
CV-H-P133	152	6.0	PVC	9	0.10	0.00	140.0
CV-L-P232	660	10.0	PVC	-272	1.11	0.59	100.0
CV-L-P488	1,781	6.0	PVC	49	0.56	0.43	140.0
CV-L-P170	1,408	8.0	PVC	-7	0.05	0.00	140.0
CV-L-P627	419	8.0	PVC	15	0.10	0.00	140.0
CV-L-P105	1,130	8.0	PVC	8	0.05	0.00	140.0
CV-L-P403	228	8.0	PVC	15	0.09	0.00	140.0
CV-H-P108	929	8.0	PVC	15	0.09	0.01	145.0
CV-L-P263	135	8.0	PVC	16	0.10	0.00	140.0
CV-L-P625	960	8.0	PVC	-14	0.09	0.01	140.0
CV-L-P285	454	8.0	PVC	37	0.24	0.02	140.0
CV-L-P280	569	8.0	PVC	4	0.02	0.00	140.0
CV-H-P7	334	8.0	PVC	13	0.08	0.00	140.0
CV-H-P90	460	8.0	PVC	13	0.08	0.00	145.0
CV-L-P104	1,969	8.0	PVC	10	0.06	0.01	140.0
P-11	322	6.0	PVC	7	0.08	0.00	140.0
CV-H-P136	152	6.0	PVC	-7	0.07	0.00	140.0
CV-L-P258	122	8.0	PVC	6	0.04	0.00	140.0
CV-L-P221	927	12.0	PVC	26	0.07	0.00	100.0
CV-L-P461	268	8.0	PVC	12	0.07	0.00	145.0
CV-L-P580	500	8.0	PVC	12	0.07	0.00	140.0
CV-H-P84	923	10.0	PVC	18	0.07	0.01	100.0
CV-L-P178	547	8.0	PVC	11	0.07	0.00	145.0
CV-L-P181	478	10.0	PVC	18	0.07	0.00	140.0
CV-L-P486	1,774	6.0	PVC	27	0.31	0.15	140.0
CV-H-P8	47	8.0	PVC	11	0.07	0.00	140.0
CV-L-P397	441	6.0	PVC	6	0.07	0.00	145.0
CV-L-P687	420	8.0	PVC	-12	0.07	0.00	140.0
CV-L-P282	422	8.0	PVC	-38	0.24	0.02	140.0
CV-L-P532	1,134	6.0	PVC	-6	0.07	0.01	140.0
CV-H157	469	6.0	PVC	6	0.07	0.00	145.0
CV-L-P309	570	8.0	PVC	13	0.08	0.00	145.0
CV-L-P513	1,759	12.0	PVC	23	0.06	0.00	140.0
CV-L-P287	1,262	10.0	PVC	-143	0.59	0.17	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P89	939	8.0	PVC	10	0.06	0.00	145.0
P-100	464	6.0	PVC	5	0.06	0.00	140.0
P-101	436	6.0	PVC	5	0.06	0.00	140.0
CV-L-P522	771	6.0	PVC	-7	0.08	0.01	140.0
CV-H-P22	928	6.0	PVC	5	0.06	0.00	150.0
CV-L- P228(1)	417	10.0	PVC	14	0.06	0.00	145.0
CV-L-P180	601	8.0	PVC	9	0.06	0.00	140.0
CV-H-P109	2,045	8.0	PVC	9	0.06	0.01	145.0
P-20	381	8.0	PVC	9	0.06	0.00	150.0
P-21	193	8.0	Ductile Iron	9	0.06	0.00	130.0
CV-L-P548	217	8.0	PVC	17	0.11	0.00	140.0
CV-H-P139	759	6.0	PVC	5	0.06	0.00	140.0
CV-L-P296	1,166	12.0	PVC	20	0.06	0.00	140.0
CV-L-P398	136	8.0	PVC	9	0.06	0.00	120.0
CV-L-P433	464	8.0	PVC	2	0.01	0.00	140.0
CV-H-P134	127	6.0	PVC	5	0.06	0.00	140.0
CV-L-P484	1,778	6.0	PVC	-2	0.02	0.00	140.0
CV-L-P268	118	8.0	PVC	-5	0.03	0.00	140.0
CV-L-P190	881	8.0	PVC	8	0.05	0.00	140.0
CV-H-P92	715	8.0	PVC	8	0.05	0.00	145.0
CV-H-P54	1,419	8.0	PVC	8	0.05	0.00	150.0
CV-L-P524	973	6.0	PVC	4	0.05	0.00	140.0
CV-L-P464	771	6.0	PVC	5	0.05	0.00	140.0
CV-L-P560	465	12.0	PVC	18	0.05	0.00	140.0
CV-H-P93	1,131	8.0	PVC	8	0.05	0.00	145.0
CV-L-P447	269	12.0	PVC	17	0.05	0.00	140.0
CV-L-P567	436	12.0	PVC	-17	0.05	0.00	140.0
CV-L-P276	386	8.0	PVC	9	0.06	0.00	140.0
CV-L-P186	721	8.0	PVC	8	0.05	0.00	140.0
CV-H-P23	1,037	6.0	PVC	-4	0.05	0.00	150.0
CV-H-P34	659	6.0	PVC	4	0.05	0.00	150.0
CV-L-P139	642	8.0	PVC	7	0.05	0.00	140.0
CV-L-P307	509	8.0	PVC	-43	0.28	0.02	145.0
CV-L-P59	1,385	8.0	PVC	0	0.00	0.00	140.0
CV-L- P228(2)	639	10.0	PVC	11	0.05	0.00	145.0
CV-L-P527	173	6.0	PVC	-4	0.04	0.00	140.0
CV-L-P184	593	6.0	PVC	4	0.05	0.00	140.0
CV-L-P215	759	6.0	PVC	4	0.05	0.00	140.0
CV-L-P386	380	8.0	PVC	7	0.05	0.00	140.0
CV-L-P361	186	8.0	PVC	7	0.05	0.00	140.0
CV-L-P363	351	8.0	PVC	7	0.05	0.00	140.0
CV-L-P424	393	8.0	PVC	7	0.05	0.00	140.0
CV-L-P371	526	8.0	PVC	7	0.05	0.00	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P372	463	8.0	PVC	7	0.05	0.00	145.0
CV-H-P49	587	8.0	PVC	7	0.05	0.00	150.0
CV-L-P487	1,782	4.0	PVC	12	0.30	0.23	140.0
CV-L-P192	680	8.0	PVC	7	0.04	0.00	140.0
CV-L-P264	135	8.0	PVC	8	0.05	0.00	140.0
CV-L-P191	331	8.0	PVC	6	0.04	0.00	140.0
CV-L-P194	323	8.0	PVC	6	0.04	0.00	140.0
CV-L-P354	317	8.0	PVC	6	0.04	0.00	140.0
CV-H-P53	413	8.0	PVC	6	0.04	0.00	150.0
CV-L-P306	276	12.0	PVC	-58	0.16	0.00	145.0
CV-L-P267	134	8.0	PVC	-4	0.03	0.00	140.0
CV-L-P626	434	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P628	434	8.0	PVC	6	0.04	0.00	140.0
CV-L-P388	462	8.0	PVC	6	0.04	0.00	140.0
CV-L-P389	254	8.0	PVC	6	0.04	0.00	140.0
CV-L-P308	792	8.0	PVC	-36	0.23	0.03	145.0
CV-L-P183	823	6.0	PVC	3	0.04	0.00	140.0
CV-L-P286	493	8.0	PVC	30	0.19	0.01	140.0
CV-L-P213	222	8.0	PVC	6	0.04	0.00	140.0
CV-L-P406	429	8.0	PVC	6	0.04	0.00	140.0
CV-L-P63	655	8.0	PVC	6	0.04	0.00	140.0
CV-L-P351	692	8.0	PVC	6	0.04	0.00	140.0
CV-L-P353	179	8.0	PVC	6	0.04	0.00	140.0
CV-L-P446	199	8.0	PVC	6	0.04	0.00	140.0
CV-L-P448	385	8.0	PVC	6	0.04	0.00	140.0
CV-H-P63	412	8.0	PVC	6	0.04	0.00	150.0
CV-H-P14	45	8.0	PVC	6	0.04	0.00	140.0
CV-H-P119	521	8.0	PVC	6	0.04	0.00	145.0
CV-L-P154	492	8.0	PVC	6	0.04	0.00	140.0
CV-L-P207	584	8.0	PVC	6	0.04	0.00	140.0
CV-L-P322	651	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P536	363	8.0	PVC	6	0.04	0.00	140.0
CV-L-P537	1,173	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P538	302	8.0	PVC	6	0.04	0.00	140.0
CV-L-P541	652	8.0	PVC	6	0.04	0.00	140.0
CV-L-P544	234	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P553	684	8.0	PVC	6	0.04	0.00	140.0
CV-L-P554	1,400	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P556	628	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P563	635	8.0	PVC	6	0.04	0.00	140.0
CV-L-P565	452	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P568	1,339	8.0	PVC	6	0.04	0.00	140.0
CV-L-P571	326	8.0	PVC	6	0.04	0.00	140.0
CV-L-P572	380	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P575	260	8.0	PVC	-6	0.04	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P576	450	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P579	664	8.0	PVC	6	0.04	0.00	140.0
CV-L-P581	497	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P584	178	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P590	770	8.0	PVC	6	0.04	0.00	145.0
CV-L-P593	498	8.0	PVC	6	0.04	0.00	140.0
CV-L-P597	145	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P600	187	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P601	228	8.0	PVC	6	0.04	0.00	145.0
CV-L-P604	1,199	8.0	PVC	6	0.04	0.00	140.0
CV-L-P605	332	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P606	110	8.0	PVC	6	0.04	0.00	145.0
CV-L-P611	199	8.0	PVC	6	0.04	0.00	145.0
CV-L-P614	365	8.0	PVC	6	0.04	0.00	140.0
CV-L-P615	233	8.0	PVC	6	0.04	0.00	140.0
CV-L-P616	384	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P617	124	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P618	168	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P624	125	8.0	PVC	6	0.04	0.00	140.0
CV-H-P129	453	8.0	PVC	-6	0.04	0.00	145.0
CV-H-P144	225	8.0	PVC	6	0.04	0.00	145.0
CV-H-P145	367	8.0	PVC	6	0.04	0.00	145.0
CV-H-P147	1,463	8.0	PVC	6	0.04	0.00	145.0
CV-H-P148	416	8.0	PVC	-6	0.04	0.00	145.0
CV-H-P152	187	8.0	PVC	-6	0.04	0.00	145.0
CV-H-P153	144	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P636	663	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P637	506	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P638	761	8.0	PVC	6	0.04	0.00	140.0
CV-L-P639	1,200	8.0	PVC	6	0.04	0.00	145.0
CV-L-P640	221	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P641	233	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P642	111	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P643	329	8.0	PVC	6	0.04	0.00	140.0
CV-L-P644	121	8.0	PVC	6	0.04	0.00	140.0
CV-L-P646	127	8.0	PVC	-6	0.04	0.00	140.0
CV-H-186	627	8.0	PVC	6	0.04	0.00	145.0
CV-H-187	197	8.0	PVC	-6	0.04	0.00	145.0
CV-H-188	147	8.0	PVC	-6	0.04	0.00	140.0
P-5	449	8.0	Ductile Iron	6	0.04	0.00	130.0
CV-H158	110	8.0	PVC	6	0.04	0.00	145.0
CV-L-P514	480	12.0	PVC	13	0.04	0.00	140.0
CV-L-P529	182	6.0	PVC	2	0.02	0.00	140.0
P-24	990	12.0	PVC	-22	0.06	0.00	140.0
CV-L-P697	840	12.0	PVC	13	0.04	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P164	1,003	8.0	PVC	5	0.03	0.00	140.0
CV-L-P385	527	8.0	PVC	-5	0.03	0.00	145.0
CV-L-P629	142	12.0	PVC	12	0.03	0.00	140.0
CV-L-P383	552	8.0	PVC	5	0.03	0.00	145.0
CV-L-P515	124	10.0	PVC	8	0.03	0.00	140.0
CV-L-P430	745	8.0	PVC	3	0.02	0.00	140.0
CV-H-P10	38	8.0	PVC	5	0.03	0.00	140.0
CV-H-P11	99	8.0	PVC	5	0.03	0.00	140.0
CV-H-P9	84	8.0	PVC	5	0.03	0.00	140.0
CV-L-P161	1,029	8.0	PVC	5	0.03	0.00	140.0
CV-L-P657	825	8.0	PVC	-3	0.02	0.00	140.0
CV-L-P483	1,765	4.0	PVC	1	0.03	0.00	140.0
CV-L-P274	258	8.0	PVC	5	0.03	0.00	140.0
P-25-MV	4,263	12.0	PVC	10	0.03	0.00	150.0
CV-L-P297	58	12.0	PVC	53	0.15	0.00	145.0
CV-L-P622	787	8.0	PVC	4	0.03	0.00	140.0
CV-L-P299	120	12.0	PVC	53	0.15	0.00	145.0
CV-L-P174	1,260	8.0	PVC	4	0.03	0.00	140.0
CV-L-P302	191	10.0	PVC	50	0.20	0.00	140.0
CV-H-P64	232	12.0	PVC	9	0.02	0.00	150.0
CV-L-P608	238	10.0	PVC	-6	0.02	0.00	140.0
CV-L-P421(2)	654	10.0	PVC	6	0.02	0.00	145.0
CV-H-P140	742	6.0	PVC	2	0.02	0.00	140.0
CV-L-P463	416	6.0	PVC	2	0.02	0.00	140.0
CV-L-P304	1,315	10.0	PVC	-49	0.20	0.03	140.0
CV-L-P305	333	10.0	PVC	-49	0.20	0.01	140.0
CV-L-P290	144	8.0	PVC	7	0.05	0.00	140.0
CV-L-P485	1,766	4.0	PVC	5	0.13	0.05	140.0
CV-L-P300	111	12.0	PVC	51	0.15	0.00	145.0
CV-L-P623	142	8.0	PVC	-3	0.02	0.00	140.0
CV-L-P162	1,040	8.0	PVC	3	0.02	0.00	140.0
CV-L-P169	999	8.0	PVC	3	0.02	0.00	140.0
CV-L-P340	402	8.0	PVC	-3	0.02	0.00	140.0
CV-L-P355	516	8.0	PVC	4	0.03	0.00	140.0
CV-L-P530	272	6.0	PVC	2	0.03	0.00	140.0
CV-L-P683	409	8.0	PVC	11	0.07	0.00	140.0
CV-L-P278	484	8.0	PVC	17	0.11	0.00	140.0
CV-L-P271	239	8.0	PVC	4	0.02	0.00	140.0
P-10	1,032	12.0	PVC	7	0.02	0.00	140.0
CV-L-P396	271	8.0	PVC	3	0.02	0.00	145.0
CV-L-P399	199	8.0	PVC	3	0.02	0.00	140.0
CV-L-P401	431	8.0	PVC	3	0.02	0.00	140.0
CV-L-P441	189	8.0	PVC	3	0.02	0.00	140.0
CV-H-P50	501	16.0	PVC	11	0.02	0.00	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-10	1,836	8.0	PVC	-3	0.02	0.00	140.0
P-9	1,056	8.0	PVC	-3	0.02	0.00	140.0
CV-L-P511	266	4.0	PVC	1	0.02	0.00	145.0
P-14	206	4.0	PVC	1	0.02	0.00	140.0
P-17	134	4.0	PVC	-1	0.02	0.00	140.0
CV-L-P166	1,273	8.0	PVC	3	0.02	0.00	140.0
CV-H-P12	56	8.0	PVC	3	0.02	0.00	140.0
CV-H-P28	400	6.0	PVC	2	0.02	0.00	150.0
CV-L-P79	597	8.0	PVC	3	0.02	0.00	140.0
CV-L-P187	547	8.0	PVC	3	0.02	0.00	140.0
CV-L-P239	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P241	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P243	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P245	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P246	222	8.0	PVC	3	0.02	0.00	140.0
CV-L-P248	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P249	222	8.0	PVC	3	0.02	0.00	140.0
CV-L-P251	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P252	222	8.0	PVC	3	0.02	0.00	140.0
CV-L-P449	170	12.0	PVC	6	0.02	0.00	140.0
CV-L-P551	266	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P566	225	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P596	127	12.0	PVC	6	0.02	0.00	140.0
CV-L-P610	368	12.0	PVC	6	0.02	0.00	140.0
CV-H-P131	182	12.0	PVC	-6	0.02	0.00	145.0
CV-L-P635	479	12.0	PVC	-6	0.02	0.00	145.0
CV-H159	1,646	12.0	PVC	-6	0.02	0.00	145.0
CV-L-P598	906	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P609	139	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P547	291	8.0	PVC	5	0.03	0.00	140.0
CV-H-P37	129	6.0	PVC	1	0.02	0.00	150.0
CV-L-P277	402	8.0	PVC	4	0.02	0.00	140.0
CV-L-P64	1,330	8.0	PVC	2	0.01	0.00	140.0
CV-L-P157	1,187	8.0	PVC	2	0.01	0.00	140.0
CV-L-P163	1,007	8.0	PVC	2	0.01	0.00	140.0
CV-L-P165	1,040	8.0	PVC	2	0.01	0.00	140.0
CV-L-P216	775	8.0	PVC	2	0.01	0.00	140.0
CV-L-P432	591	8.0	PVC	2	0.01	0.00	140.0
CV-H-P51	481	8.0	PVC	2	0.01	0.00	150.0
CV-H-P91	1,019	8.0	PVC	2	0.01	0.00	145.0
CV-L-P265	166	8.0	PVC	2	0.02	0.00	140.0
CV-L-P421(1)	147	10.0	PVC	3	0.01	0.00	145.0
CV-L-P266	287	8.0	PVC	-1	0.01	0.00	140.0
CV-L-P177	859	14.0	PVC	5	0.01	0.00	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P525	1,308	6.0	PVC	-1	0.01	0.00	140.0
CV-H-P146	687	16.0	PVC	-6	0.01	0.00	145.0
CV-L-P156	702	8.0	PVC	-1	0.01	0.00	140.0
CV-L-P289	237	8.0	PVC	9	0.06	0.00	140.0
CV-L-P456	204	8.0	PVC	1	0.01	0.00	140.0
CV-L-P237	349	8.0	PVC	1	0.01	0.00	140.0
CV-L-P370	511	8.0	PVC	1	0.01	0.00	100.0
CV-L-P412	476	8.0	PVC	1	0.01	0.00	140.0
CV-L-P455	586	8.0	PVC	1	0.01	0.00	140.0
CV-L-P517	717	8.0	PVC	1	0.01	0.00	140.0
CV-L-P275	135	8.0	PVC	2	0.01	0.00	140.0
CV-L-P112	273	8.0	PVC	61	0.39	0.02	140.0
CV-L-P56	1,678	12.0	PVC	3	0.01	0.00	140.0
CV-L-P155	759	8.0	PVC	-1	0.01	0.00	100.0
CV-L-P528	272	6.0	PVC	-1	0.01	0.00	140.0
CV-L-P269	174	8.0	PVC	-8	0.05	0.00	140.0
CV-L-P392	451	10.0	PVC	2	0.01	0.00	145.0
CV-L-P273	140	8.0	PVC	0	0.00	0.00	140.0
P-28-MV	87	3.0	PVC	0	0.01	0.00	150.0
CV-L-P301	136	10.0	PVC	1	0.01	0.00	140.0
CV-L-P160	1,478	8.0	PVC	0	0.00	0.00	140.0
CV-H-P30	775	6.0	PVC	0	0.01	0.00	150.0
CV-L-P303	191	12.0	PVC	2	0.01	0.00	145.0
CV-H-P141	741	6.0	PVC	1	0.01	0.00	140.0
CV-H-P135	982	6.0	PVC	0	0.00	0.00	140.0
CV-L-P193	492	8.0	PVC	1	0.00	0.00	140.0
CV-L-P408	200	8.0	PVC	1	0.00	0.00	140.0
CV-L-P182	845	8.0	PVC	1	0.00	0.00	140.0
CV-L-P369	341	8.0	PVC	1	0.00	0.00	140.0
CV-L-P380	255	8.0	PVC	1	0.00	0.00	145.0
CV-L-P419	623	8.0	PVC	1	0.00	0.00	140.0
CV-L-P420	1,011	8.0	PVC	1	0.00	0.00	140.0
CV-L-P453	141	8.0	PVC	1	0.00	0.00	140.0
CV-H-P47	549	8.0	PVC	1	0.00	0.00	150.0
CV-H-P52	205	8.0	PVC	1	0.00	0.00	150.0
CV-L-P411	143	8.0	PVC	1	0.00	0.00	140.0
CV-L-P272	265	8.0	PVC	1	0.01	0.00	140.0
CV-L-P384	583	8.0	PVC	0	0.00	0.00	145.0
CV-L-P407	434	8.0	PVC	0	0.00	0.00	145.0
CV-L-P167	1,011	8.0	PVC	0	0.00	0.00	140.0
CV-L-P188	812	8.0	PVC	0	0.00	0.00	145.0
CV-L-P375	312	8.0	PVC	0	0.00	0.00	145.0
CV-L-P526	550	6.0	PVC	0	0.00	0.00	140.0
CV-L-P298	226	12.0	PVC	1	0.00	0.00	145.0
CV-H-P29	514	6.0	PVC	0	0.00	0.00	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-15	32	12.0	PVC	1	0.00	0.00	140.0
CV-L-P357	525	12.0	PVC	1	0.00	0.00	140.0
CV-L-P376	141	8.0	PVC	0	0.00	0.00	145.0
CV-L-P387	375	8.0	PVC	0	0.00	0.00	140.0
CV-L-P270	139	8.0	PVC	-14	0.09	0.00	140.0
CV-H-P69	270	8.0	PVC	0	0.00	0.00	150.0
CV-H-P39	277	12.0	PVC	0	0.00	0.00	150.0
CV-H-P68	436	12.0	PVC	0	0.00	0.00	150.0
CV-H-P32	445	12.0	PVC	0	0.00	0.00	145.0
P-63	277	8.0	Ductile Iron	0	0.00	0.00	130.0
P-5(1)	310	8.0	PVC	0	0.00	0.00	140.0
CV-L-P437	192	8.0	PVC	0	0.00	0.00	140.0
P-61	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-57	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-62	317	8.0	Ductile Iron	0	0.00	0.00	130.0
P-60	784	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-H-P15	142	8.0	PVC	0	0.00	0.00	140.0
CV-L-P508	1,741	10.0	PVC	0	0.00	0.00	140.0
CV-L-P509	483	10.0	PVC	0	0.00	0.00	140.0
CV-H-P27	1,043	12.0	PVC	0	0.00	0.00	140.0
CV-L-P325	587	12.0	PVC	0	0.00	0.00	100.0
P-16	596	12.0	PVC	0	0.00	0.00	140.0
CV-L-P656	845	12.0	PVC	0	0.00	0.00	100.0
CV-L-P323	1,064	12.0	PVC	0	0.00	0.00	100.0
CV-L-P658	190	12.0	PVC	0	0.00	0.00	100.0
CV-L-P661	218	8.0	PVC	0	0.00	0.00	100.0
CV-L-P660	160	8.0	PVC	0	0.00	0.00	100.0
P-70	79	8.0	PVC	0	0.00	0.00	140.0
CV-L-P666	254	8.0	PVC	0	0.00	0.00	140.0
CV-L-P667	333	8.0	PVC	0	0.00	0.00	140.0
P-69	1,385	8.0	PVC	0	0.00	0.00	140.0
P-71	304	8.0	PVC	0	0.00	0.00	140.0
CV-L-P326	78	8.0	PVC	0	0.00	0.00	145.0
CV-L-P436	254	8.0	PVC	0	0.00	0.00	140.0
P-15	320	8.0	PVC	0	0.00	0.00	140.0
CV-H-P5	119	6.0	PVC	0	0.00	0.00	140.0
P-6(1)	330	12.0	PVC	0	0.00	0.00	140.0
CV-H-P17	210	8.0	PVC	0	0.00	0.00	140.0
CV-L-P390	798	8.0	PVC	0	0.00	0.00	140.0
P-67	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-8	427	8.0	PVC	0	0.00	0.00	140.0
P-7(1)	149	8.0	PVC	0	0.00	0.00	140.0
P-5(2)	467	8.0	PVC	0	0.00	0.00	140.0
P-14	808	8.0	PVC	0	0.00	0.00	140.0
P-64	278	8.0	Ductile Iron	0	0.00	0.00	130.0

GBWC-PD 2024 IRP - Calvada Valley System
Existing (2022) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-6(2)	483	12.0	PVC	0	0.00	0.00	140.0
CV-L-P391	1,035	8.0	PVC	0	0.00	0.00	140.0
P-68	321	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-H-P19	142	8.0	PVC	0	0.00	0.00	140.0
CV-L-P179	786	8.0	PVC	0	0.00	0.00	145.0
CV-H-P60	1,791	8.0	PVC	0	0.00	0.00	140.0
CV-L-P516	202	4.0	PVC	0	0.00	0.00	140.0
P-7(2)	354	8.0	PVC	0	0.00	0.00	140.0
CV-L-P138	863	8.0	PVC	0	0.00	0.00	140.0
P-66	317	8.0	Ductile Iron	0	0.00	0.00	130.0
P-2	1,006	8.0	PVC	0	0.00	0.00	140.0
CV-L-P159	1,265	8.0	PVC	0	0.00	0.00	140.0
CV-H-P113	1,029	8.0	PVC	0	0.00	0.00	140.0
P-12	1,189	6.0	PVC	0	0.00	0.00	140.0
P-65	784	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-L-P662	323	12.0	PVC	0	0.00	0.00	140.0
CV-L-P663	272	12.0	PVC	0	0.00	0.00	140.0
P-1	1,067	2.0	PVC	0	0.00	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J117	2,895.00	High	3	2,980.32	37
H-J116	2,891.00	High	3	2,980.32	39
H-J115	2,888.00	High	3	2,980.33	40
L-J5	2,736.00	Low	0	2,846.15	48
H-J118	2,870.00	High	3	2,980.32	48
L-J47	2,732.50	Low	2	2,845.31	49
H-J24	2,869.00	High	4	2,975.78	46
L-J48	2,733.50	Low	2	2,847.18	49
L-J334	2,732.50	Low	1	2,846.32	49
L-J201	2,733.00	Low	2	2,847.14	49
L-J46	2,728.00	Low	0	2,844.40	50
H-J119	2,866.00	High	3	2,980.32	49
L-J339	2,726.60	Low	2	2,844.57	51
L-J6	2,728.00	Low	0	2,846.07	51
H-J120	2,864.00	High	3	2,980.33	50
L-J340	2,726.00	Low	0	2,844.69	51
L-J335	2,727.00	Low	1	2,846.33	52
H-J25	2,862.00	High	5	2,975.78	49
H-J114	2,862.00	High	3	2,980.33	51
L-J474	2,730.00	Low	3	2,852.96	53
L-J341	2,723.80	Low	1	2,844.97	52
L-J196	2,727.50	Low	5	2,850.91	53
L-J195	2,728.00	Low	3	2,851.90	54
J-52	2,728.00	Low	0	2,851.90	54
L-J337	2,723.00	Low	1	2,845.34	53
L-J463	2,725.00	Low	2	2,848.20	53
L-J333	2,727.00	Low	0	2,852.97	55
L-J326	2,722.00	Low	2	2,846.35	54
L-J45	2,721.00	Low	1	2,844.92	54
L-J73	2,720.00	Low	1	2,845.35	54
L-J472	2,725.00	Low	3	2,852.96	55
L-J473	2,725.00	Low	3	2,852.97	55
L-J59	2,725.00	Low	14	2,852.97	55
L-J206	2,725.00	Low	0	2,853.23	55
L-J71	2,720.00	Low	0	2,846.37	55
L-J72	2,718.40	Low	1	2,845.36	55
J-41	2,730.00	High	0	2,864.66	58
J-42	2,730.00	High	0	2,864.66	58
J-43	2,730.00	High	0	2,864.66	58
L-J58	2,722.40	Low	4	2,851.90	56
L-J49	2,720.60	Low	3	2,849.94	56
H-J26	2,853.00	High	3	2,975.78	53
H-J99	2,853.00	High	2	2,980.41	55
H-J58	2,853.00	High	0	2,983.78	57
L-J44	2,718.50	Low	1	2,845.24	55

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J57	2,720.70	Low	3	2,850.92	56
H-J4	2,852.00	High	14	2,980.34	56
L-J331	2,719.00	Low	1	2,850.92	57
L-J565	2,720.00	Low	3	2,852.96	58
L-J51	2,717.30	Low	1	2,848.67	57
L-J56	2,715.90	Low	2	2,845.84	56
H-J3	2,850.20	High	0	2,980.34	56
L-J466	2,719.00	Low	3	2,852.96	58
L-J50	2,716.50	Low	3	2,849.14	57
L-J336	2,716.00	Low	1	2,848.67	57
L-J467	2,718.00	Low	3	2,852.96	58
L-J470	2,718.00	Low	3	2,852.96	58
L-J52	2,714.70	Low	2	2,848.21	58
H-J23	2,847.00	High	6	2,975.78	56
L-J55	2,712.80	Low	3	2,846.41	58
L-J468	2,716.00	Low	3	2,852.96	59
H-J48	2,722.00	High	0	2,865.26	62
L-J338	2,712.00	Low	1	2,848.21	59
L-J53	2,711.70	Low	2	2,847.77	59
L-J469	2,714.00	Low	3	2,852.97	60
L-J43	2,712.80	Low	3	2,845.23	57
L-J332	2,712.00	Low	1	2,849.98	60
L-J64	2,712.00	Low	2	2,850.92	60
H-J30	2,844.00	High	3	2,975.78	57
L-J54	2,709.10	Low	0	2,847.06	60
L-J465	2,712.00	Low	3	2,852.97	61
L-J464	2,712.00	Low	0	2,852.98	61
H-J29	2,842.00	High	1	2,975.78	58
L-J471	2,707.00	Low	3	2,848.67	61
H-J27	2,839.60	High	2	2,975.79	59
L-J74	2,715.70	Low	4	2,845.28	56
H-J33	2,839.00	High	1	2,975.79	59
L-J476	2,705.00	Low	3	2,848.21	62
L-J342	2,704.00	Low	0	2,848.11	62
L-J324	2,704.25	Low	1	2,850.03	63
H-J98	2,836.50	High	0	2,980.41	62
L-J580	2,705.00	Low	3	2,852.69	64
L-J475	2,703.00	Low	3	2,849.19	63
H-J57	2,836.00	High	2	2,980.58	63
L-J280	2,702.00	Low	12	2,847.05	63
L-J327	2,704.00	Low	0	2,852.69	64
L-J329	2,704.00	Low	0	2,852.69	64
L-J62	2,702.50	Low	4	2,851.83	65
H-J32	2,834.00	High	1	2,975.79	61
L-J477	2,700.00	Low	3	2,848.21	64

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J69	2,699.40	Low	1	2,847.06	64
L-J42	2,702.60	Low	2	2,845.12	62
L-J68	2,700.00	Low	0	2,849.19	65
L-J63	2,700.60	Low	2	2,850.92	65
H-J62	2,832.50	High	2	2,980.57	64
H-J34	2,831.60	High	2	2,975.80	62
L-J325	2,698.80	Low	1	2,850.07	65
L-J330	2,699.00	Low	0	2,850.92	66
L-J60	2,700.00	Low	2	2,852.69	66
J-1	2,697.00	Low	0	2,848.72	66
L-J65	2,697.00	Low	5	2,849.45	66
H-J97	2,829.70	High	2	2,974.83	63
L-J344	2,706.00	Low	1	2,845.28	60
L-J343	2,695.50	Low	0	2,847.06	66
L-J514	2,699.00	Low	3	2,845.08	63
L-J547	2,698.00	Low	3	2,852.69	67
H-J28	2,829.00	High	0	2,975.78	64
L-J66	2,696.00	Low	0	2,849.37	66
H-J88	2,828.00	High	3	2,980.41	66
L-J61	2,696.50	Low	2	2,852.69	68
J-47	2,700.00	Low	0	2,845.39	63
L-J67	2,694.00	Low	2	2,849.19	67
L-J41	2,696.30	Low	2	2,845.08	64
L-J75	2,716.00	Low	1	2,845.37	56
H-J31	2,825.00	High	1	2,975.78	65
H-J60	2,824.00	High	2	2,980.57	68
L-J363	2,700.00	Low	0	2,843.92	62
L-J479	2,691.00	Low	3	2,850.92	69
L-J561	2,689.00	Low	3	2,849.19	69
L-J7	2,690.00	Low	0	2,845.71	67
L-J8	2,690.00	Low	24	2,845.65	67
L-J40	2,692.00	Low	3	2,845.04	66
L-J516	2,718.00	Low	3	2,845.41	55
L-J352	2,720.00	Low	1	2,845.52	54
J-3	2,696.00	High	0	2,864.89	73
H-J96	2,820.00	High	2	2,968.62	64
H-J22	2,820.00	High	4	2,975.78	67
L-J515	2,714.00	Low	3	2,845.41	57
L-J39	2,688.00	Low	2	2,845.02	68
L-J205	2,691.00	Low	0	2,845.61	67
L-J351	2,720.00	Low	0	2,845.50	54
L-J577	2,718.00	Low	3	2,845.46	55
L-J564	2,693.00	Low	3	2,843.92	65
L-J563	2,692.00	Low	3	2,843.92	66
L-J362	2,692.00	Low	0	2,843.92	66

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J202	2,688.00	Low	0	2,845.65	68
L-J350	2,720.00	Low	2	2,845.50	54
L-J185	2,683.00	Low	0	2,845.71	70
L-J517	2,706.00	Low	3	2,845.58	60
J-2	2,706.00	Low	0	2,845.58	60
L-J17	2,684.80	Low	2	2,845.00	69
L-J345	2,684.00	Low	1	2,845.04	70
L-J559	2,685.00	Low	3	2,843.78	69
L-J510	2,683.00	Low	3	2,845.04	70
L-J347	2,683.50	Low	0	2,845.05	70
L-J349	2,683.50	Low	0	2,845.05	70
H-J95	2,812.00	High	4	2,961.15	65
H-J46	2,687.00	High	0	2,864.66	77
J-2	2,687.00	High	0	2,864.89	77
H-J109	2,687.00	High	3	2,864.97	77
L-J348	2,682.00	Low	0	2,845.05	71
L-J278	2,690.00	Low	9	2,843.92	67
L-J346	2,680.00	Low	1	2,845.02	71
L-J353	2,712.00	Low	0	2,845.50	58
L-J354	2,704.00	Low	0	2,845.54	61
H-J105	2,690.00	High	14	2,874.05	80
L-J562	2,678.00	Low	3	2,845.02	72
H-J4-A	2,799.00	High	0	2,920.68	53
L-J203	2,693.00	Low	0	2,845.59	66
H-J63	2,805.00	High	1	2,974.83	73
H-J111	2,682.00	High	3	2,866.84	80
H-J45	2,680.00	High	0	2,865.26	80
L-J361	2,680.00	Low	0	2,843.92	71
L-J360	2,680.00	Low	0	2,843.92	71
H-J64	2,803.00	High	2	2,968.62	72
L-J357	2,674.50	Low	0	2,843.78	73
H-J113	2,680.00	High	3	2,867.98	81
L-J359	2,678.00	Low	0	2,843.92	72
L-J356	2,673.50	Low	3	2,843.78	74
H-J51	2,679.00	High	2	2,867.98	82
L-J183	2,673.20	Low	3	2,843.81	74
L-J15	2,671.70	Low	0	2,843.76	74
L-J14	2,671.80	Low	0	2,843.78	74
L-J184	2,671.30	Low	1	2,843.78	75
H-J83	2,677.00	High	4	2,867.98	83
L-J358	2,675.00	Low	1	2,843.92	73
J-46	2,700.00	Low	0	2,845.55	63
L-J13	2,670.50	Low	24	2,843.81	75
L-J9	2,670.50	Low	2	2,843.93	75
L-J573	2,669.00	Low	3	2,844.19	76

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J79	2,678.00	High	11	2,871.43	84
H-J556-A	2,790.00	High	3	2,920.68	57
H-J61	2,796.50	High	2	2,980.57	80
L-J16	2,667.90	Low	0	2,843.71	76
L-J12	2,672.00	Low	3	2,843.92	74
L-J560	2,667.00	Low	3	2,843.76	76
L-J569	2,666.00	Low	3	2,843.60	77
H-J104	2,674.00	High	0	2,870.76	85
H-J44	2,794.00	High	2	2,980.57	81
H-J43	2,794.00	High	0	2,980.57	81
L-J11	2,670.00	Low	5	2,843.92	75
H-J82	2,671.00	High	4	2,868.35	85
H-J42	2,792.00	High	0	2,980.57	82
L-J10	2,668.20	Low	9	2,843.92	76
H-J49	2,668.00	High	2	2,866.84	86
H-J126	2,790.00	High	3	2,968.62	77
L-J513	2,661.00	Low	3	2,843.53	79
H-J81	2,668.00	High	18	2,868.84	87
J-23	2,665.00	High	0	2,864.72	86
L-J579	2,660.00	Low	3	2,843.49	79
L-J512	2,660.00	Low	3	2,843.53	79
H-J50	2,666.00	High	0	2,866.84	87
H-J56	2,774.00	High	0	2,910.36	59
L-J575	2,659.00	Low	3	2,843.56	80
J-48	2,700.00	Low	0	2,845.53	63
H-J84	2,664.00	High	0	2,866.00	87
L-J408	2,658.50	Low	1	2,843.60	80
H-155	2,787.00	High	3	2,980.57	84
L-J86	2,658.30	Low	2	2,843.57	80
L-J87	2,657.50	Low	1	2,843.56	81
L-J511	2,657.00	Low	3	2,843.53	81
H-J52	2,663.00	High	7	2,867.60	89
H-J65	2,785.00	High	1	2,961.15	76
H-J53	2,662.00	High	5	2,866.76	89
H-J112	2,662.00	High	3	2,866.97	89
L-J212	2,655.00	Low	1	2,843.47	82
L-J85	2,655.00	Low	4	2,843.50	82
L-J18	2,655.00	Low	13	2,843.56	82
H-J89	2,660.00	High	0	2,865.71	89
H-J110	2,659.00	High	3	2,864.34	89
H-J41	2,783.00	High	1	2,932.05	64
H-J130	2,783.00	High	3	2,980.57	85
H-J101	2,768.00	High	0	2,910.36	62
J-24	2,658.00	High	0	2,864.87	90
L-J525	2,654.00	Low	3	2,843.41	82

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J83	2,652.20	Low	2	2,843.43	83
L-J84	2,652.00	Low	2	2,843.43	83
L-J78	2,651.80	Low	2	2,843.40	83
H-J85	2,657.00	High	5	2,865.73	90
L-J526	2,653.00	Low	3	2,843.41	82
L-J77	2,651.00	Low	7	2,843.43	83
L-J204	2,703.00	Low	1	2,845.51	62
L-J412	2,652.00	Low	0	2,843.41	83
L-J76	2,650.20	Low	4	2,843.47	84
L-J19	2,649.80	Low	1	2,843.49	84
H-J131	2,778.00	High	3	2,961.15	79
L-J190	2,648.80	Low	2	2,843.43	84
L-J524	2,650.00	Low	3	2,843.41	84
L-J413	2,649.50	Low	0	2,843.41	84
L-J383	2,648.00	Low	1	2,843.38	85
L-J407	2,648.00	Low	0	2,843.52	85
L-J88	2,648.00	Low	8	2,843.51	85
H-J47	2,652.00	High	2	2,864.22	92
L-J189	2,647.80	Low	2	2,843.47	85
L-J90	2,647.80	Low	1	2,843.50	85
L-J166	2,649.00	Low	0	2,842.94	84
L-J411	2,648.50	Low	4	2,843.41	84
L-J38	2,648.50	Low	18	2,843.41	84
L-J382	2,647.00	Low	0	2,843.38	85
L-J89	2,647.00	Low	0	2,843.50	85
L-J20	2,646.50	Low	4	2,843.43	85
L-J211	2,646.00	Low	1	2,843.36	85
H-J90	2,650.00	High	22	2,864.04	93
L-J384	2,645.00	Low	2	2,843.36	86
H-J55	2,759.00	High	0	2,910.36	65
H-J86	2,650.00	High	12	2,865.82	93
L-J527	2,651.00	Low	3	2,841.94	83
L-J79	2,644.20	Low	4	2,843.36	86
L-J208	2,643.00	Low	4	2,843.21	87
L-J21	2,643.00	Low	2	2,843.21	87
L-J188	2,643.00	Low	0	2,843.50	87
H-J124	2,771.00	High	3	2,932.05	70
L-J388	2,642.00	Low	0	2,843.13	87
L-J389	2,642.00	Low	0	2,843.13	87
L-J80	2,642.10	Low	2	2,843.34	87
L-J179	2,642.00	Low	2	2,843.34	87
L-J137	2,648.00	Low	11	2,841.95	84
L-J367	2,683.00	Low	2	2,841.20	68
H-J40	2,770.00	High	2	2,932.05	70
H-134	2,758.00	High	3	2,914.28	68

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J542	2,655.00	Low	3	2,841.53	81
L-J157	2,684.00	Low	4	2,841.18	68
L-J366	2,682.00	Low	5	2,841.20	69
L-J81	2,640.20	Low	4	2,843.33	88
J-25	2,644.00	High	0	2,863.72	95
L-J213	2,683.00	Low	5	2,841.17	68
L-J368	2,656.00	Low	4	2,841.53	80
L-J541	2,661.00	Low	3	2,841.44	78
H-J108	2,767.00	High	3	2,929.27	70
H-J54	2,753.00	High	0	2,910.36	68
L-J165	2,640.00	Low	0	2,842.94	88
L-J414	2,640.00	Low	0	2,842.92	88
H-J94	2,767.00	High	6	2,932.05	71
L-J22	2,638.10	Low	1	2,843.14	89
L-J37	2,639.00	Low	24	2,842.98	88
L-J555	2,686.00	Low	3	2,841.18	67
H-J59	2,766.00	High	2	2,980.40	93
L-J176	2,638.50	Low	2	2,842.98	88
L-J154	2,653.50	Low	2	2,841.53	81
L-J372	2,650.00	Low	2	2,841.53	83
L-J145	2,636.20	Low	4	2,843.13	90
L-J369	2,658.00	Low	2	2,841.44	79
J-17	2,753.00	High	0	2,914.28	70
L-J82	2,635.80	Low	3	2,843.23	90
L-J406	2,635.70	Low	2	2,843.08	90
L-J23	2,635.70	Low	2	2,843.08	90
L-J210	2,635.00	Low	2	2,843.23	90
L-J174	2,636.40	Low	0	2,842.91	89
L-J155	2,656.50	Low	0	2,841.44	80
L-J543	2,649.00	Low	3	2,841.53	83
L-J36	2,636.00	Low	5	2,842.91	90
L-J167	2,636.00	Low	0	2,842.91	90
H-J73	2,756.00	High	3	2,920.68	71
L-J370	2,656.00	Low	2	2,841.44	80
H-135	2,751.00	High	3	2,914.28	71
L-J158	2,684.00	Low	0	2,841.18	68
J-26	2,628.00	Low	0	2,850.52	96
H-J72	2,755.00	High	0	2,920.90	72
L-J486	2,633.00	Low	3	2,843.02	91
L-J173	2,634.30	Low	2	2,842.83	90
L-J156	2,666.00	Low	15	2,841.28	76
L-J481	2,633.00	Low	3	2,842.78	91
L-J91	2,631.80	Low	1	2,843.13	91
H-136	2,749.00	High	3	2,914.28	72
L-J455	2,637.30	Low	0	2,841.74	88

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J404	2,632.00	Low	0	2,842.95	91
L-J405	2,632.00	Low	2	2,842.95	91
L-J35	2,633.00	Low	3	2,842.83	91
L-J487	2,631.00	Low	3	2,843.12	92
L-J488	2,631.00	Low	3	2,843.12	92
J-3	2,631.00	Low	0	2,843.13	92
H-154	2,760.00	High	3	2,980.40	95
H-J125	2,759.00	High	3	2,929.27	74
L-J365	2,684.00	Low	3	2,841.18	68
L-J175	2,632.50	Low	1	2,842.87	91
L-J529	2,636.00	Low	3	2,842.00	89
L-J172	2,632.20	Low	1	2,842.75	91
L-J139	2,635.80	Low	4	2,842.00	89
L-J489	2,630.00	Low	3	2,843.12	92
L-J385	2,630.00	Low	2	2,843.14	92
L-J143	2,632.00	Low	14	2,842.62	91
L-J485	2,630.00	Low	3	2,843.02	92
L-J142	2,631.70	Low	1	2,842.62	91
L-J141	2,631.50	Low	1	2,842.64	91
L-J544	2,642.00	Low	3	2,841.53	86
L-J374	2,642.00	Low	5	2,841.53	86
L-J144	2,631.50	Low	0	2,842.62	91
L-J496	2,628.00	Low	3	2,843.12	93
L-J34	2,631.20	Low	3	2,842.75	92
L-J491	2,629.00	Low	3	2,843.11	93
L-J490	2,629.00	Low	3	2,843.11	93
L-J492	2,629.00	Low	3	2,843.11	93
L-J493	2,629.00	Low	3	2,843.10	93
L-J386	2,629.00	Low	0	2,843.13	93
L-J171	2,630.80	Low	3	2,842.71	92
L-J371	2,642.00	Low	9	2,841.53	86
L-J33	2,630.20	Low	1	2,842.72	92
H-J13	2,742.00	High	2	2,909.51	72
L-J387	2,628.00	Low	1	2,843.12	93
H-J38	2,756.00	High	1	2,929.27	75
L-J207	2,682.00	Low	0	2,841.18	69
L-J373	2,640.00	Low	0	2,841.53	87
L-J136	2,633.00	Low	4	2,842.00	90
H-J12	2,741.00	High	1	2,909.51	73
H-J20	2,741.00	High	0	2,909.51	73
L-J403	2,628.00	Low	0	2,842.86	93
L-J24	2,628.00	Low	1	2,842.86	93
L-J390	2,627.00	Low	0	2,843.11	93
L-J187	2,628.00	Low	4	2,842.78	93
L-J480	2,628.00	Low	3	2,842.78	93

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-8	2,755.00	High	0	2,929.27	75
H-J107	2,755.00	High	3	2,929.27	75
L-J376	2,638.00	Low	4	2,841.54	88
L-J528	2,632.00	Low	3	2,842.00	91
H-J93	2,755.00	High	3	2,931.01	76
L-J391	2,626.00	Low	2	2,843.11	94
L-J170	2,628.00	Low	1	2,842.68	93
L-J169	2,628.00	Low	2	2,842.65	93
L-J32	2,627.80	Low	2	2,842.68	93
H-J18	2,739.00	High	0	2,909.51	74
L-J375	2,636.00	Low	11	2,841.54	89
L-J223	2,668.00	Low	5	2,841.14	75
H-J37	2,750.00	High	0	2,925.82	76
H-156	2,738.00	High	3	2,909.51	74
L-J484	2,625.00	Low	3	2,842.85	94
J-13	2,667.82	Low	0	2,841.14	75
L-J31	2,626.00	Low	6	2,842.65	94
L-J168	2,626.00	Low	3	2,842.61	94
H-J80	2,733.00	High	0	2,903.41	74
L-J111	2,618.50	Low	3	2,843.27	97
L-J478	2,667.00	Low	3	2,841.14	75
L-J27	2,624.50	Low	1	2,842.74	94
H-J15	2,737.00	High	0	2,909.51	75
H-J11	2,736.90	High	0	2,909.51	75
L-J25	2,624.00	Low	1	2,842.82	95
L-J402	2,624.00	Low	0	2,842.82	95
L-J409	2,620.00	Low	0	2,843.14	97
L-J26	2,624.00	Low	1	2,842.78	95
L-J401	2,624.00	Low	0	2,842.78	95
L-J94	2,620.00	Low	4	2,843.14	97
H-J10	2,736.60	High	0	2,909.51	75
L-J138	2,628.50	Low	7	2,842.00	92
L-J28	2,624.00	Low	0	2,842.70	95
L-J191	2,624.80	Low	3	2,842.57	94
L-J410	2,621.00	Low	0	2,843.12	96
L-J92	2,621.00	Low	1	2,843.12	96
J-23	2,740.10	High	0	2,915.07	76
L-J426	2,628.00	Low	3	2,842.00	93
L-J30	2,624.20	Low	6	2,842.61	94
L-J483	2,623.00	Low	3	2,842.85	95
J-22	2,740.00	High	0	2,915.17	76
J-21	2,740.00	High	0	2,915.24	76
L-J395	2,619.00	Low	0	2,843.14	97
L-J519	2,627.00	Low	3	2,842.05	93
L-J571	2,617.00	Low	3	2,843.27	98

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J522	2,624.00	Low	3	2,842.48	95
L-J392	2,620.00	Low	1	2,843.12	97
L-J214	2,665.00	Low	7	2,841.14	76
J-15	2,664.97	Low	0	2,841.14	76
H-J16	2,735.00	High	0	2,909.51	76
L-J507	2,622.00	Low	3	2,842.85	96
L-J578	2,623.00	Low	3	2,842.54	95
L-J93	2,618.00	Low	2	2,843.13	97
H-J9	2,734.20	High	0	2,909.51	76
L-J454	2,626.00	Low	0	2,841.74	93
H-J121	2,748.00	High	3	2,928.45	78
H-J8	2,733.90	High	2	2,909.51	76
L-J159	2,676.00	Low	0	2,841.18	71
J-20	2,738.00	High	0	2,915.25	77
L-J398	2,615.00	Low	1	2,843.27	99
L-J186	2,621.00	Low	2	2,842.74	96
L-J160	2,676.00	Low	1	2,841.18	71
L-J29	2,621.50	Low	89	2,842.56	96
L-J495	2,618.00	Low	3	2,843.12	97
L-J221	2,663.00	Low	0	2,841.14	77
L-J506	2,620.00	Low	3	2,842.85	96
L-J482	2,620.00	Low	3	2,842.85	96
H-J87	2,738.00	High	1	2,916.60	77
L-J521	2,621.00	Low	3	2,842.48	96
L-J520	2,623.00	Low	3	2,842.05	95
H-133	2,735.00	High	3	2,915.35	78
L-J509	2,612.00	Low	3	2,843.27	100
L-J133	2,619.20	Low	1	2,842.47	97
J-14	2,660.00	Low	0	2,841.14	78
L-J134	2,618.90	Low	0	2,842.43	97
L-J508	2,611.00	Low	3	2,843.27	100
L-J557	2,617.00	Low	3	2,842.74	98
H-J7	2,729.00	High	10	2,909.51	78
L-J177	2,610.00	Low	2	2,843.37	101
L-J135	2,619.00	Low	8	2,842.15	97
L-J400	2,610.00	Low	2	2,843.28	101
L-J109	2,610.00	Low	4	2,843.27	101
L-J397	2,610.00	Low	0	2,843.27	101
L-J364	2,672.00	Low	1	2,841.18	73
L-J194	2,619.00	Low	0	2,841.99	96
H-J123	2,742.00	High	3	2,928.45	81
H-J74	2,736.00	High	3	2,920.44	80
H-J39	2,742.00	High	1	2,929.27	81
H-J71	2,736.00	High	1	2,921.18	80
H-J122	2,741.00	High	3	2,928.45	81

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J494	2,610.00	Low	3	2,843.14	101
L-J417	2,608.00	Low	0	2,843.35	102
L-J415	2,608.00	Low	2	2,843.34	102
L-J416	2,608.00	Low	0	2,843.34	102
L-J321	2,609.90	Low	3	2,843.14	101
L-J396	2,608.00	Low	3	2,843.27	102
L-J323	2,609.40	Low	0	2,843.15	101
L-J105	2,607.80	Low	5	2,843.28	102
L-J110	2,607.80	Low	2	2,843.28	102
L-J209	2,615.00	Low	0	2,842.50	98
L-J162	2,607.00	Low	0	2,843.36	102
L-J322	2,608.70	Low	1	2,843.14	101
L-J377	2,606.80	Low	0	2,843.36	102
L-J108	2,607.00	Low	0	2,843.27	102
L-J161	2,669.00	Low	1	2,841.18	74
H-J70	2,735.00	High	1	2,922.39	81
L-J146	2,616.00	Low	0	2,841.99	98
L-J393	2,608.00	Low	1	2,843.15	102
L-J96	2,608.00	Low	1	2,843.15	102
L-J112	2,607.50	Low	1	2,843.15	102
L-J220	2,616.25	Low	18	2,841.74	98
L-J425	2,605.50	Low	1	2,843.37	103
L-J122	2,605.50	Low	1	2,843.37	103
J-36	2,605.00	Low	0	2,847.93	105
L-J215	2,654.00	Low	8	2,841.14	81
L-J199	2,620.00	Low	0	2,841.58	96
H-J69	2,733.90	High	0	2,923.38	82
L-J106	2,612.00	Low	5	2,842.55	100
L-J121	2,604.70	Low	2	2,843.37	103
L-J303	2,604.50	Low	0	2,848.30	105
L-J95	2,606.00	Low	3	2,843.15	103
J-39	2,604.00	Low	0	2,847.93	106
J-40	2,604.00	Low	0	2,847.93	106
L-J219	2,614.80	Low	0	2,841.74	98
L-J120	2,604.00	Low	0	2,843.37	104
L-J119	2,604.00	Low	2	2,843.38	104
H-J68	2,733.40	High	0	2,924.83	83
J-35	2,603.00	Low	0	2,847.93	106
J-37	2,603.00	Low	0	2,847.93	106
L-J163	2,603.00	Low	0	2,843.36	104
L-J104	2,603.00	Low	4	2,843.28	104
L-J502	2,603.00	Low	3	2,843.27	104
L-J123	2,602.50	Low	3	2,843.36	104
L-J558	2,604.00	Low	3	2,843.15	103
L-J147	2,612.00	Low	5	2,841.88	99

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J148	2,612.00	Low	88	2,841.83	99
J-38	2,602.00	Low	0	2,847.93	106
J-27	2,602.00	Low	0	2,849.25	107
L-J113	2,603.50	Low	3	2,843.15	104
J-28	2,602.00	Low	0	2,849.83	107
L-J193	2,602.00	Low	2	2,843.38	104
L-J399	2,602.00	Low	1	2,843.28	104
L-J498	2,603.00	Low	3	2,843.15	104
H-J76	2,722.00	High	80	2,911.56	82
L-J118	2,601.50	Low	1	2,843.38	105
H-J5	2,720.00	High	0	2,909.00	82
J-16	2,722.57	High	0	2,912.61	82
L-J218	2,612.00	Low	0	2,841.74	99
L-J222	2,650.00	Low	0	2,841.14	83
H-J67	2,732.00	High	1	2,925.82	84
L-J198	2,613.50	Low	1	2,841.67	99
H-J75	2,728.00	High	26	2,920.42	83
J-19	2,724.25	High	0	2,915.33	83
L-J124	2,601.00	Low	0	2,843.36	105
L-J378	2,601.00	Low	0	2,843.36	105
L-J97	2,602.30	Low	3	2,843.15	104
L-J153	2,615.50	Low	9	2,841.58	98
L-J546	2,612.00	Low	3	2,841.70	99
L-J116	2,600.50	Low	4	2,843.38	105
J-33	2,600.00	Low	0	2,847.93	107
L-J318	2,601.30	Low	2	2,843.17	105
H-J92	2,734.00	High	9	2,930.10	85
L-J132	2,600.00	Low	0	2,843.41	105
L-J423	2,600.00	Low	0	2,843.36	105
L-J178	2,609.50	Low	1	2,841.85	101
L-J379	2,599.80	Low	0	2,843.36	105
L-J380	2,599.80	Low	0	2,843.36	105
L-J103	2,600.00	Low	6	2,843.27	105
L-J107	2,600.00	Low	3	2,843.27	105
L-J545	2,612.00	Low	3	2,841.67	99
L-J197	2,611.00	Low	0	2,841.70	100
L-J117	2,599.50	Low	0	2,843.40	106
L-J298	2,599.00	Low	68	2,847.93	108
J-34	2,599.00	Low	0	2,847.93	108
J-31	2,599.00	Low	0	2,847.97	108
J-32	2,599.00	Low	0	2,847.97	108
L-J152	2,611.50	Low	3	2,841.67	100
H-J106	2,732.50	High	3	2,929.27	85
L-J418	2,599.00	Low	1	2,843.41	106
L-J501	2,600.00	Low	3	2,843.17	105

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J304	2,598.60	Low	0	2,848.30	108
L-J305	2,598.40	Low	0	2,848.30	108
L-J125	2,598.50	Low	1	2,843.35	106
L-J428	2,598.50	Low	2	2,843.61	106
L-J427	2,598.50	Low	1	2,843.59	106
L-J319	2,599.60	Low	4	2,843.17	105
L-J151	2,610.00	Low	1	2,841.70	100
H-J66	2,731.00	High	0	2,928.45	85
J-29	2,598.00	Low	0	2,848.00	108
J-30	2,598.00	Low	0	2,848.00	108
L-J98	2,599.30	Low	4	2,843.16	106
H-J77	2,717.00	High	21	2,909.51	83
L-J381	2,598.00	Low	1	2,843.35	106
L-J192	2,598.00	Low	5	2,843.38	106
L-J126	2,597.50	Low	2	2,843.35	106
H-J100	2,717.00	High	20	2,910.36	84
H-J6	2,715.90	High	0	2,909.00	84
L-J102	2,597.50	Low	9	2,843.27	106
L-J228	2,597.00	Low	1	2,847.68	108
L-J434	2,597.00	Low	4	2,844.46	107
L-J433	2,597.00	Low	4	2,844.27	107
L-J432	2,597.00	Low	3	2,844.16	107
L-J431	2,597.00	Low	3	2,844.04	107
L-J430	2,597.00	Low	3	2,843.92	107
L-J429	2,597.00	Low	3	2,843.84	107
L-J452	2,597.00	Low	3	2,843.73	107
L-J127	2,597.00	Low	37	2,843.63	107
L-J227	2,596.81	Low	2	2,847.55	108
L-J128	2,597.00	Low	0	2,843.54	107
L-J419	2,597.00	Low	1	2,843.42	107
L-J499	2,598.00	Low	3	2,843.17	106
L-J130	2,596.90	Low	0	2,843.43	107
L-J566	2,597.00	Low	3	2,843.27	107
L-J150	2,607.50	Low	1	2,841.74	101
L-J224	2,596.50	Low	9	2,846.02	108
L-J225	2,596.45	Low	2	2,846.98	108
L-J131	2,596.50	Low	2	2,843.42	107
L-J129	2,596.30	Low	0	2,843.45	107
L-J295	2,596.00	Low	0	2,848.02	109
L-J294	2,596.00	Low	0	2,848.06	109
J-7	2,645.00	Low	0	2,841.14	85
L-J293	2,596.00	Low	0	2,848.21	109
L-J182	2,596.00	Low	6	2,845.01	108
L-J435	2,596.00	Low	3	2,844.71	108
L-J277	2,595.87	Low	0	2,848.30	109

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J180	2,596.00	Low	4	2,843.42	107
J-5	2,644.75	Low	0	2,841.14	85
L-J420	2,596.00	Low	1	2,843.39	107
L-J500	2,597.00	Low	3	2,843.17	107
L-J115	2,596.70	Low	0	2,843.20	107
L-J164	2,595.80	Low	1	2,843.35	107
L-J200	2,596.00	Low	0	2,843.27	107
L-J149	2,606.00	Low	0	2,841.77	102
L-J234	2,595.11	Low	2	2,847.25	109
L-J241	2,595.11	Low	2	2,847.51	109
L-J240	2,595.11	Low	2	2,847.51	109
L-J101	2,595.50	Low	7	2,843.27	107
L-J226	2,594.93	Low	2	2,847.22	109
L-J449	2,595.00	Low	1	2,843.62	108
L-J320	2,596.00	Low	3	2,843.17	107
L-J450	2,594.00	Low	18	2,844.36	108
L-J453	2,594.00	Low	0	2,844.36	108
L-J236	2,593.81	Low	2	2,847.28	110
L-J243	2,593.81	Low	2	2,847.47	110
L-J244	2,593.81	Low	2	2,847.47	110
L-J114	2,595.00	Low	2	2,843.18	107
L-J533	2,594.00	Low	3	2,843.36	108
L-J233	2,593.66	Low	2	2,847.25	110
L-J239	2,593.66	Low	2	2,847.51	110
L-J540	2,642.00	Low	3	2,841.14	86
J-10	2,642.00	Low	0	2,841.14	86
L-J394	2,594.00	Low	4	2,843.17	108
J-4	2,594.00	Low	0	2,843.17	108
L-J532	2,593.00	Low	3	2,843.37	108
L-J534	2,593.00	Low	3	2,843.36	108
L-J503	2,593.00	Low	3	2,843.27	108
L-J504	2,593.00	Low	3	2,843.27	108
L-J238	2,592.41	Low	2	2,847.31	110
L-J246	2,592.41	Low	2	2,847.44	110
L-J247	2,592.41	Low	2	2,847.44	110
L-J235	2,592.36	Low	2	2,847.28	110
L-J242	2,592.36	Low	2	2,847.47	110
L-J550	2,712.00	Low	3	2,910.35	86
L-J549	2,712.00	Low	3	2,910.35	86
L-J216	2,641.00	Low	11	2,841.14	87
L-J99	2,593.20	Low	2	2,843.17	108
L-J100	2,592.30	Low	4	2,843.27	109
L-J181	2,592.00	Low	1	2,843.39	109
L-J443	2,591.60	Low	3	2,843.84	109
H-J91	2,706.00	High	30	2,903.41	85

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J442	2,591.10	Low	3	2,843.92	109
J-6	2,640.00	Low	0	2,841.14	87
J-8	2,640.00	Low	0	2,841.14	87
J-9	2,640.00	Low	0	2,841.14	87
J-11	2,640.00	Low	0	2,841.14	87
J-12	2,640.00	Low	0	2,841.14	87
L-J237	2,590.96	Low	2	2,847.31	111
L-J245	2,590.96	Low	2	2,847.44	111
L-J232	2,590.88	Low	1	2,847.41	111
L-J444	2,591.00	Low	2	2,843.76	109
L-J422	2,591.00	Low	4	2,843.36	109
L-J445	2,590.80	Low	1	2,843.70	109
L-J446	2,590.80	Low	3	2,843.67	109
L-J447	2,590.80	Low	1	2,843.66	109
L-J448	2,590.80	Low	2	2,843.65	109
L-J505	2,591.00	Low	3	2,843.27	109
L-J231	2,590.18	Low	2	2,847.41	111
L-J229	2,590.00	Low	2	2,847.35	111
L-J438	2,590.00	Low	0	2,844.19	110
L-J439	2,590.00	Low	3	2,844.13	110
L-J440	2,590.00	Low	0	2,844.07	110
L-J441	2,590.00	Low	4	2,844.01	110
L-J230	2,589.88	Low	2	2,847.35	111
H-J36	2,728.00	High	0	2,931.37	88
L-J421	2,590.00	Low	0	2,843.39	110
L-J424	2,590.00	Low	1	2,843.37	110
L-J436	2,589.20	Low	0	2,844.24	110
L-J437	2,589.20	Low	4	2,844.22	110
L-J255	2,588.70	Low	4	2,847.36	112
J-5	2,590.00	Low	0	2,843.17	110
L-J254	2,588.49	Low	3	2,847.36	112
L-J256	2,588.40	Low	4	2,847.36	112
L-J274	2,588.17	Low	1	2,847.36	112
L-J248	2,588.00	Low	2	2,847.36	112
L-J265	2,587.95	Low	1	2,847.36	112
L-J269	2,587.75	Low	6	2,847.36	112
L-J530	2,588.00	Low	3	2,843.37	110
L-J253	2,587.64	Low	4	2,847.36	112
L-J267	2,587.62	Low	2	2,847.36	112
L-J264	2,587.62	Low	4	2,847.36	112
L-J268	2,587.61	Low	3	2,847.36	112
L-J266	2,587.40	Low	2	2,847.36	112
L-J270	2,587.40	Low	4	2,847.37	112
L-J263	2,587.39	Low	3	2,847.36	112
L-J259	2,587.14	Low	2	2,847.36	113

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J262	2,587.12	Low	2	2,847.36	113
L-J567	2,587.00	Low	3	2,847.59	113
L-J260	2,586.85	Low	2	2,847.36	113
L-J258	2,586.85	Low	3	2,847.36	113
L-J251	2,586.71	Low	0	2,847.45	113
L-J273	2,586.60	Low	0	2,847.47	113
L-J257	2,586.58	Low	3	2,847.36	113
L-J249	2,586.56	Low	4	2,847.38	113
L-J261	2,586.54	Low	2	2,847.36	113
L-J272	2,586.54	Low	4	2,847.37	113
J-25	2,586.35	High	0	2,847.50	113
L-J568	2,586.00	Low	3	2,847.51	113
L-J250	2,585.96	Low	3	2,847.41	113
L-J217	2,635.00	Low	9	2,841.14	89
L-J252	2,585.73	Low	4	2,847.38	113
L-J271	2,585.70	Low	5	2,847.39	113
H-J2	2,721.00	High	0	2,930.59	91
L-J291	2,584.50	Low	0	2,847.51	114
L-J292	2,584.00	Low	30	2,847.51	114
L-J290	2,583.00	Low	0	2,847.50	114
L-J287	2,582.50	Low	0	2,847.49	115
L-J289	2,582.41	Low	0	2,847.49	115
H-J78	2,697.00	High	16	2,903.41	89
L-J281	2,582.00	Low	1	2,847.50	115
L-J282	2,582.00	Low	0	2,847.50	115
L-J283	2,581.90	Low	0	2,847.50	115
L-J284	2,581.70	Low	1	2,847.50	115
L-J288	2,581.70	Low	1	2,847.50	115
L-J285	2,581.40	Low	0	2,847.49	115
L-J548	2,701.00	Low	18	2,910.35	91
L-J551	2,701.00	Low	3	2,910.35	91
L-J552	2,701.00	Low	3	2,910.35	91
L-J553	2,701.00	Low	3	2,910.35	91
L-J286	2,581.20	Low	1	2,847.49	115
J-28	2,579.20	MVE	2	2,717.92	60
J-29	2,579.20	MVE	2	2,717.92	60
J-30	2,579.20	MVE	2	2,717.93	60
J-27	2,579.20	MVE	2	2,717.93	60
J-26	2,579.20	Low	0	2,844.24	115
L-J461	2,618.00	Low	0	2,841.13	97
L-J536	2,618.00	Low	3	2,841.13	97
L-J554	2,617.00	Low	3	2,841.13	97
J-6	2,617.00	Low	0	2,841.13	97
L-J539	2,616.00	Low	3	2,841.13	97
L-J460	2,616.00	Low	0	2,841.13	97

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-45	2,684.00	High	0	2,907.07	97
L-J462	2,615.00	Low	1	2,841.13	98
L-J459	2,613.70	Low	1	2,841.13	98
L-J275	2,611.60	Low	0	2,841.13	99
J-7	2,611.00	Low	0	2,841.13	100
L-J457	2,610.00	Low	0	2,841.13	100
J-1	2,610.00	Low	0	2,841.13	100
L-J456	2,609.10	Low	0	2,841.13	100
L-J276	2,608.90	Low	0	2,841.13	100
J-18	2,722.00	High	0	2,911.56	82

GBWC-PD 2024 IRP - Calvada Valley System

Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-29	MVE	0	2	1,002	551	False	-132	-115	J-28
J-28	MVE	0	2	1,002	551	False	-131	-115	J-29
L-J457	Low	1,000	0	1,000	752	False	-35	16	L-J456
L-J474	Low	1,000	3	1,003	777	False	1	35	L-J472
H-J117	High	1,000	3	1,003	863	False	13	16	H-J116
L-J195	Low	1,000	3	1,003	942	False	16	39	L-J48
H-J116	High	1,000	3	1,003	885	False	16	15	H-J117
H-J115	High	1,000	3	1,003	904	False	18	16	H-J117
H-J118	High	1,000	3	1,003	883	False	24	14	H-J117
H-J119	High	1,000	3	1,003	898	False	27	15	H-J117
J-52	Low	0	0	1,000	1,192	True	28	75	J-3
H-J120	High	1,000	3	1,003	923	False	30	17	H-J117
L-J456	Low	1,000	0	1,000	967	False	16	15	L-J457
H-J114	High	1,000	3	1,003	962	False	33	18	H-J117
L-J472	Low	1,000	3	1,003	1,395	True	35	33	L-J474
L-J196	Low	1,000	5	1,005	1,495	True	36	39	L-J48
H-J24	High	1,000	4	1,004	1,465	True	36	38	H-J117
L-J565	Low	1,000	3	1,003	1,451	True	36	38	L-J474
L-J48	Low	1,000	2	1,002	1,812	True	37	38	L-J201
L-J201	Low	1,000	2	1,002	1,881	True	38	38	L-J48
L-J47	Low	1,000	2	1,002	1,982	True	38	39	L-J334
L-J334	Low	1,000	1	1,001	1,949	True	38	38	L-J47
L-J467	Low	1,000	3	1,003	1,575	True	39	38	L-J474
L-J335	Low	1,000	1	1,001	1,855	True	39	38	L-J334
L-J46	Low	1,000	0	1,000	2,094	True	40	39	L-J47
L-J466	Low	1,000	3	1,003	1,603	True	39	38	L-J474
L-J470	Low	1,000	3	1,003	1,594	True	40	38	L-J474
J-43	High	0	0	1,000	1,516	True	40	39	H-J117
L-J340	Low	1,000	0	1,000	2,015	True	40	39	L-J47
L-J475	Low	1,000	3	1,003	1,460	True	40	39	L-J48
L-J326	Low	1,000	2	1,002	1,789	True	40	39	L-J334
L-J473	Low	1,000	3	1,003	1,792	True	40	39	L-J474
L-J339	Low	1,000	2	1,002	2,110	True	41	39	L-J47
L-J463	Low	1,000	2	1,002	1,878	True	41	38	L-J48
L-J337	Low	1,000	1	1,001	1,911	True	41	38	L-J47
L-J468	Low	1,000	3	1,003	1,624	True	41	38	L-J474
L-J341	Low	1,000	1	1,001	1,950	True	41	39	L-J47
H-J4	High	1,000	14	1,014	1,159	True	41	25	H-J117
L-J71	Low	1,000	0	1,000	1,810	True	41	39	L-J47

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J333	Low	1,000	0	1,000	1,991	True	41	39	L-J48
H-J23	High	1,000	6	1,006	1,486	True	41	38	H-J117
L-J469	Low	1,000	3	1,003	1,655	True	42	38	L-J474
J-42	High	0	0	1,000	1,629	True	42	39	H-J117
L-J73	Low	1,000	1	1,001	2,033	True	43	39	L-J47
H-J25	High	1,000	5	1,005	1,680	True	42	38	H-J117
J-41	High	0	0	1,000	1,663	True	43	39	H-J117
L-J59	Low	1,000	14	1,014	2,027	True	43	39	L-J48
L-J206	Low	1,000	0	1,000	2,013	True	43	39	L-J48
L-J331	Low	1,000	1	1,001	1,982	True	44	39	L-J48
L-J58	Low	1,000	4	1,004	2,053	True	44	39	L-J48
L-J45	Low	1,000	1	1,001	2,154	True	44	40	L-J47
L-J329	Low	1,000	0	1,000	1,645	True	44	39	L-J48
L-J343	Low	1,000	0	1,000	1,548	True	44	39	L-J48
H-J3	High	1,000	0	1,000	1,144	True	44	25	H-J117
L-J72	Low	1,000	1	1,001	2,086	True	44	39	L-J47
L-J476	Low	1,000	3	1,003	1,701	True	44	39	L-J48
L-J57	Low	1,000	3	1,003	2,071	True	45	39	L-J48
L-J49	Low	1,000	3	1,003	2,068	True	45	39	L-J48
L-J465	Low	1,000	3	1,003	1,788	True	45	39	L-J474
L-J69	Low	1,000	1	1,001	1,629	True	45	39	L-J48
H-J48	High	1,000	0	1,000	1,655	True	45	39	H-J117
L-J327	Low	1,000	0	1,000	1,722	True	45	39	L-J48
L-J336	Low	1,000	1	1,001	2,078	True	45	39	L-J48
L-J547	Low	1,000	3	1,003	1,641	True	45	39	L-J48
L-J68	Low	1,000	0	1,000	1,656	True	46	39	L-J48
L-J64	Low	1,000	2	1,002	1,968	True	46	39	L-J48
L-J471	Low	1,000	3	1,003	1,850	True	46	39	L-J48
L-J338	Low	1,000	1	1,001	2,019	True	46	39	L-J48
L-J51	Low	1,000	1	1,001	2,078	True	46	39	L-J48
L-J332	Low	1,000	1	1,001	2,025	True	46	39	L-J48
L-J50	Low	1,000	3	1,003	2,069	True	46	39	L-J48
H-J30	High	1,000	3	1,003	1,687	True	46	38	H-J117
L-J44	Low	1,000	1	1,001	2,215	True	47	40	L-J47
L-J56	Low	1,000	2	1,002	2,142	True	47	40	L-J47
L-J52	Low	1,000	2	1,002	2,087	True	47	39	L-J48
L-J464	Low	1,000	0	1,000	1,994	True	48	39	L-J48
L-J55	Low	1,000	3	1,003	2,122	True	48	39	L-J47
L-J344	Low	1,000	1	1,001	1,773	True	48	42	L-J47

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J53	Low	1,000	2	1,002	2,097	True	49	39	L-J48
L-J342	Low	1,000	0	1,000	2,039	True	49	39	L-J48
H-J26	High	1,000	3	1,003	1,900	True	48	38	H-J117
L-J324	Low	1,000	1	1,001	2,071	True	49	39	L-J48
L-J5	Low	1,000	0	1,000	3,500	True	49	51	L-J47
L-J54	Low	1,000	0	1,000	2,107	True	50	39	L-J48
L-J477	Low	1,000	3	1,003	2,033	True	50	39	L-J48
J-1	Low	0	0	1,000	1,970	True	50	39	L-J48
L-J580	Low	1,000	3	1,003	2,018	True	50	39	L-J48
L-J330	Low	1,000	0	1,000	2,067	True	51	39	L-J48
L-J74	Low	1,000	4	1,004	2,388	True	50	42	L-J47
H-J29	High	1,000	1	1,001	1,928	True	51	38	H-J117
L-J62	Low	1,000	4	1,004	2,056	True	51	39	L-J48
L-J43	Low	1,000	3	1,003	2,426	True	51	41	L-J47
L-J479	Low	1,000	3	1,003	1,922	True	52	39	L-J48
L-J61	Low	1,000	2	1,002	2,016	True	52	39	L-J48
L-J280	Low	1,000	12	1,012	2,119	True	52	39	L-J48
L-J60	Low	1,000	2	1,002	2,017	True	52	39	L-J48
H-J99	High	1,000	2	1,002	2,480	True	52	37	H-J117
L-J363	Low	1,000	0	1,000	1,750	True	50	49	L-J5
L-J63	Low	1,000	2	1,002	2,074	True	52	39	L-J48
H-J33	High	1,000	1	1,001	2,002	True	52	38	H-J117
L-J67	Low	1,000	2	1,002	2,026	True	53	39	L-J48
L-J325	Low	1,000	1	1,001	2,073	True	53	39	L-J48
L-J66	Low	1,000	0	1,000	2,077	True	53	39	L-J48
L-J65	Low	1,000	5	1,005	2,081	True	53	39	L-J48
L-J6	Low	1,000	0	1,000	3,500	True	52	49	L-J5
L-J561	Low	1,000	3	1,003	2,028	True	53	39	L-J48
L-J75	Low	1,000	1	1,001	2,478	True	52	44	L-J47
L-J516	Low	1,000	3	1,003	2,720	True	53	45	L-J47
L-J515	Low	1,000	3	1,003	2,534	True	53	45	L-J47
H-134	High	1,000	3	1,003	1,498	True	57	39	H-J117
L-J461	Low	1,000	0	1,000	1,212	True	40	49	L-J5
H-J88	High	1,000	3	1,003	2,036	True	56	37	H-J117
H-J58	High	1,000	0	1,000	3,220	True	57	39	H-J117
H-J22	High	1,000	4	1,004	1,748	True	57	38	H-J117
L-J514	Low	1,000	3	1,003	2,630	True	57	44	L-J47
H-J32	High	1,000	1	1,001	2,136	True	58	38	H-J117
L-J577	Low	1,000	3	1,003	3,216	True	55	47	L-J47

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J42	Low	1,000	2	1,002	2,832	True	57	43	L-J47
H-J27	High	1,000	2	1,002	2,430	True	58	38	H-J117
H-J31	High	1,000	1	1,001	1,812	True	58	38	H-J117
H-J4-A	High	1,000	0	1,000	2,271	True	59	39	H-J117
H-J28	High	1,000	0	1,000	1,948	True	59	38	H-J117
L-J563	Low	1,000	3	1,003	2,075	True	57	49	L-J5
H-J62	High	1,000	2	1,002	2,534	True	59	38	H-J117
L-J352	Low	1,000	1	1,001	3,251	True	57	49	L-J47
L-J559	Low	1,000	3	1,003	2,027	True	58	49	L-J5
L-J351	Low	1,000	0	1,000	3,500	True	58	48	L-J47
L-J564	Low	1,000	3	1,003	2,326	True	60	49	L-J5
L-J350	Low	1,000	2	1,002	3,502	True	58	48	L-J47
J-5	Low	0	0	1,000	1,242	True	43	49	L-J5
H-J125	High	1,000	3	1,003	1,543	True	62	39	H-J117
H-J56	High	1,000	0	1,000	2,985	True	64	39	H-J117
L-J41	Low	1,000	2	1,002	3,110	True	61	44	L-J47
L-J517	Low	1,000	3	1,003	2,687	True	59	49	L-J5
H-J556-A	High	1,000	3	1,003	2,274	True	63	39	H-J117
L-J362	Low	1,000	0	1,000	2,349	True	61	49	L-J5
L-J353	Low	1,000	0	1,000	3,092	True	60	48	L-J47
L-J510	Low	1,000	3	1,003	2,420	True	62	45	L-J47
L-J189	Low	1,000	2	1,002	1,636	True	61	49	L-J47
H-J98	High	1,000	0	1,000	2,751	True	63	37	H-J117
H-J57	High	1,000	2	1,002	2,771	True	63	38	H-J117
H-J34	High	1,000	2	1,002	2,845	True	64	38	H-J117
H-J97	High	1,000	2	1,002	2,865	True	64	38	H-J117
H-J101	High	1,000	0	1,000	3,182	True	66	39	H-J117
J-30	MVE	0	2	1,002	1,276	True	47	64	J-29
L-J40	Low	1,000	3	1,003	3,483	True	64	45	L-J47
H-J80	High	1,000	0	1,000	1,885	True	67	39	H-J117
L-J345	Low	1,000	1	1,001	2,945	True	64	45	L-J47
J-47	Low	0	0	1,000	3,500	True	64	48	L-J47
J-2	Low	0	0	1,000	3,500	True	63	49	L-J5
H-J60	High	1,000	2	1,002	2,772	True	66	38	H-J117
L-J361	Low	1,000	0	1,000	2,292	True	65	49	L-J5
L-J359	Low	1,000	0	1,000	2,341	True	65	49	L-J5
L-J354	Low	1,000	0	1,000	3,500	True	64	49	L-J5
H-J96	High	1,000	2	1,002	2,985	True	67	38	H-J117
H-J44	High	1,000	2	1,002	2,037	True	67	38	H-J117

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J360	Low	1,000	0	1,000	2,426	True	66	49	L-J5
L-J190	Low	1,000	2	1,002	1,833	True	66	49	L-J47
L-J39	Low	1,000	2	1,002	3,502	True	67	46	L-J47
L-J349	Low	1,000	0	1,000	3,399	True	67	47	L-J47
L-J346	Low	1,000	1	1,001	3,255	True	67	46	L-J47
H-J95	High	1,000	4	1,004	3,242	True	68	38	H-J117
J-46	Low	0	0	1,000	3,169	True	65	49	L-J5
H-J63	High	1,000	1	1,001	2,485	True	68	38	H-J117
L-J562	Low	1,000	3	1,003	3,076	True	67	46	L-J47
H-J55	High	1,000	0	1,000	3,117	True	70	39	H-J117
H-154	High	1,000	3	1,003	1,669	True	68	37	H-J117
L-J210	Low	1,000	2	1,002	1,714	True	67	49	L-J47
L-J185	Low	1,000	0	1,000	3,429	True	67	49	L-J5
H-J13	High	1,000	2	1,002	2,080	True	70	39	H-J117
H-155	High	1,000	3	1,003	2,011	True	69	38	H-J117
J-48	Low	0	0	1,000	3,290	True	66	49	L-J5
H-J64	High	1,000	2	1,002	2,597	True	69	38	H-J117
H-J12	High	1,000	1	1,001	2,125	True	71	39	H-J117
L-J348	Low	1,000	0	1,000	3,500	True	68	47	L-J47
J-6	Low	0	0	1,000	1,484	True	54	49	L-J5
H-J59	High	1,000	2	1,002	1,768	True	70	37	H-J117
H-135	High	1,000	3	1,003	2,189	True	71	39	H-J117
L-J358	Low	1,000	1	1,001	2,516	True	69	49	L-J5
H-J43	High	1,000	0	1,000	2,262	True	70	38	H-J117
H-J20	High	1,000	0	1,000	2,240	True	72	39	H-J117
L-J17	Low	1,000	2	1,002	3,502	True	69	47	L-J47
H-J46	High	1,000	0	1,000	3,163	True	71	39	H-J117
L-J7	Low	1,000	0	1,000	3,500	True	69	49	L-J5
L-J8	Low	1,000	24	1,024	3,524	True	69	49	L-J5
H-156	High	1,000	3	1,003	2,205	True	73	39	H-J117
L-J347	Low	1,000	0	1,000	3,500	True	70	47	L-J47
H-J54	High	1,000	0	1,000	3,216	True	73	39	H-J117
L-J203	Low	1,000	0	1,000	3,500	True	69	49	L-J5
L-J278	Low	1,000	9	1,009	3,509	True	70	49	L-J5
L-J205	Low	1,000	0	1,000	3,500	True	70	49	L-J5
H-136	High	1,000	3	1,003	2,189	True	73	39	H-J117
H-J111	High	1,000	3	1,003	3,203	True	72	39	H-J117
H-J41	High	1,000	1	1,001	2,496	True	72	39	H-J117
H-J61	High	1,000	2	1,002	2,495	True	72	38	H-J117

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Action (2027) MDD+Fire Condition Distribution System Junction Report

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
H-J108	High	1,000	3	1,003	2,009	True	72	39	H-J117
H-J11	High	1,000	0	1,000	2,213	True	74	39	H-J117
H-J18	High	1,000	0	1,000	2,398	True	74	39	H-J117
H-J10	High	1,000	0	1,000	2,228	True	74	39	H-J117
H-J126	High	1,000	3	1,003	2,398	True	72	38	H-J117
H-J42	High	1,000	0	1,000	2,399	True	72	38	H-J117
H-J109	High	1,000	3	1,003	3,503	True	73	39	H-J117
H-J15	High	1,000	0	1,000	2,343	True	74	39	H-J117
L-J357	Low	1,000	0	1,000	3,119	True	71	49	L-J5
H-J65	High	1,000	1	1,001	2,303	True	72	38	H-J117
L-J202	Low	1,000	0	1,000	3,500	True	71	49	L-J5
L-J513	Low	1,000	3	1,003	2,484	True	71	49	L-J47
L-J204	Low	1,000	1	1,001	3,501	True	68	48	L-J47
L-J356	Low	1,000	3	1,003	3,275	True	71	49	L-J5
H-J130	High	1,000	3	1,003	2,252	True	74	38	H-J117
H-J9	High	1,000	0	1,000	2,343	True	76	39	H-J117
L-J12	Low	1,000	3	1,003	2,994	True	73	49	L-J5
L-J426	Low	1,000	3	1,003	1,753	True	70	49	L-J5
L-J368	Low	1,000	4	1,004	2,051	True	70	49	L-J5
H-J8	High	1,000	2	1,002	2,377	True	76	39	H-J117
L-J367	Low	1,000	2	1,002	2,852	True	67	49	L-J5
H-J131	High	1,000	3	1,003	2,281	True	75	38	H-J117
L-J184	Low	1,000	1	1,001	3,501	True	74	49	L-J5
H-J45	High	1,000	0	1,000	3,500	True	76	39	H-J117
H-J16	High	1,000	0	1,000	2,726	True	77	39	H-J117
L-J365	Low	1,000	3	1,003	2,622	True	67	49	L-J5
L-J569	Low	1,000	3	1,003	3,298	True	74	49	L-J47
L-J213	Low	1,000	5	1,005	2,988	True	67	49	L-J5
L-J377	Low	1,000	0	1,000	3,464	True	72	49	L-J5
H-J38	High	1,000	1	1,001	2,037	True	76	39	H-J117
L-J157	Low	1,000	4	1,004	3,160	True	68	49	L-J5
L-J555	Low	1,000	3	1,003	3,131	True	68	49	L-J5
J-55	Low	0	0	1,000	3,500	True	77	55	J-52
L-J279	Low	1,000	0	1,000	3,500	True	76	49	L-J5
L-J478	Low	1,000	3	1,003	2,394	True	64	49	L-J5
L-J366	Low	1,000	5	1,005	3,182	True	69	49	L-J5
L-J207	Low	1,000	0	1,000	2,709	True	69	49	L-J5
L-J389	Low	1,000	0	1,000	2,263	True	75	49	L-J47
L-J11	Low	1,000	5	1,005	3,505	True	76	49	L-J5

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Action (2027) MDD+Fire Condition Distribution System Junction Report

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L-J158	Low	1,000	0	1,000	3,108	True	69	49	L-J5
L-J573	Low	1,000	3	1,003	3,503	True	76	48	L-J47
L-J179	Low	1,000	2	1,002	2,311	True	76	49	L-J47
L-J166	Low	1,000	0	1,000	2,456	True	75	49	L-J5
L-J512	Low	1,000	3	1,003	3,293	True	76	49	L-J47
L-J223	Low	1,000	5	1,005	2,543	True	66	49	L-J5
L-J183	Low	1,000	3	1,003	3,503	True	76	49	L-J5
L-J15	Low	1,000	0	1,000	3,500	True	77	49	L-J5
H-J113	High	1,000	3	1,003	3,503	True	79	39	H-J117
L-J162	Low	1,000	0	1,000	3,500	True	74	49	L-J5
L-J14	Low	1,000	0	1,000	3,500	True	77	49	L-J5
H-J39	High	1,000	1	1,001	1,849	True	79	39	H-J117
H-J73	High	1,000	3	1,003	3,029	True	80	39	H-J117
H-J7	High	1,000	10	1,010	3,067	True	81	39	H-J117
J-8	High	0	0	1,000	2,204	True	79	39	H-J117
L-J560	Low	1,000	3	1,003	3,503	True	77	49	L-J5
L-J211	Low	1,000	1	1,001	2,588	True	77	49	L-J47
H-J51	High	1,000	2	1,002	3,502	True	80	39	H-J117
H-J105	High	1,000	14	1,014	3,514	True	79	39	H-J117
L-J84	Low	1,000	2	1,002	2,952	True	78	49	L-J47
H-J72	High	1,000	0	1,000	3,069	True	80	39	H-J117
L-J16	Low	1,000	0	1,000	3,500	True	78	49	L-J5
L-J13	Low	1,000	24	1,024	3,524	True	78	49	L-J5
H-J124	High	1,000	3	1,003	3,503	True	80	39	H-J117
L-J9	Low	1,000	2	1,002	3,502	True	78	49	L-J5
L-J388	Low	1,000	0	1,000	2,509	True	78	49	L-J47
H-J83	High	1,000	4	1,004	3,504	True	81	39	H-J117
H-J40	High	1,000	2	1,002	3,502	True	80	39	H-J117
L-J579	Low	1,000	3	1,003	3,503	True	79	49	L-J47
H-J107	High	1,000	3	1,003	2,303	True	80	39	H-J117
L-J10	Low	1,000	9	1,009	3,509	True	79	49	L-J5
J-59	Low	0	0	1,000	3,500	True	81	55	J-52
L-J425	Low	1,000	1	1,001	1,942	True	64	49	L-J5
L-J214	Low	1,000	7	1,007	2,790	True	69	49	L-J5
L-J541	Low	1,000	3	1,003	3,073	True	76	49	L-J5
L-J542	Low	1,000	3	1,003	2,813	True	77	49	L-J5
H-J50	High	1,000	0	1,000	3,500	True	82	39	H-J117
H-J94	High	1,000	6	1,006	3,506	True	82	39	H-J117
L-J221	Low	1,000	0	1,000	2,760	True	70	49	L-J5

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MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
H-J87	High	1,000	1	1,001	3,474	True	83	39	H-J117
H-J5	High	1,000	0	1,000	3,237	True	84	39	H-J117
H-J37	High	1,000	0	1,000	2,924	True	82	39	H-J117
L-J159	Low	1,000	0	1,000	3,202	True	74	49	L-J5
L-J212	Low	1,000	1	1,001	3,501	True	80	49	L-J47
H-J79	High	1,000	11	1,011	3,511	True	83	39	H-J117
L-J160	Low	1,000	1	1,001	3,197	True	74	49	L-J5
L-J372	Low	1,000	2	1,002	2,691	True	78	49	L-J5
L-J525	Low	1,000	3	1,003	3,503	True	81	49	L-J5
L-J511	Low	1,000	3	1,003	3,503	True	81	49	L-J47
L-J85	Low	1,000	4	1,004	3,504	True	81	49	L-J47
L-J87	Low	1,000	1	1,001	3,501	True	81	49	L-J47
L-J156	Low	1,000	15	1,015	3,452	True	76	49	L-J5
L-J188	Low	1,000	0	1,000	2,982	True	81	49	L-J47
L-J575	Low	1,000	3	1,003	3,503	True	81	49	L-J47
H-J82	High	1,000	4	1,004	3,504	True	84	39	H-J117
L-J408	Low	1,000	1	1,001	3,501	True	81	49	L-J47
J-23	High	0	0	1,000	3,500	True	84	39	H-J117
H-J49	High	1,000	2	1,002	3,502	True	84	39	H-J117
L-J86	Low	1,000	2	1,002	3,502	True	82	49	L-J47
L-J83	Low	1,000	2	1,002	3,502	True	82	49	L-J47
L-J364	Low	1,000	1	1,001	3,092	True	75	49	L-J5
L-J77	Low	1,000	7	1,007	3,507	True	82	49	L-J47
H-J104	High	1,000	0	1,000	3,500	True	84	39	H-J117
L-J455	Low	1,000	0	1,000	2,428	True	79	49	L-J5
H-133	High	1,000	3	1,003	3,476	True	85	39	H-J117
L-J383	Low	1,000	1	1,001	3,501	True	82	49	L-J47
H-J91	High	1,000	30	1,030	3,121	True	86	39	H-J117
L-J78	Low	1,000	2	1,002	3,502	True	82	49	L-J47
H-J121	High	1,000	3	1,003	2,754	True	84	39	H-J117
L-J369	Low	1,000	2	1,002	2,706	True	79	49	L-J5
H-J53	High	1,000	5	1,005	3,505	True	85	39	H-J117
H-J112	High	1,000	3	1,003	3,503	True	85	39	H-J117
H-J52	High	1,000	7	1,007	3,507	True	85	39	H-J117
L-J412	Low	1,000	0	1,000	3,500	True	82	49	L-J5
H-J84	High	1,000	0	1,000	3,500	True	85	39	H-J117
L-J382	Low	1,000	0	1,000	3,500	True	83	49	L-J47
L-J18	Low	1,000	13	1,013	3,513	True	83	48	L-J47
H-J81	High	1,000	18	1,018	3,518	True	85	39	H-J117

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Action (2027) MDD+Fire Condition Distribution System Junction Report

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J370	Low	1,000	2	1,002	2,706	True	80	49	L-J5
L-J76	Low	1,000	4	1,004	3,504	True	83	49	L-J47
L-J384	Low	1,000	2	1,002	3,502	True	83	49	L-J47
L-J484	Low	1,000	3	1,003	2,401	True	83	49	L-J5
L-J79	Low	1,000	4	1,004	3,504	True	83	49	L-J47
L-J481	Low	1,000	3	1,003	2,688	True	83	49	L-J5
L-J544	Low	1,000	3	1,003	2,679	True	80	49	L-J5
J-39	Low	0	0	1,000	1,879	True	66	49	L-J5
L-J215	Low	1,000	8	1,008	2,786	True	73	49	L-J5
H-J110	High	1,000	3	1,003	3,503	True	86	39	H-J117
L-J161	Low	1,000	1	1,001	3,209	True	77	49	L-J5
L-J496	Low	1,000	3	1,003	2,749	True	66	49	L-J5
L-J155	Low	1,000	0	1,000	3,500	True	81	49	L-J5
L-J173	Low	1,000	2	1,002	2,819	True	84	49	L-J5
L-J88	Low	1,000	8	1,008	3,508	True	84	49	L-J47
L-J526	Low	1,000	3	1,003	3,503	True	84	49	L-J5
H-J89	High	1,000	0	1,000	3,500	True	86	39	H-J117
L-J176	Low	1,000	2	1,002	3,107	True	84	49	L-J5
H-J122	High	1,000	3	1,003	2,664	True	86	39	H-J117
L-J144	Low	1,000	0	1,000	2,693	True	84	49	L-J5
L-J495	Low	1,000	3	1,003	2,330	True	66	49	L-J5
L-J80	Low	1,000	2	1,002	3,502	True	85	49	L-J47
J-24	High	0	0	1,000	3,500	True	87	39	H-J117
H-J76	High	1,000	80	1,080	3,517	True	88	39	H-J117
L-J407	Low	1,000	0	1,000	3,500	True	85	49	L-J47
L-J543	Low	1,000	3	1,003	3,382	True	82	49	L-J5
L-J506	Low	1,000	3	1,003	2,406	True	85	49	L-J5
L-J19	Low	1,000	1	1,001	3,501	True	85	49	L-J47
H-J93	High	1,000	3	1,003	3,483	True	87	39	H-J117
L-J376	Low	1,000	4	1,004	2,707	True	82	49	L-J5
L-J145	Low	1,000	4	1,004	3,146	True	85	49	L-J47
L-J374	Low	1,000	5	1,005	2,927	True	82	49	L-J5
L-J174	Low	1,000	0	1,000	3,100	True	85	49	L-J5
L-J89	Low	1,000	0	1,000	3,500	True	85	49	L-J47
L-J154	Low	1,000	2	1,002	3,502	True	82	49	L-J5
L-J222	Low	1,000	0	1,000	2,769	True	74	49	L-J5
H-J77	High	1,000	21	1,021	3,423	True	89	39	H-J117
L-J90	Low	1,000	1	1,001	3,501	True	85	49	L-J47
L-J550	Low	1,000	3	1,003	3,417	True	89	49	L-J47

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Action (2027) MDD+Fire Condition Distribution System Junction Report

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
H-J6	High	1,000	0	1,000	3,402	True	89	39	H-J117
L-J527	Low	1,000	3	1,003	3,503	True	83	49	L-J5
H-J85	High	1,000	5	1,005	3,505	True	88	39	H-J117
H-J74	High	1,000	3	1,003	3,148	True	88	39	H-J117
L-J549	Low	1,000	3	1,003	3,487	True	89	49	L-J47
L-J524	Low	1,000	3	1,003	3,503	True	86	49	L-J5
H-J100	High	1,000	20	1,020	3,421	True	89	39	H-J117
J-37	Low	0	0	1,000	1,997	True	69	49	L-J5
L-J81	Low	1,000	4	1,004	3,504	True	86	49	L-J47
L-J208	Low	1,000	4	1,004	3,504	True	86	49	L-J47
H-J71	High	1,000	1	1,001	3,139	True	89	39	H-J117
L-J413	Low	1,000	0	1,000	3,500	True	86	49	L-J5
L-J540	Low	1,000	3	1,003	2,641	True	72	49	L-J5
H-J123	High	1,000	3	1,003	3,178	True	88	39	H-J117
L-J20	Low	1,000	4	1,004	3,504	True	86	49	L-J47
L-J482	Low	1,000	3	1,003	2,553	True	86	49	L-J5
H-J86	High	1,000	12	1,012	3,512	True	89	39	H-J117
L-J507	Low	1,000	3	1,003	2,618	True	86	49	L-J5
H-J47	High	1,000	2	1,002	3,502	True	89	39	H-J117
L-J172	Low	1,000	1	1,001	3,086	True	86	49	L-J5
L-J137	Low	1,000	11	1,011	3,308	True	85	49	L-J5
L-J411	Low	1,000	4	1,004	3,504	True	87	49	L-J5
L-J38	Low	1,000	18	1,018	3,518	True	87	49	L-J5
J-40	Low	0	0	1,000	2,076	True	70	49	L-J5
L-J371	Low	1,000	9	1,009	3,266	True	84	49	L-J5
L-J373	Low	1,000	0	1,000	3,219	True	85	49	L-J5
H-J90	High	1,000	22	1,022	3,522	True	90	39	H-J117
L-J171	Low	1,000	3	1,003	3,131	True	87	49	L-J5
H-J70	High	1,000	1	1,001	3,177	True	90	39	H-J117
L-J21	Low	1,000	2	1,002	3,502	True	88	49	L-J47
L-J82	Low	1,000	3	1,003	3,503	True	88	49	L-J47
L-J454	Low	1,000	0	1,000	2,540	True	85	49	L-J5
L-J163	Low	1,000	0	1,000	3,500	True	76	49	L-J5
L-J548	Low	1,000	18	1,018	3,267	True	92	49	L-J47
L-J111	Low	1,000	3	1,003	3,503	True	76	49	L-J5
L-J165	Low	1,000	0	1,000	3,500	True	88	49	L-J5
L-J169	Low	1,000	2	1,002	3,095	True	88	49	L-J5
L-J414	Low	1,000	0	1,000	3,500	True	88	49	L-J5
L-J170	Low	1,000	1	1,001	3,142	True	88	49	L-J5

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Action (2027) MDD+Fire Condition Distribution System Junction Report

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H-J69	High	1,000	0	1,000	3,209	True	91	39	H-J117
L-J375	Low	1,000	11	1,011	3,231	True	86	49	L-J5
L-J177	Low	1,000	2	1,002	3,271	True	73	49	L-J5
L-J529	Low	1,000	3	1,003	3,288	True	87	49	L-J5
H-J78	High	1,000	16	1,016	3,417	True	93	39	H-J117
L-J216	Low	1,000	11	1,011	2,784	True	78	49	L-J5
L-J553	Low	1,000	3	1,003	3,331	True	92	49	L-J47
H-J75	High	1,000	26	1,026	3,204	True	92	39	H-J117
J-36	Low	0	0	1,000	2,244	True	72	49	L-J5
L-J508	Low	1,000	3	1,003	3,503	True	75	49	L-J5
L-J571	Low	1,000	3	1,003	3,503	True	75	49	L-J5
L-J168	Low	1,000	3	1,003	3,127	True	89	49	L-J5
J-33	Low	0	0	1,000	2,150	True	72	49	L-J5
L-J217	Low	1,000	9	1,009	2,683	True	76	49	L-J5
L-J483	Low	1,000	3	1,003	3,105	True	89	49	L-J5
J-25	High	0	0	1,000	3,500	True	92	39	H-J117
L-J552	Low	1,000	3	1,003	3,449	True	93	49	L-J47
L-J22	Low	1,000	1	1,001	3,501	True	90	49	L-J47
L-J551	Low	1,000	3	1,003	3,432	True	94	49	L-J47
H-J68	High	1,000	0	1,000	3,259	True	92	39	H-J117
J-38	Low	0	0	1,000	2,242	True	73	49	L-J5
L-J139	Low	1,000	4	1,004	3,288	True	88	49	L-J5
L-J143	Low	1,000	14	1,014	3,514	True	89	49	L-J5
L-J494	Low	1,000	3	1,003	2,960	True	73	49	L-J5
L-J528	Low	1,000	3	1,003	3,288	True	88	49	L-J5
L-J398	Low	1,000	1	1,001	3,501	True	76	49	L-J5
L-J395	Low	1,000	0	1,000	3,500	True	73	49	L-J5
L-J509	Low	1,000	3	1,003	3,503	True	76	49	L-J5
L-J502	Low	1,000	3	1,003	3,157	True	76	49	L-J5
L-J167	Low	1,000	0	1,000	3,500	True	90	49	L-J5
L-J164	Low	1,000	1	1,001	2,649	True	75	49	L-J5
L-J122	Low	1,000	1	1,001	3,489	True	75	49	L-J5
L-J406	Low	1,000	2	1,002	3,502	True	91	49	L-J47
L-J37	Low	1,000	24	1,024	3,524	True	91	49	L-J5
L-J23	Low	1,000	2	1,002	3,502	True	91	49	L-J47
L-J409	Low	1,000	0	1,000	3,500	True	73	49	L-J5
L-J462	Low	1,000	1	1,001	2,294	True	77	49	L-J5
L-J91	Low	1,000	1	1,001	3,501	True	91	49	L-J47
L-J394	Low	1,000	4	1,004	2,433	True	74	49	L-J5

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L-J396	Low	1,000	3	1,003	3,503	True	77	49	L-J5
L-J109	Low	1,000	4	1,004	3,504	True	77	49	L-J5
L-J558	Low	1,000	3	1,003	2,864	True	74	49	L-J5
L-J405	Low	1,000	2	1,002	3,502	True	91	49	L-J5
L-J488	Low	1,000	3	1,003	3,503	True	91	49	L-J47
H-J67	High	1,000	1	1,001	3,293	True	93	39	H-J117
L-J487	Low	1,000	3	1,003	3,503	True	91	49	L-J47
L-J480	Low	1,000	3	1,003	3,503	True	91	49	L-J5
L-J399	Low	1,000	1	1,001	3,469	True	77	49	L-J5
L-J175	Low	1,000	1	1,001	3,501	True	91	49	L-J5
L-J94	Low	1,000	4	1,004	3,504	True	74	49	L-J5
L-J545	Low	1,000	3	1,003	2,507	True	89	49	L-J5
J-3	Low	0	0	1,000	3,500	True	92	49	L-J47
L-J392	Low	1,000	1	1,001	3,501	True	73	49	L-J5
L-J199	Low	1,000	0	1,000	2,781	True	89	49	L-J5
L-J557	Low	1,000	3	1,003	3,055	True	92	49	L-J5
L-J397	Low	1,000	0	1,000	3,500	True	77	49	L-J5
L-J485	Low	1,000	3	1,003	3,503	True	92	49	L-J47
L-J532	Low	1,000	3	1,003	2,641	True	77	49	L-J5
L-J385	Low	1,000	2	1,002	3,502	True	92	49	L-J47
L-J386	Low	1,000	0	1,000	3,500	True	92	49	L-J47
J-35	Low	0	0	1,000	2,433	True	75	49	L-J5
J-26	Low	0	0	1,000	3,500	True	94	50	L-J5
L-J486	Low	1,000	3	1,003	3,503	True	92	49	L-J47
L-J36	Low	1,000	5	1,005	3,505	True	92	49	L-J5
L-J142	Low	1,000	1	1,001	3,501	True	92	49	L-J5
L-J108	Low	1,000	0	1,000	3,500	True	78	49	L-J5
L-J489	Low	1,000	3	1,003	3,503	True	92	49	L-J47
L-J193	Low	1,000	2	1,002	3,390	True	77	49	L-J5
J-31	Low	0	0	1,000	2,338	True	75	49	L-J5
L-J492	Low	1,000	3	1,003	3,503	True	93	49	L-J47
L-J404	Low	1,000	0	1,000	3,500	True	93	49	L-J5
L-J400	Low	1,000	2	1,002	3,502	True	78	49	L-J5
L-J520	Low	1,000	3	1,003	3,270	True	91	49	L-J5
L-J410	Low	1,000	0	1,000	3,500	True	74	49	L-J5
L-J121	Low	1,000	2	1,002	3,502	True	77	49	L-J5
L-J378	Low	1,000	0	1,000	3,500	True	77	49	L-J5
L-J490	Low	1,000	3	1,003	3,503	True	93	49	L-J47
L-J491	Low	1,000	3	1,003	3,503	True	93	49	L-J47

GBWC-PD 2024 IRP - Calvada Valley System

Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J110	Low	1,000	2	1,002	3,502	True	79	49	L-J5
L-J387	Low	1,000	1	1,001	3,501	True	93	49	L-J47
L-J505	Low	1,000	3	1,003	2,714	True	78	49	L-J5
L-J403	Low	1,000	0	1,000	3,500	True	93	49	L-J5
L-J141	Low	1,000	1	1,001	3,501	True	93	49	L-J5
L-J123	Low	1,000	3	1,003	3,503	True	78	49	L-J5
L-J192	Low	1,000	5	1,005	3,235	True	78	49	L-J5
L-J493	Low	1,000	3	1,003	3,503	True	93	49	L-J47
L-J136	Low	1,000	4	1,004	3,288	True	91	49	L-J5
L-J416	Low	1,000	0	1,000	3,500	True	78	49	L-J5
L-J417	Low	1,000	0	1,000	3,500	True	78	49	L-J5
L-J35	Low	1,000	3	1,003	3,503	True	93	49	L-J5
L-J194	Low	1,000	0	1,000	3,169	True	92	49	L-J5
L-J187	Low	1,000	4	1,004	3,504	True	93	49	L-J5
J-34	Low	0	0	1,000	2,451	True	77	49	L-J5
L-J93	Low	1,000	2	1,002	3,502	True	75	49	L-J5
L-J186	Low	1,000	2	1,002	3,502	True	93	49	L-J5
L-J381	Low	1,000	1	1,001	3,501	True	78	49	L-J5
H-J92	High	1,000	9	1,009	3,462	True	95	39	H-J117
L-J198	Low	1,000	1	1,001	2,765	True	91	49	L-J5
H-J106	High	1,000	3	1,003	3,424	True	96	39	H-J117
H-J66	High	1,000	0	1,000	3,389	True	96	39	H-J117
L-J138	Low	1,000	7	1,007	3,317	True	92	49	L-J5
L-J390	Low	1,000	0	1,000	3,500	True	94	49	L-J47
L-J92	Low	1,000	1	1,001	3,501	True	76	49	L-J5
L-J124	Low	1,000	0	1,000	3,500	True	79	49	L-J5
L-J120	Low	1,000	0	1,000	3,500	True	79	49	L-J5
L-J415	Low	1,000	2	1,002	3,502	True	79	49	L-J5
L-J34	Low	1,000	3	1,003	3,503	True	94	49	L-J5
L-J391	Low	1,000	2	1,002	3,502	True	94	49	L-J47
L-J323	Low	1,000	0	1,000	3,500	True	77	49	L-J5
L-J536	Low	1,000	3	1,003	2,599	True	80	49	L-J5
L-J501	Low	1,000	3	1,003	3,243	True	77	49	L-J5
L-J521	Low	1,000	3	1,003	3,503	True	94	49	L-J5
L-J380	Low	1,000	0	1,000	3,500	True	79	49	L-J5
L-J220	Low	1,000	18	1,018	3,086	True	92	49	L-J5
L-J24	Low	1,000	1	1,001	3,501	True	94	49	L-J5
L-J33	Low	1,000	1	1,001	3,501	True	94	49	L-J5
L-J401	Low	1,000	0	1,000	3,500	True	94	49	L-J5

GBWC-PD 2024 IRP - Calvada Valley System

Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J105	Low	1,000	5	1,005	3,505	True	80	49	L-J5
L-J321	Low	1,000	3	1,003	3,503	True	77	49	L-J5
L-J191	Low	1,000	3	1,003	3,503	True	94	49	L-J5
J-29	Low	0	0	1,000	2,512	True	78	49	L-J5
L-J393	Low	1,000	1	1,001	3,501	True	78	49	L-J5
L-J418	Low	1,000	1	1,001	3,501	True	79	49	L-J5
L-J107	Low	1,000	3	1,003	3,503	True	80	49	L-J5
L-J402	Low	1,000	0	1,000	3,500	True	95	49	L-J5
L-J318	Low	1,000	2	1,002	3,502	True	78	49	L-J5
L-J554	Low	1,000	3	1,003	2,627	True	81	49	L-J5
L-J119	Low	1,000	2	1,002	3,502	True	80	49	L-J5
L-J539	Low	1,000	3	1,003	2,622	True	81	49	L-J5
L-J379	Low	1,000	0	1,000	3,500	True	80	49	L-J5
L-J322	Low	1,000	1	1,001	3,501	True	78	49	L-J5
L-J32	Low	1,000	2	1,002	3,502	True	95	49	L-J5
L-J460	Low	1,000	0	1,000	2,646	True	82	49	L-J5
L-J519	Low	1,000	3	1,003	3,285	True	94	49	L-J5
L-J219	Low	1,000	0	1,000	3,124	True	94	49	L-J5
L-J298	Low	1,000	68	1,068	2,751	True	79	49	L-J5
L-J498	Low	1,000	3	1,003	3,503	True	79	49	L-J5
L-J112	Low	1,000	1	1,001	3,501	True	79	49	L-J5
L-J25	Low	1,000	1	1,001	3,501	True	96	49	L-J5
L-J27	Low	1,000	1	1,001	3,501	True	96	49	L-J5
L-J546	Low	1,000	3	1,003	3,073	True	94	49	L-J5
L-J96	Low	1,000	1	1,001	3,501	True	79	49	L-J5
L-J26	Low	1,000	1	1,001	3,501	True	96	49	L-J5
L-J31	Low	1,000	6	1,006	3,506	True	96	49	L-J5
L-J522	Low	1,000	3	1,003	3,503	True	96	49	L-J5
L-J578	Low	1,000	3	1,003	3,503	True	96	49	L-J5
L-J566	Low	1,000	3	1,003	3,503	True	82	49	L-J5
L-J28	Low	1,000	0	1,000	3,500	True	96	49	L-J5
L-J125	Low	1,000	1	1,001	3,501	True	81	49	L-J5
L-J423	Low	1,000	0	1,000	3,500	True	81	49	L-J5
L-J104	Low	1,000	4	1,004	3,504	True	82	49	L-J5
L-J459	Low	1,000	1	1,001	2,674	True	83	49	L-J5
L-J95	Low	1,000	3	1,003	3,503	True	80	49	L-J5
L-J118	Low	1,000	1	1,001	3,501	True	82	49	L-J5
L-J116	Low	1,000	4	1,004	3,504	True	82	49	L-J5
L-J453	Low	1,000	0	1,000	3,310	True	81	49	L-J5

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J153	Low	1,000	9	1,009	3,252	True	94	49	L-J5
L-J30	Low	1,000	6	1,006	3,506	True	97	49	L-J5
L-J303	Low	1,000	0	1,000	3,500	True	85	49	L-J5
L-J533	Low	1,000	3	1,003	3,503	True	82	49	L-J5
L-J450	Low	1,000	18	1,018	3,372	True	81	49	L-J5
H-J36	High	1,000	0	1,000	3,492	True	99	39	H-J117
L-J275	Low	1,000	0	1,000	2,637	True	83	49	L-J5
J-45	High	0	0	1,000	3,402	True	101	39	H-J117
L-J197	Low	1,000	0	1,000	3,222	True	95	49	L-J5
J-7	Low	0	0	1,000	2,633	True	84	49	L-J5
L-J218	Low	1,000	0	1,000	3,124	True	95	49	L-J5
L-J113	Low	1,000	3	1,003	3,503	True	81	49	L-J5
L-J420	Low	1,000	1	1,001	3,501	True	82	49	L-J5
L-J200	Low	1,000	0	1,000	3,500	True	83	49	L-J5
L-J276	Low	1,000	0	1,000	2,633	True	84	49	L-J5
L-J126	Low	1,000	2	1,002	3,502	True	83	49	L-J5
L-J103	Low	1,000	6	1,006	3,506	True	83	49	L-J5
L-J97	Low	1,000	3	1,003	3,503	True	81	49	L-J5
L-J29	Low	1,000	89	1,089	3,589	True	98	49	L-J5
L-J132	Low	1,000	0	1,000	3,500	True	83	49	L-J5
L-J319	Low	1,000	4	1,004	3,504	True	82	49	L-J5
L-J419	Low	1,000	1	1,001	3,501	True	83	49	L-J5
L-J117	Low	1,000	0	1,000	3,500	True	83	49	L-J5
J-32	Low	0	0	1,000	3,059	True	82	49	L-J5
L-J449	Low	1,000	1	1,001	3,501	True	84	49	L-J5
L-J534	Low	1,000	3	1,003	3,503	True	84	49	L-J5
L-J98	Low	1,000	4	1,004	3,504	True	82	49	L-J5
L-J152	Low	1,000	3	1,003	3,503	True	97	49	L-J5
L-J428	Low	1,000	2	1,002	3,502	True	84	49	L-J5
L-J427	Low	1,000	1	1,001	3,501	True	84	49	L-J5
L-J133	Low	1,000	1	1,001	3,501	True	99	49	L-J5
L-J209	Low	1,000	0	1,000	3,500	True	99	49	L-J5
L-J102	Low	1,000	9	1,009	3,509	True	85	49	L-J5
L-J135	Low	1,000	8	1,008	3,508	True	98	49	L-J5
L-J134	Low	1,000	0	1,000	3,500	True	99	49	L-J5
L-J429	Low	1,000	3	1,003	3,503	True	84	49	L-J5
L-J431	Low	1,000	3	1,003	3,503	True	84	49	L-J5
L-J430	Low	1,000	3	1,003	3,503	True	84	49	L-J5
H-J2	High	1,000	0	1,000	3,468	True	101	39	H-J117

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J452	Low	1,000	3	1,003	3,503	True	84	49	L-J5
L-J432	Low	1,000	3	1,003	3,503	True	84	49	L-J5
L-J433	Low	1,000	4	1,004	3,504	True	84	49	L-J5
L-J500	Low	1,000	3	1,003	3,503	True	83	49	L-J5
J-27	MVE	0	2	1,002	2,833	True	84	84	J-29
L-J499	Low	1,000	3	1,003	3,503	True	83	49	L-J5
L-J127	Low	1,000	37	1,037	3,464	True	84	49	L-J5
L-J146	Low	1,000	0	1,000	3,500	True	98	49	L-J5
L-J128	Low	1,000	0	1,000	3,500	True	85	49	L-J5
L-J434	Low	1,000	4	1,004	3,504	True	84	49	L-J5
L-J130	Low	1,000	0	1,000	3,500	True	85	49	L-J5
L-J131	Low	1,000	2	1,002	3,502	True	85	49	L-J5
L-J178	Low	1,000	1	1,001	3,390	True	98	49	L-J5
J-4	Low	0	0	1,000	3,500	True	83	49	L-J5
L-J151	Low	1,000	1	1,001	3,499	True	98	49	L-J5
L-J129	Low	1,000	0	1,000	3,500	True	85	49	L-J5
L-J181	Low	1,000	1	1,001	3,501	True	85	49	L-J5
L-J180	Low	1,000	4	1,004	3,504	True	85	49	L-J5
L-J240	Low	1,000	2	1,002	3,236	True	84	49	L-J5
L-J243	Low	1,000	2	1,002	3,158	True	84	49	L-J5
L-J234	Low	1,000	2	1,002	3,297	True	84	49	L-J5
L-J101	Low	1,000	7	1,007	3,507	True	85	49	L-J5
L-J530	Low	1,000	3	1,003	3,503	True	85	49	L-J5
L-J421	Low	1,000	0	1,000	3,500	True	85	49	L-J5
L-J241	Low	1,000	2	1,002	3,289	True	84	49	L-J5
L-J448	Low	1,000	2	1,002	3,502	True	85	49	L-J5
L-J435	Low	1,000	3	1,003	3,503	True	85	49	L-J5
L-J244	Low	1,000	2	1,002	3,206	True	84	49	L-J5
L-J115	Low	1,000	0	1,000	3,500	True	84	49	L-J5
L-J236	Low	1,000	2	1,002	3,250	True	84	49	L-J5
L-J246	Low	1,000	2	1,002	3,139	True	84	49	L-J5
J-30	Low	0	0	1,000	3,457	True	84	49	L-J5
L-J148	Low	1,000	88	1,088	3,476	True	99	49	L-J5
L-J232	Low	1,000	1	1,001	3,055	True	84	49	L-J5
L-J182	Low	1,000	6	1,006	3,506	True	85	49	L-J5
L-J247	Low	1,000	2	1,002	3,187	True	84	49	L-J5
L-J320	Low	1,000	3	1,003	3,503	True	84	49	L-J5
L-J147	Low	1,000	5	1,005	3,505	True	99	49	L-J5
L-J436	Low	1,000	0	1,000	3,500	True	85	49	L-J5

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J305	Low	1,000	0	1,000	3,500	True	86	49	L-J5
L-J503	Low	1,000	3	1,003	3,503	True	86	49	L-J5
L-J504	Low	1,000	3	1,003	3,503	True	86	49	L-J5
L-J447	Low	1,000	1	1,001	3,501	True	86	49	L-J5
L-J238	Low	1,000	2	1,002	3,283	True	85	49	L-J5
L-J424	Low	1,000	1	1,001	3,501	True	86	49	L-J5
L-J224	Low	1,000	9	1,009	3,509	True	85	49	L-J5
L-J114	Low	1,000	2	1,002	3,502	True	85	49	L-J5
L-J304	Low	1,000	0	1,000	3,500	True	86	49	L-J5
L-J106	Low	1,000	5	1,005	3,505	True	101	49	L-J5
L-J443	Low	1,000	3	1,003	3,503	True	86	49	L-J5
L-J437	Low	1,000	4	1,004	3,504	True	86	49	L-J5
L-J150	Low	1,000	1	1,001	3,230	True	100	49	L-J5
J-26	Low	0	0	1,000	3,160	True	86	49	L-J5
L-J438	Low	1,000	0	1,000	3,500	True	86	49	L-J5
L-J442	Low	1,000	3	1,003	3,503	True	86	49	L-J5
L-J446	Low	1,000	3	1,003	3,491	True	86	49	L-J5
J-27	Low	0	0	1,000	3,500	True	83	49	L-J5
L-J444	Low	1,000	2	1,002	3,502	True	86	49	L-J5
L-J439	Low	1,000	3	1,003	3,503	True	86	49	L-J5
L-J100	Low	1,000	4	1,004	3,504	True	87	49	L-J5
L-J445	Low	1,000	1	1,001	3,491	True	87	49	L-J5
L-J99	Low	1,000	2	1,002	3,502	True	86	49	L-J5
L-J440	Low	1,000	0	1,000	3,500	True	87	49	L-J5
L-J441	Low	1,000	4	1,004	3,504	True	87	49	L-J5
L-J422	Low	1,000	4	1,004	3,504	True	87	49	L-J5
L-J225	Low	1,000	2	1,002	3,502	True	86	49	L-J5
L-J228	Low	1,000	1	1,001	3,501	True	86	49	L-J5
L-J227	Low	1,000	2	1,002	3,502	True	86	49	L-J5
J-28	Low	0	0	1,000	3,485	True	82	49	L-J5
L-J149	Low	1,000	0	1,000	3,500	True	101	49	L-J5
L-J239	Low	1,000	2	1,002	3,502	True	86	49	L-J5
L-J242	Low	1,000	2	1,002	3,502	True	86	49	L-J5
L-J233	Low	1,000	2	1,002	3,502	True	86	49	L-J5
L-J226	Low	1,000	2	1,002	3,502	True	87	49	L-J5
L-J235	Low	1,000	2	1,002	3,502	True	87	49	L-J5
L-J245	Low	1,000	2	1,002	3,502	True	87	49	L-J5
L-J295	Low	1,000	0	1,000	3,500	True	86	49	L-J5
L-J294	Low	1,000	0	1,000	3,500	True	86	49	L-J5

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Action (2027) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J293	Low	1,000	0	1,000	3,500	True	87	49	L-J5
L-J231	Low	1,000	2	1,002	3,502	True	87	49	L-J5
L-J277	Low	1,000	0	1,000	3,500	True	87	49	L-J5
L-J237	Low	1,000	2	1,002	3,502	True	87	49	L-J5
L-J255	Low	1,000	4	1,004	3,504	True	87	49	L-J5
L-J268	Low	1,000	3	1,003	3,446	True	88	49	L-J5
L-J267	Low	1,000	2	1,002	3,460	True	88	49	L-J5
L-J274	Low	1,000	1	1,001	3,501	True	88	49	L-J5
L-J272	Low	1,000	4	1,004	3,381	True	88	49	L-J5
L-J254	Low	1,000	3	1,003	3,503	True	88	49	L-J5
L-J252	Low	1,000	4	1,004	3,356	True	88	49	L-J5
L-J266	Low	1,000	2	1,002	3,502	True	88	49	L-J5
L-J261	Low	1,000	2	1,002	3,458	True	88	49	L-J5
L-J265	Low	1,000	1	1,001	3,501	True	88	49	L-J5
L-J253	Low	1,000	4	1,004	3,504	True	88	49	L-J5
L-J260	Low	1,000	2	1,002	3,502	True	88	49	L-J5
L-J259	Low	1,000	2	1,002	3,502	True	88	49	L-J5
L-J262	Low	1,000	2	1,002	3,502	True	88	49	L-J5
L-J256	Low	1,000	4	1,004	3,504	True	88	49	L-J5
L-J271	Low	1,000	5	1,005	3,430	True	88	49	L-J5
L-J269	Low	1,000	6	1,006	3,506	True	88	49	L-J5
L-J263	Low	1,000	3	1,003	3,503	True	88	49	L-J5
L-J264	Low	1,000	4	1,004	3,504	True	88	49	L-J5
L-J230	Low	1,000	2	1,002	3,502	True	88	49	L-J5
L-J270	Low	1,000	4	1,004	3,504	True	88	49	L-J5
L-J229	Low	1,000	2	1,002	3,502	True	89	49	L-J5
L-J258	Low	1,000	3	1,003	3,503	True	88	49	L-J5
L-J248	Low	1,000	2	1,002	3,502	True	89	49	L-J5
L-J257	Low	1,000	3	1,003	3,503	True	89	49	L-J5
L-J249	Low	1,000	4	1,004	3,504	True	89	49	L-J5
L-J250	Low	1,000	3	1,003	3,503	True	90	49	L-J5
L-J567	Low	1,000	3	1,003	3,503	True	90	49	L-J5
L-J251	Low	1,000	0	1,000	3,500	True	90	49	L-J5
L-J273	Low	1,000	0	1,000	3,500	True	90	49	L-J5
L-J568	Low	1,000	3	1,003	3,503	True	90	49	L-J5
L-J292	Low	1,000	30	1,030	3,530	True	90	49	L-J5
L-J291	Low	1,000	0	1,000	3,500	True	90	49	L-J5
L-J289	Low	1,000	0	1,000	3,500	True	91	49	L-J5
L-J287	Low	1,000	0	1,000	3,500	True	91	49	L-J5

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) MDD+Fire Condition Distribution System Junction Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J290	Low	1,000	0	1,000	3,500	True	91	49	L-J5
L-J283	Low	1,000	0	1,000	3,500	True	91	49	L-J5
L-J286	Low	1,000	1	1,001	3,501	True	91	49	L-J5
L-J288	Low	1,000	1	1,001	3,501	True	92	49	L-J5
L-J282	Low	1,000	0	1,000	3,500	True	92	49	L-J5
L-J281	Low	1,000	1	1,001	3,501	True	92	49	L-J5
L-J284	Low	1,000	1	1,001	3,501	True	92	49	L-J5
L-J285	Low	1,000	0	1,000	3,500	True	92	49	L-J5
J-60	Low	0	0	1,000	3,500	True	117	57	J-52
J-58	Low	0	0	1,000	3,500	True	122	57	J-52

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J117	2,895.00	High	6	2,973.09	34
H-J116	2,891.00	High	6	2,973.09	36
H-J115	2,888.00	High	6	2,973.09	37
L-J5	2,736.00	Low	0	2,843.45	46
H-J118	2,870.00	High	6	2,973.09	45
L-J47	2,732.50	Low	4	2,837.37	45
H-J24	2,869.00	High	7	2,966.43	42
L-J48	2,733.50	Low	3	2,839.01	46
L-J334	2,732.50	Low	2	2,838.28	46
L-J201	2,733.00	Low	4	2,838.98	46
L-J46	2,728.00	Low	0	2,836.52	47
H-J119	2,866.00	High	6	2,973.09	46
L-J339	2,726.60	Low	3	2,836.73	48
L-J6	2,728.00	Low	0	2,843.16	50
H-J120	2,864.00	High	6	2,973.09	47
L-J340	2,726.00	Low	1	2,836.84	48
L-J335	2,727.00	Low	1	2,838.30	48
H-J25	2,862.00	High	8	2,966.44	45
H-J114	2,862.00	High	6	2,973.10	48
L-J474	2,730.00	Low	6	2,844.20	49
L-J341	2,723.80	Low	2	2,837.09	49
L-J196	2,727.50	Low	9	2,842.31	50
L-J195	2,728.00	Low	6	2,843.23	50
J-52	2,728.00	Low	0	2,843.23	50
L-J337	2,723.00	Low	2	2,837.43	50
L-J463	2,725.00	Low	4	2,839.89	50
L-J333	2,727.00	Low	1	2,844.25	51
L-J326	2,722.00	Low	4	2,838.33	50
L-J45	2,721.00	Low	2	2,837.19	50
L-J73	2,720.00	Low	1	2,837.45	51
L-J472	2,725.00	Low	6	2,844.21	52
L-J473	2,725.00	Low	6	2,844.24	52
L-J59	2,725.00	Low	24	2,844.25	52
L-J206	2,725.00	Low	0	2,844.50	52
L-J71	2,720.00	Low	0	2,838.35	51
L-J72	2,718.40	Low	2	2,837.47	52
J-41	2,730.00	High	0	2,858.54	56
J-42	2,730.00	High	0	2,858.54	56
J-43	2,730.00	High	0	2,858.54	56
L-J58	2,722.40	Low	6	2,843.24	52
L-J49	2,720.60	Low	5	2,841.44	52
H-J26	2,853.00	High	6	2,966.45	49
H-J99	2,853.00	High	4	2,973.33	52
H-J58	2,853.00	High	0	2,978.53	54
L-J44	2,718.50	Low	1	2,837.60	52

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J57	2,720.70	Low	6	2,842.32	53
H-J4	2,852.00	High	25	2,973.14	52
L-J331	2,719.00	Low	1	2,842.32	53
L-J565	2,720.00	Low	6	2,844.20	54
L-J51	2,717.30	Low	1	2,840.31	53
L-J56	2,715.90	Low	3	2,837.98	53
H-J3	2,850.20	High	0	2,973.14	53
L-J466	2,719.00	Low	6	2,844.20	54
L-J50	2,716.50	Low	6	2,840.72	54
L-J336	2,716.00	Low	1	2,840.31	54
L-J467	2,718.00	Low	6	2,844.20	55
L-J470	2,718.00	Low	6	2,844.20	55
L-J52	2,714.70	Low	3	2,839.92	54
H-J23	2,847.00	High	10	2,966.43	52
L-J55	2,712.80	Low	6	2,838.42	54
L-J468	2,716.00	Low	6	2,844.20	55
H-J48	2,722.00	High	0	2,859.12	59
L-J338	2,712.00	Low	1	2,839.92	55
L-J53	2,711.70	Low	4	2,839.54	55
L-J469	2,714.00	Low	6	2,844.21	56
L-J43	2,712.80	Low	6	2,837.63	54
L-J332	2,712.00	Low	1	2,841.47	56
L-J64	2,712.00	Low	3	2,842.32	56
H-J30	2,844.00	High	5	2,966.44	53
L-J54	2,709.10	Low	0	2,838.94	56
L-J465	2,712.00	Low	6	2,844.22	57
L-J464	2,712.00	Low	0	2,844.24	57
H-J29	2,842.00	High	1	2,966.45	54
L-J471	2,707.00	Low	6	2,840.31	58
H-J27	2,839.60	High	3	2,966.47	55
L-J74	2,715.70	Low	6	2,838.14	53
H-J33	2,839.00	High	1	2,966.46	55
L-J476	2,705.00	Low	6	2,839.91	58
L-J342	2,704.00	Low	0	2,839.81	59
L-J324	2,704.25	Low	2	2,841.51	59
H-J98	2,836.50	High	0	2,973.33	59
L-J580	2,705.00	Low	6	2,843.95	60
L-J475	2,703.00	Low	6	2,840.72	60
H-J57	2,836.00	High	3	2,973.58	60
L-J280	2,702.00	Low	21	2,838.94	59
L-J327	2,704.00	Low	0	2,843.95	61
L-J329	2,704.00	Low	0	2,843.95	61
L-J62	2,702.50	Low	7	2,843.16	61
H-J32	2,834.00	High	1	2,966.46	57
L-J477	2,700.00	Low	6	2,839.90	61

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J69	2,699.40	Low	1	2,838.94	60
L-J42	2,702.60	Low	4	2,837.60	58
L-J68	2,700.00	Low	0	2,840.72	61
L-J63	2,700.60	Low	4	2,842.32	61
H-J62	2,832.50	High	4	2,973.57	61
H-J34	2,831.60	High	3	2,966.49	58
L-J325	2,698.80	Low	1	2,841.54	62
L-J330	2,699.00	Low	1	2,842.32	62
L-J60	2,700.00	Low	4	2,843.95	62
J-1	2,697.00	Low	0	2,840.32	62
L-J65	2,697.00	Low	9	2,840.97	62
H-J97	2,829.70	High	4	2,965.08	59
L-J344	2,706.00	Low	1	2,838.14	57
L-J343	2,695.50	Low	1	2,838.94	62
L-J514	2,699.00	Low	6	2,837.59	60
L-J547	2,698.00	Low	6	2,843.95	63
H-J28	2,829.00	High	1	2,966.45	59
L-J66	2,696.00	Low	0	2,840.90	63
H-J88	2,828.00	High	6	2,973.32	63
L-J61	2,696.50	Low	3	2,843.95	64
J-47	2,700.00	Low	0	2,839.79	60
L-J67	2,694.00	Low	3	2,840.72	63
L-J41	2,696.30	Low	4	2,837.59	61
L-J75	2,716.00	Low	2	2,839.08	53
H-J31	2,825.00	High	1	2,966.44	61
H-J60	2,824.00	High	4	2,973.58	65
L-J363	2,700.00	Low	0	2,835.26	59
L-J479	2,691.00	Low	6	2,842.31	65
L-J561	2,689.00	Low	6	2,840.72	66
L-J7	2,690.00	Low	1	2,841.63	66
L-J8	2,690.00	Low	41	2,841.43	66
L-J40	2,692.00	Low	5	2,837.58	63
L-J516	2,718.00	Low	6	2,839.47	53
L-J352	2,720.00	Low	1	2,840.36	52
J-3	2,696.00	High	0	2,858.76	70
H-J96	2,820.00	High	4	2,956.08	59
H-J22	2,820.00	High	8	2,966.43	63
L-J515	2,714.00	Low	6	2,839.47	54
L-J39	2,688.00	Low	4	2,837.58	65
L-J205	2,691.00	Low	1	2,841.08	65
L-J351	2,720.00	Low	1	2,840.21	52
L-J577	2,718.00	Low	6	2,839.86	53
L-J564	2,693.00	Low	6	2,835.25	62
L-J563	2,692.00	Low	6	2,835.25	62
L-J362	2,692.00	Low	0	2,835.26	62

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J202	2,688.00	Low	0	2,841.25	66
L-J350	2,720.00	Low	4	2,840.15	52
L-J185	2,683.00	Low	0	2,841.63	69
L-J517	2,706.00	Low	6	2,840.76	58
J-2	2,706.00	Low	0	2,840.76	58
L-J17	2,684.80	Low	3	2,837.58	66
L-J345	2,684.00	Low	1	2,837.58	66
L-J559	2,685.00	Low	6	2,834.70	65
L-J510	2,683.00	Low	6	2,837.58	67
L-J347	2,683.50	Low	1	2,837.88	67
L-J349	2,683.50	Low	0	2,837.88	67
H-J95	2,812.00	High	8	2,945.31	58
H-J46	2,687.00	High	0	2,858.54	74
J-2	2,687.00	High	0	2,858.76	74
H-J109	2,687.00	High	6	2,858.83	74
L-J348	2,682.00	Low	0	2,837.88	67
L-J278	2,690.00	Low	16	2,835.26	63
L-J346	2,680.00	Low	1	2,837.58	68
L-J353	2,712.00	Low	1	2,840.21	55
L-J354	2,704.00	Low	1	2,840.51	59
H-J105	2,690.00	High	24	2,867.99	77
L-J562	2,678.00	Low	6	2,837.58	69
H-J4-A	2,799.00	High	0	2,889.22	39
L-J203	2,693.00	Low	1	2,840.85	64
H-J63	2,805.00	High	2	2,965.08	69
H-J111	2,682.00	High	6	2,860.67	77
H-J45	2,680.00	High	0	2,859.12	77
L-J361	2,680.00	Low	0	2,835.25	67
L-J360	2,680.00	Low	0	2,835.25	67
H-J64	2,803.00	High	3	2,956.08	66
L-J357	2,674.50	Low	0	2,834.70	69
H-J113	2,680.00	High	6	2,861.79	79
L-J359	2,678.00	Low	0	2,835.25	68
L-J356	2,673.50	Low	5	2,834.70	70
H-J51	2,679.00	High	3	2,861.79	79
L-J183	2,673.20	Low	5	2,834.87	70
L-J15	2,671.70	Low	1	2,834.57	70
L-J14	2,671.80	Low	0	2,834.70	70
L-J184	2,671.30	Low	1	2,834.70	71
H-J83	2,677.00	High	6	2,861.79	80
L-J358	2,675.00	Low	1	2,835.25	69
J-46	2,700.00	Low	0	2,840.60	61
L-J13	2,670.50	Low	43	2,834.87	71
L-J9	2,670.50	Low	3	2,835.29	71
L-J573	2,669.00	Low	6	2,835.27	72

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J79	2,678.00	High	18	2,865.30	81
H-J556-A	2,790.00	High	6	2,889.22	43
H-J61	2,796.50	High	3	2,973.57	77
L-J16	2,667.90	Low	0	2,834.31	72
L-J12	2,672.00	Low	6	2,835.25	71
L-J560	2,667.00	Low	6	2,834.57	73
L-J569	2,666.00	Low	6	2,833.70	73
H-J104	2,674.00	High	0	2,864.62	82
H-J44	2,794.00	High	3	2,973.57	78
H-J43	2,794.00	High	1	2,973.57	78
L-J11	2,670.00	Low	9	2,835.26	71
H-J82	2,671.00	High	6	2,862.16	83
H-J42	2,792.00	High	1	2,973.57	79
L-J10	2,668.20	Low	16	2,835.27	72
H-J49	2,668.00	High	3	2,860.67	83
H-J126	2,790.00	High	6	2,956.08	72
L-J513	2,661.00	Low	6	2,833.36	75
H-J81	2,668.00	High	31	2,862.66	84
J-23	2,665.00	High	0	2,858.60	84
L-J579	2,660.00	Low	6	2,833.23	75
L-J512	2,660.00	Low	6	2,833.36	75
H-J50	2,666.00	High	0	2,860.67	84
H-J56	2,774.00	High	0	2,876.86	45
L-J575	2,659.00	Low	6	2,833.50	75
J-48	2,700.00	Low	0	2,840.42	61
H-J84	2,664.00	High	0	2,859.84	85
L-J408	2,658.50	Low	1	2,833.70	76
H-155	2,787.00	High	6	2,973.57	81
L-J86	2,658.30	Low	4	2,833.58	76
L-J87	2,657.50	Low	1	2,833.53	76
L-J511	2,657.00	Low	6	2,833.36	76
H-J52	2,663.00	High	12	2,861.39	86
H-J65	2,785.00	High	2	2,945.31	69
H-J53	2,662.00	High	9	2,860.55	86
H-J112	2,662.00	High	6	2,860.76	86
L-J212	2,655.00	Low	2	2,833.16	77
L-J85	2,655.00	Low	6	2,833.26	77
L-J18	2,655.00	Low	23	2,833.49	77
H-J89	2,660.00	High	0	2,859.56	86
H-J110	2,659.00	High	6	2,858.24	86
H-J41	2,783.00	High	2	2,903.62	52
H-J130	2,783.00	High	6	2,973.57	82
H-J101	2,768.00	High	0	2,876.86	47
J-24	2,658.00	High	0	2,858.75	87
L-J525	2,654.00	Low	6	2,833.55	78

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J83	2,652.20	Low	3	2,833.01	78
L-J84	2,652.00	Low	3	2,833.01	78
L-J78	2,651.80	Low	4	2,832.90	78
H-J85	2,657.00	High	9	2,859.57	88
L-J526	2,653.00	Low	6	2,833.55	78
L-J77	2,651.00	Low	13	2,833.01	79
L-J204	2,703.00	Low	1	2,840.25	59
L-J412	2,652.00	Low	0	2,833.55	79
L-J76	2,650.20	Low	6	2,833.15	79
L-J19	2,649.80	Low	2	2,833.24	79
H-J131	2,778.00	High	6	2,945.31	72
L-J190	2,648.80	Low	4	2,833.01	80
L-J524	2,650.00	Low	6	2,833.55	79
L-J413	2,649.50	Low	0	2,833.55	80
L-J383	2,648.00	Low	2	2,832.80	80
L-J407	2,648.00	Low	1	2,833.33	80
L-J88	2,648.00	Low	14	2,833.34	80
H-J47	2,652.00	High	3	2,858.12	89
L-J189	2,647.80	Low	4	2,833.15	80
L-J90	2,647.80	Low	1	2,833.26	80
L-J166	2,649.00	Low	0	2,831.98	79
L-J411	2,648.50	Low	6	2,833.55	80
L-J38	2,648.50	Low	31	2,833.55	80
L-J382	2,647.00	Low	1	2,832.84	80
L-J89	2,647.00	Low	1	2,833.29	81
L-J20	2,646.50	Low	7	2,833.00	81
L-J211	2,646.00	Low	2	2,832.73	81
H-J90	2,650.00	High	38	2,857.95	90
L-J384	2,645.00	Low	3	2,832.75	81
H-J55	2,759.00	High	0	2,876.86	51
H-J86	2,650.00	High	22	2,859.65	91
L-J527	2,651.00	Low	6	2,828.93	77
L-J79	2,644.20	Low	6	2,832.73	82
L-J208	2,643.00	Low	6	2,832.16	82
L-J21	2,643.00	Low	3	2,832.16	82
L-J188	2,643.00	Low	1	2,833.29	82
H-J124	2,771.00	High	6	2,903.62	57
L-J388	2,642.00	Low	1	2,831.80	82
L-J389	2,642.00	Low	1	2,831.80	82
L-J80	2,642.10	Low	4	2,832.66	82
L-J179	2,642.00	Low	4	2,832.66	82
L-J137	2,648.00	Low	19	2,828.96	78
L-J367	2,683.00	Low	3	2,826.85	62
H-J40	2,770.00	High	4	2,903.62	58
H-134	2,758.00	High	6	2,881.43	53

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Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J542	2,655.00	Low	6	2,827.77	75
L-J157	2,684.00	Low	6	2,826.81	62
L-J366	2,682.00	Low	9	2,826.85	63
L-J81	2,640.20	Low	6	2,832.62	83
J-25	2,644.00	High	0	2,857.65	92
L-J213	2,683.00	Low	8	2,826.77	62
L-J368	2,656.00	Low	6	2,827.77	74
L-J541	2,661.00	Low	6	2,827.54	72
H-J108	2,767.00	High	6	2,899.81	57
H-J54	2,753.00	High	0	2,876.86	54
L-J165	2,640.00	Low	1	2,831.98	83
L-J414	2,640.00	Low	1	2,831.91	83
H-J94	2,767.00	High	11	2,903.62	59
L-J22	2,638.10	Low	2	2,831.89	84
L-J37	2,639.00	Low	43	2,832.11	84
L-J555	2,686.00	Low	6	2,826.81	61
H-J59	2,766.00	High	4	2,973.31	90
L-J176	2,638.50	Low	4	2,832.11	84
L-J154	2,653.50	Low	3	2,827.77	75
L-J372	2,650.00	Low	3	2,827.78	77
L-J145	2,636.20	Low	6	2,831.80	85
L-J369	2,658.00	Low	3	2,827.54	73
J-17	2,753.00	High	0	2,881.43	56
L-J82	2,635.80	Low	5	2,832.21	85
L-J406	2,635.70	Low	3	2,831.68	85
L-J23	2,635.70	Low	3	2,831.68	85
L-J210	2,635.00	Low	4	2,832.21	85
L-J174	2,636.40	Low	1	2,831.87	85
L-J155	2,656.50	Low	0	2,827.54	74
L-J543	2,649.00	Low	6	2,827.77	77
L-J36	2,636.00	Low	8	2,831.87	85
L-J167	2,636.00	Low	1	2,831.87	85
H-J73	2,756.00	High	5	2,889.22	58
L-J370	2,656.00	Low	3	2,827.54	74
H-135	2,751.00	High	6	2,881.43	56
L-J158	2,684.00	Low	0	2,826.81	62
J-26	2,628.00	Low	0	2,845.27	94
H-J72	2,755.00	High	0	2,889.50	58
L-J486	2,633.00	Low	6	2,831.56	86
L-J173	2,634.30	Low	3	2,831.63	85
L-J156	2,666.00	Low	26	2,827.08	70
L-J481	2,633.00	Low	6	2,831.07	86
L-J91	2,631.80	Low	1	2,831.80	87
H-136	2,749.00	High	6	2,881.43	57
L-J455	2,637.30	Low	0	2,828.37	83

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Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J404	2,632.00	Low	0	2,831.42	86
L-J405	2,632.00	Low	3	2,831.42	86
L-J35	2,633.00	Low	5	2,831.63	86
L-J487	2,631.00	Low	6	2,831.74	87
L-J488	2,631.00	Low	6	2,831.74	87
J-3	2,631.00	Low	0	2,831.80	87
H-154	2,760.00	High	6	2,973.31	92
H-J125	2,759.00	High	6	2,899.81	61
L-J365	2,684.00	Low	6	2,826.80	62
L-J175	2,632.50	Low	2	2,831.75	86
L-J529	2,636.00	Low	6	2,829.10	84
L-J172	2,632.20	Low	2	2,831.34	86
L-J139	2,635.80	Low	7	2,829.10	84
L-J489	2,630.00	Low	6	2,831.74	87
L-J385	2,630.00	Low	4	2,831.82	87
L-J143	2,632.00	Low	25	2,830.92	86
L-J485	2,630.00	Low	6	2,831.56	87
L-J142	2,631.70	Low	1	2,830.92	86
L-J141	2,631.50	Low	2	2,831.01	86
L-J544	2,642.00	Low	6	2,827.79	80
L-J374	2,642.00	Low	9	2,827.79	80
L-J144	2,631.50	Low	0	2,830.92	86
L-J496	2,628.00	Low	6	2,831.58	88
L-J34	2,631.20	Low	5	2,831.34	87
L-J491	2,629.00	Low	6	2,831.69	88
L-J490	2,629.00	Low	6	2,831.69	88
L-J492	2,629.00	Low	6	2,831.69	88
L-J493	2,629.00	Low	6	2,831.68	88
L-J386	2,629.00	Low	1	2,831.81	88
L-J171	2,630.80	Low	6	2,831.22	87
L-J371	2,642.00	Low	16	2,827.78	80
L-J33	2,630.20	Low	2	2,831.22	87
H-J13	2,742.00	High	3	2,875.91	58
L-J387	2,628.00	Low	1	2,831.74	88
H-J38	2,756.00	High	2	2,899.81	62
L-J207	2,682.00	Low	0	2,826.80	63
L-J373	2,640.00	Low	0	2,827.79	81
L-J136	2,633.00	Low	6	2,829.11	85
H-J12	2,741.00	High	2	2,875.91	58
H-J20	2,741.00	High	0	2,875.91	58
L-J403	2,628.00	Low	0	2,831.23	88
L-J24	2,628.00	Low	1	2,831.23	88
L-J390	2,627.00	Low	0	2,831.68	89
L-J187	2,628.00	Low	6	2,831.07	88
L-J480	2,628.00	Low	6	2,831.07	88

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Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-8	2,755.00	High	0	2,899.81	63
H-J107	2,755.00	High	6	2,899.81	63
L-J376	2,638.00	Low	6	2,827.82	82
L-J528	2,632.00	Low	6	2,829.10	85
H-J93	2,755.00	High	5	2,902.15	64
L-J391	2,626.00	Low	3	2,831.68	89
L-J170	2,628.00	Low	2	2,831.10	88
L-J169	2,628.00	Low	4	2,830.98	88
L-J32	2,627.80	Low	4	2,831.10	88
H-J18	2,739.00	High	0	2,875.91	59
L-J375	2,636.00	Low	19	2,827.82	83
L-J223	2,668.00	Low	9	2,826.69	69
H-J37	2,750.00	High	1	2,895.55	63
H-156	2,738.00	High	6	2,875.91	60
L-J484	2,625.00	Low	6	2,831.20	89
J-13	2,667.82	Low	0	2,826.69	69
L-J31	2,626.00	Low	10	2,830.98	89
L-J168	2,626.00	Low	5	2,830.84	89
H-J80	2,733.00	High	0	2,869.34	59
L-J111	2,618.50	Low	5	2,831.45	92
L-J478	2,667.00	Low	6	2,826.69	69
L-J27	2,624.50	Low	2	2,831.00	89
H-J15	2,737.00	High	0	2,875.91	60
H-J11	2,736.90	High	0	2,875.91	60
L-J25	2,624.00	Low	2	2,831.15	90
L-J402	2,624.00	Low	0	2,831.15	90
L-J409	2,620.00	Low	0	2,831.48	91
L-J26	2,624.00	Low	2	2,831.07	90
L-J401	2,624.00	Low	0	2,831.07	90
L-J94	2,620.00	Low	6	2,831.49	91
H-J10	2,736.60	High	0	2,875.91	60
L-J138	2,628.50	Low	12	2,829.09	87
L-J28	2,624.00	Low	0	2,830.93	90
L-J191	2,624.80	Low	5	2,830.78	89
L-J410	2,621.00	Low	0	2,831.58	91
L-J92	2,621.00	Low	1	2,831.58	91
J-23	2,740.10	High	0	2,882.43	62
L-J426	2,628.00	Low	5	2,829.09	87
L-J30	2,624.20	Low	10	2,830.84	89
L-J483	2,623.00	Low	6	2,831.21	90
J-22	2,740.00	High	0	2,882.55	62
J-21	2,740.00	High	0	2,882.64	62
L-J395	2,619.00	Low	0	2,831.48	92
L-J519	2,627.00	Low	6	2,829.26	88
L-J571	2,617.00	Low	6	2,831.45	93

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Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J522	2,624.00	Low	6	2,830.50	89
L-J392	2,620.00	Low	1	2,831.58	92
L-J214	2,665.00	Low	12	2,826.69	70
J-15	2,664.97	Low	0	2,826.69	70
H-J16	2,735.00	High	0	2,875.91	61
L-J507	2,622.00	Low	6	2,831.20	91
L-J578	2,623.00	Low	6	2,830.67	90
L-J93	2,618.00	Low	4	2,831.51	92
H-J9	2,734.20	High	0	2,875.91	61
L-J454	2,626.00	Low	0	2,828.37	88
H-J121	2,748.00	High	6	2,898.80	65
H-J8	2,733.90	High	3	2,875.91	61
L-J159	2,676.00	Low	0	2,826.80	65
J-20	2,738.00	High	0	2,882.66	63
L-J398	2,615.00	Low	1	2,831.45	94
L-J186	2,621.00	Low	4	2,831.00	91
L-J160	2,676.00	Low	2	2,826.80	65
L-J29	2,621.50	Low	156	2,830.68	91
L-J495	2,618.00	Low	6	2,831.58	92
L-J221	2,663.00	Low	0	2,826.69	71
L-J506	2,620.00	Low	6	2,831.20	91
L-J482	2,620.00	Low	6	2,831.21	91
H-J87	2,738.00	High	2	2,884.28	63
L-J521	2,621.00	Low	6	2,830.50	91
L-J520	2,623.00	Low	6	2,829.25	89
H-133	2,735.00	High	6	2,882.78	64
L-J509	2,612.00	Low	6	2,831.45	95
L-J133	2,619.20	Low	2	2,830.43	91
J-14	2,660.00	Low	0	2,826.69	72
L-J134	2,618.90	Low	1	2,830.32	91
L-J508	2,611.00	Low	6	2,831.45	95
L-J557	2,617.00	Low	6	2,831.00	93
H-J7	2,729.00	High	18	2,875.91	64
L-J177	2,610.00	Low	4	2,831.53	96
L-J135	2,619.00	Low	14	2,829.53	91
L-J400	2,610.00	Low	4	2,831.46	96
L-J109	2,610.00	Low	8	2,831.45	96
L-J397	2,610.00	Low	0	2,831.45	96
L-J364	2,672.00	Low	2	2,826.80	67
L-J194	2,619.00	Low	1	2,829.07	91
H-J123	2,742.00	High	6	2,898.80	68
H-J74	2,736.00	High	5	2,888.93	66
H-J39	2,742.00	High	1	2,899.81	68
H-J71	2,736.00	High	2	2,889.84	67
H-J122	2,741.00	High	6	2,898.79	68

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Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J494	2,610.00	Low	6	2,831.46	96
L-J417	2,608.00	Low	1	2,831.52	97
L-J415	2,608.00	Low	3	2,831.51	97
L-J416	2,608.00	Low	1	2,831.51	97
L-J321	2,609.90	Low	5	2,831.47	96
L-J396	2,608.00	Low	5	2,831.45	97
L-J323	2,609.40	Low	1	2,831.46	96
L-J105	2,607.80	Low	8	2,831.46	97
L-J110	2,607.80	Low	4	2,831.46	97
L-J209	2,615.00	Low	0	2,830.50	93
L-J162	2,607.00	Low	1	2,831.49	97
L-J322	2,608.70	Low	1	2,831.46	96
L-J377	2,606.80	Low	1	2,831.49	97
L-J108	2,607.00	Low	0	2,831.45	97
L-J161	2,669.00	Low	2	2,826.80	68
H-J70	2,735.00	High	1	2,891.34	68
L-J146	2,616.00	Low	1	2,829.07	92
L-J393	2,608.00	Low	2	2,831.45	97
L-J96	2,608.00	Low	1	2,831.46	97
L-J112	2,607.50	Low	2	2,831.46	97
L-J220	2,616.25	Low	31	2,828.37	92
L-J425	2,605.50	Low	2	2,831.52	98
L-J122	2,605.50	Low	1	2,831.52	98
J-36	2,605.00	Low	0	2,839.59	101
L-J215	2,654.00	Low	14	2,826.69	75
L-J199	2,620.00	Low	1	2,827.93	90
H-J69	2,733.90	High	0	2,892.56	69
L-J106	2,612.00	Low	8	2,830.65	95
L-J121	2,604.70	Low	3	2,831.53	98
L-J303	2,604.50	Low	0	2,840.45	102
L-J95	2,606.00	Low	6	2,831.46	98
J-39	2,604.00	Low	0	2,839.59	102
J-40	2,604.00	Low	0	2,839.59	102
L-J219	2,614.80	Low	0	2,828.37	92
L-J120	2,604.00	Low	0	2,831.54	98
L-J119	2,604.00	Low	4	2,831.55	98
H-J68	2,733.40	High	1	2,894.34	70
J-35	2,603.00	Low	0	2,839.59	102
J-37	2,603.00	Low	0	2,839.59	102
L-J163	2,603.00	Low	0	2,831.49	99
L-J104	2,603.00	Low	7	2,831.46	99
L-J502	2,603.00	Low	6	2,831.45	99
L-J123	2,602.50	Low	6	2,831.49	99
L-J558	2,604.00	Low	6	2,831.45	98
L-J147	2,612.00	Low	10	2,828.76	94

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PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J148	2,612.00	Low	154	2,828.62	94
J-38	2,602.00	Low	0	2,839.59	103
J-27	2,602.00	Low	0	2,842.51	104
L-J113	2,603.50	Low	6	2,831.45	99
J-28	2,602.00	Low	0	2,843.76	105
L-J193	2,602.00	Low	3	2,831.55	99
L-J399	2,602.00	Low	2	2,831.46	99
L-J498	2,603.00	Low	6	2,831.45	99
H-J76	2,722.00	High	140	2,878.23	68
L-J118	2,601.50	Low	1	2,831.55	100
H-J5	2,720.00	High	0	2,875.38	67
J-16	2,722.57	High	0	2,879.49	68
L-J218	2,612.00	Low	0	2,828.37	94
L-J222	2,650.00	Low	0	2,826.69	76
H-J67	2,732.00	High	1	2,895.55	71
L-J198	2,613.50	Low	1	2,828.17	93
H-J75	2,728.00	High	46	2,888.90	70
J-19	2,724.25	High	0	2,882.76	69
L-J124	2,601.00	Low	0	2,831.49	100
L-J378	2,601.00	Low	1	2,831.49	100
L-J97	2,602.30	Low	5	2,831.45	99
L-J153	2,615.50	Low	16	2,827.93	92
L-J546	2,612.00	Low	6	2,828.27	94
L-J116	2,600.50	Low	6	2,831.56	100
J-33	2,600.00	Low	0	2,839.59	104
L-J318	2,601.30	Low	4	2,831.45	100
H-J92	2,734.00	High	16	2,900.85	72
L-J132	2,600.00	Low	1	2,831.60	100
L-J423	2,600.00	Low	0	2,831.55	100
L-J178	2,609.50	Low	1	2,828.69	95
L-J379	2,599.80	Low	0	2,831.49	100
L-J380	2,599.80	Low	1	2,831.49	100
L-J103	2,600.00	Low	10	2,831.46	100
L-J107	2,600.00	Low	5	2,831.45	100
L-J545	2,612.00	Low	6	2,828.17	94
L-J197	2,611.00	Low	1	2,828.27	94
L-J117	2,599.50	Low	1	2,831.58	100
L-J298	2,599.00	Low	119	2,839.59	104
J-34	2,599.00	Low	0	2,839.59	104
J-31	2,599.00	Low	0	2,839.69	104
J-32	2,599.00	Low	0	2,839.69	104
L-J152	2,611.50	Low	5	2,828.18	94
H-J106	2,732.50	High	6	2,899.82	72
L-J418	2,599.00	Low	1	2,831.60	101
L-J501	2,600.00	Low	6	2,831.45	100

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Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J304	2,598.60	Low	0	2,840.45	105
L-J305	2,598.40	Low	0	2,840.45	105
L-J125	2,598.50	Low	2	2,831.49	101
L-J428	2,598.50	Low	4	2,831.88	101
L-J427	2,598.50	Low	2	2,831.85	101
L-J319	2,599.60	Low	6	2,831.45	100
L-J151	2,610.00	Low	1	2,828.27	94
H-J66	2,731.00	High	0	2,898.80	73
J-29	2,598.00	Low	0	2,839.77	105
J-30	2,598.00	Low	0	2,839.77	105
L-J98	2,599.30	Low	6	2,831.45	100
H-J77	2,717.00	High	37	2,875.93	69
L-J381	2,598.00	Low	1	2,831.49	101
L-J192	2,598.00	Low	8	2,831.56	101
L-J126	2,597.50	Low	4	2,831.49	101
H-J100	2,717.00	High	34	2,876.86	69
H-J6	2,715.90	High	0	2,875.38	69
L-J102	2,597.50	Low	15	2,831.46	101
L-J228	2,597.00	Low	1	2,839.15	105
L-J434	2,597.00	Low	7	2,833.27	102
L-J433	2,597.00	Low	6	2,832.95	102
L-J432	2,597.00	Low	6	2,832.76	102
L-J431	2,597.00	Low	6	2,832.55	102
L-J430	2,597.00	Low	5	2,832.36	102
L-J429	2,597.00	Low	6	2,832.23	102
L-J452	2,597.00	Low	4	2,832.06	102
L-J127	2,597.00	Low	65	2,831.90	102
L-J227	2,596.81	Low	3	2,838.88	105
L-J128	2,597.00	Low	0	2,831.78	102
L-J419	2,597.00	Low	1	2,831.62	102
L-J499	2,598.00	Low	6	2,831.45	101
L-J130	2,596.90	Low	1	2,831.63	102
L-J566	2,597.00	Low	6	2,831.46	101
L-J150	2,607.50	Low	1	2,828.38	96
L-J224	2,596.50	Low	15	2,836.04	104
L-J225	2,596.45	Low	4	2,837.78	104
L-J131	2,596.50	Low	4	2,831.62	102
L-J129	2,596.30	Low	1	2,831.66	102
L-J295	2,596.00	Low	0	2,839.83	105
L-J294	2,596.00	Low	0	2,839.92	106
J-7	2,645.00	Low	0	2,826.68	79
L-J293	2,596.00	Low	0	2,840.25	106
L-J182	2,596.00	Low	11	2,834.24	103
L-J435	2,596.00	Low	5	2,833.71	103
L-J277	2,595.87	Low	0	2,840.45	106

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J180	2,596.00	Low	8	2,831.62	102
J-5	2,644.75	Low	0	2,826.68	79
L-J420	2,596.00	Low	1	2,831.58	102
L-J500	2,597.00	Low	6	2,831.45	101
L-J115	2,596.70	Low	1	2,831.45	102
L-J164	2,595.80	Low	2	2,831.49	102
L-J200	2,596.00	Low	1	2,831.46	102
L-J149	2,606.00	Low	0	2,828.45	96
L-J234	2,595.11	Low	3	2,838.28	105
L-J241	2,595.11	Low	3	2,838.78	105
L-J240	2,595.11	Low	3	2,838.78	105
L-J101	2,595.50	Low	13	2,831.46	102
L-J226	2,594.93	Low	4	2,838.23	105
L-J449	2,595.00	Low	2	2,831.89	102
L-J320	2,596.00	Low	5	2,831.45	102
L-J450	2,594.00	Low	32	2,833.06	103
L-J453	2,594.00	Low	0	2,833.06	103
L-J236	2,593.81	Low	3	2,838.33	106
L-J243	2,593.81	Low	3	2,838.69	106
L-J244	2,593.81	Low	3	2,838.69	106
L-J114	2,595.00	Low	4	2,831.45	102
L-J533	2,594.00	Low	6	2,831.55	103
L-J233	2,593.66	Low	4	2,838.28	106
L-J239	2,593.66	Low	3	2,838.78	106
L-J540	2,642.00	Low	6	2,826.67	80
J-10	2,642.00	Low	0	2,826.68	80
L-J394	2,594.00	Low	7	2,831.45	103
J-4	2,594.00	Low	0	2,831.45	103
L-J532	2,593.00	Low	6	2,831.56	103
L-J534	2,593.00	Low	6	2,831.55	103
L-J503	2,593.00	Low	6	2,831.46	103
L-J504	2,593.00	Low	6	2,831.46	103
L-J238	2,592.41	Low	3	2,838.38	106
L-J246	2,592.41	Low	3	2,838.62	107
L-J247	2,592.41	Low	3	2,838.62	107
L-J235	2,592.36	Low	4	2,838.33	106
L-J242	2,592.36	Low	3	2,838.69	107
L-J550	2,712.00	Low	6	2,876.83	71
L-J549	2,712.00	Low	6	2,876.83	71
L-J216	2,641.00	Low	19	2,826.68	80
L-J99	2,593.20	Low	4	2,831.45	103
L-J100	2,592.30	Low	8	2,831.46	103
L-J181	2,592.00	Low	1	2,831.58	104
L-J443	2,591.60	Low	5	2,832.23	104
H-J91	2,706.00	High	52	2,869.34	71

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J442	2,591.10	Low	4	2,832.36	104
J-6	2,640.00	Low	0	2,826.68	81
J-8	2,640.00	Low	0	2,826.68	81
J-9	2,640.00	Low	0	2,826.68	81
J-11	2,640.00	Low	0	2,826.68	81
J-12	2,640.00	Low	0	2,826.68	81
L-J237	2,590.96	Low	3	2,838.38	107
L-J245	2,590.96	Low	3	2,838.62	107
L-J232	2,590.88	Low	1	2,838.56	107
L-J444	2,591.00	Low	4	2,832.10	104
L-J422	2,591.00	Low	8	2,831.55	104
L-J445	2,590.80	Low	2	2,832.01	104
L-J446	2,590.80	Low	5	2,831.97	104
L-J447	2,590.80	Low	2	2,831.95	104
L-J448	2,590.80	Low	3	2,831.93	104
L-J505	2,591.00	Low	6	2,831.46	104
L-J231	2,590.18	Low	3	2,838.56	107
L-J229	2,590.00	Low	4	2,838.45	107
L-J438	2,590.00	Low	0	2,832.79	105
L-J439	2,590.00	Low	6	2,832.70	105
L-J440	2,590.00	Low	0	2,832.60	105
L-J441	2,590.00	Low	6	2,832.50	105
L-J230	2,589.88	Low	4	2,838.45	108
H-J36	2,728.00	High	0	2,902.21	75
L-J421	2,590.00	Low	1	2,831.58	105
L-J424	2,590.00	Low	2	2,831.56	105
L-J436	2,589.20	Low	0	2,832.87	105
L-J437	2,589.20	Low	8	2,832.83	105
L-J255	2,588.70	Low	7	2,838.45	108
J-5	2,590.00	Low	0	2,831.45	104
L-J254	2,588.49	Low	5	2,838.45	108
L-J256	2,588.40	Low	6	2,838.45	108
L-J274	2,588.17	Low	2	2,838.45	108
L-J248	2,588.00	Low	4	2,838.45	108
L-J265	2,587.95	Low	2	2,838.45	108
L-J269	2,587.75	Low	10	2,838.45	108
L-J530	2,588.00	Low	6	2,831.56	105
L-J253	2,587.64	Low	7	2,838.45	109
L-J267	2,587.62	Low	3	2,838.45	109
L-J264	2,587.62	Low	6	2,838.45	109
L-J268	2,587.61	Low	6	2,838.45	109
L-J266	2,587.40	Low	3	2,838.45	109
L-J270	2,587.40	Low	6	2,838.46	109
L-J263	2,587.39	Low	5	2,838.45	109
L-J259	2,587.14	Low	3	2,838.45	109

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J262	2,587.12	Low	4	2,838.45	109
L-J567	2,587.00	Low	6	2,838.93	109
L-J260	2,586.85	Low	4	2,838.45	109
L-J258	2,586.85	Low	6	2,838.45	109
L-J251	2,586.71	Low	0	2,838.64	109
L-J273	2,586.60	Low	0	2,838.68	109
L-J257	2,586.58	Low	6	2,838.46	109
L-J249	2,586.56	Low	6	2,838.48	109
L-J261	2,586.54	Low	4	2,838.45	109
L-J272	2,586.54	Low	8	2,838.47	109
J-25	2,586.35	High	0	2,838.73	109
L-J568	2,586.00	Low	6	2,838.76	109
L-J250	2,585.96	Low	6	2,838.55	109
L-J217	2,635.00	Low	16	2,826.67	83
L-J252	2,585.73	Low	7	2,838.48	109
L-J271	2,585.70	Low	8	2,838.51	109
H-J2	2,721.00	High	1	2,901.38	78
L-J291	2,584.50	Low	0	2,838.75	110
L-J292	2,584.00	Low	52	2,838.76	110
L-J290	2,583.00	Low	0	2,838.73	111
L-J287	2,582.50	Low	1	2,838.72	111
L-J289	2,582.41	Low	0	2,838.71	111
H-J78	2,697.00	High	28	2,869.37	75
L-J281	2,582.00	Low	3	2,838.73	111
L-J282	2,582.00	Low	0	2,838.73	111
L-J283	2,581.90	Low	1	2,838.73	111
L-J284	2,581.70	Low	2	2,838.73	111
L-J288	2,581.70	Low	2	2,838.73	111
L-J285	2,581.40	Low	0	2,838.72	111
L-J548	2,701.00	Low	32	2,876.82	76
L-J551	2,701.00	Low	6	2,876.83	76
L-J552	2,701.00	Low	6	2,876.83	76
L-J553	2,701.00	Low	6	2,876.83	76
L-J286	2,581.20	Low	2	2,838.72	111
J-28	2,579.20	MVE	3	2,717.90	60
J-29	2,579.20	MVE	3	2,717.90	60
J-30	2,579.20	MVE	3	2,717.92	60
J-27	2,579.20	MVE	3	2,717.93	60
J-26	2,579.20	Low	0	2,832.86	110
L-J461	2,618.00	Low	0	2,826.66	90
L-J536	2,618.00	Low	6	2,826.66	90
L-J554	2,617.00	Low	6	2,826.66	91
J-6	2,617.00	Low	0	2,826.66	91
L-J539	2,616.00	Low	6	2,826.66	91
L-J460	2,616.00	Low	1	2,826.66	91

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-45	2,684.00	High	0	2,873.30	82
L-J462	2,615.00	Low	1	2,826.66	92
L-J459	2,613.70	Low	2	2,826.66	92
L-J275	2,611.60	Low	1	2,826.66	93
J-7	2,611.00	Low	0	2,826.66	93
L-J457	2,610.00	Low	1	2,826.66	94
J-1	2,610.00	Low	0	2,826.66	94
L-J456	2,609.10	Low	0	2,826.66	94
L-J276	2,608.90	Low	0	2,826.66	94
J-18	2,722.00	High	0	2,878.23	68

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P197	200	10.0	PVC	585	2.39	0.37	145.0
CV-L-P198	324	8.0	PVC	181	1.16	0.41	100.0
CV-L-P377	424	8.0	PVC	72	0.46	0.10	100.0
CV-L-P631	270	8.0	PVC	17	0.11	0.00	140.0
CV-L-P149	718	8.0	PVC	176	1.12	0.46	140.0
CV-L-P148	322	8.0	PVC	188	1.20	0.23	140.0
CV-L-P204	110	10.0	PVC	0	0.00	0.00	145.0
CV-L-P205	166	10.0	PVC	0	0.00	0.00	145.0
CV-H-P44	207	8.0	PVC	953	6.08	0.08	150.0
CV-H-P43	293	8.0	PVC	953	6.08	0.08	150.0
CV-L-P201	214	12.0	PVC	0	0.00	0.00	100.0
CV-H-P160	284	8.0	PVC	0	0.00	0.00	145.0
CV-H-P161	299	8.0	PVC	0	0.00	0.00	145.0
CV-L-P151	532	8.0	PVC	7	0.04	0.00	140.0
CV-L-P632	158	8.0	PVC	7	0.04	0.00	140.0
CV-L-P153	130	10.0	PVC	3	0.01	0.00	145.0
P-89	689	8.0	PVC	73	0.47	0.16	100.0
P-94	737	8.0	PVC	73	0.47	0.17	100.0
P-95	740	8.0	PVC	73	0.47	0.17	100.0
P-3	323	8.0	PVC	80	0.51	0.09	100.0
CV-L-P395	219	10.0	PVC	137	0.56	0.05	110.0
CV-L-P203	183	10.0	PVC	404	1.65	0.17	145.0
CV-L-P394	1,417	10.0	PVC	150	0.61	0.23	140.0
CV-L-P679	270	8.0	PVC	166	1.06	0.29	100.0
CV-L-P680	391	8.0	PVC	160	1.02	0.39	100.0
CV-L-P583	459	8.0	PVC	148	0.94	0.40	100.0
CV-L-P70	1,114	8.0	PVC	-146	0.93	0.93	100.0
CV-L-P69	560	8.0	PVC	-138	0.88	0.52	90.0
CV-L-P4	356	18.0	PVC	1,771	2.23	0.29	145.0
CV-L-P5	1,301	18.0	PVC	1,771	2.23	1.53	120.0
P-18	1,431	8.0	Ductile Iron	186	1.19	1.16	130.0
CV-L-P378	289	8.0	PVC	-97	0.62	0.06	145.0
CV-L-P379	364	8.0	PVC	-99	0.63	0.15	100.0
CV-L-P586	702	8.0	PVC	-100	0.64	0.15	145.0
CV-L-P381	801	8.0	PVC	101	0.65	0.34	100.0
CV-L-P633	632	6.0	PVC	4	0.04	0.00	145.0
CV-L-P152	115	10.0	PVC	7	0.03	0.00	145.0
CV-L-P365	216	12.0	PVC	549	1.56	0.21	120.0
CV-H-P1	165	14.0	PVC	1,870	3.90	0.55	140.0
P-87	1,345	14.0	PVC	1,870	3.90	3.93	150.0
P-53	129	14.0	PVC	1,790	3.73	0.35	150.0
P-54	382	14.0	PVC	1,790	3.73	1.03	150.0
CV-L-P202	176	16.0	PVC	0	0.00	0.00	100.0
CV-H-P76	961	14.0	PVC	1,766	3.68	2.69	145.0
CV-H-P77	232	14.0	PVC	1,747	3.64	0.68	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P78	584	14.0	PVC	1,747	3.64	1.96	130.0
CV-L-P292	1,706	12.0	PVC	16	0.05	0.00	140.0
CV-L-P41	465	12.0	PVC	84	0.24	0.02	90.0
CV-L-P8	2,112	12.0	PVC	61	0.17	0.02	145.0
CV-H-P121	118	16.0	PVC	2,316	3.70	0.48	110.0
CV-H-P122	138	16.0	PVC	2,316	3.70	0.56	110.0
CV-H-P117	260	16.0	PVC	2,288	3.65	1.02	110.0
CV-H-P95	836	16.0	PVC	2,270	3.62	3.24	110.0
CV-H-P96	459	16.0	PVC	2,268	3.62	1.22	135.0
CV-H-P97	460	16.0	PVC	2,267	3.62	1.78	110.0
CV-H-P98	460	16.0	PVC	2,267	3.62	1.22	135.0
CV-H-P99	387	16.0	PVC	2,266	3.62	1.50	110.0
CV-H-P45	1,000	16.0	PVC	953	1.52	0.83	120.0
CV-H-P70	1,058	16.0	PVC	952	1.52	0.53	140.0
CV-H-P103(2)	351	16.0	PVC	2,175	3.47	1.26	110.0
CV-L-P613	736	8.0	PVC	11	0.07	0.00	140.0
CV-L-P612	381	8.0	PVC	23	0.15	0.01	140.0
CV-H-P73	673	16.0	PVC	2,035	3.25	1.36	140.0
CV-L-P42	518	12.0	PVC	415	1.18	0.42	100.0
CV-L-P364	798	12.0	PVC	413	1.17	0.46	120.0
CV-L-P402	360	8.0	PVC	42	0.27	0.02	140.0
CV-H-P103(1)(2)	1,045	16.0	PVC	2,021	3.22	3.27	110.0
CV-L-P208	230	12.0	PVC	1,159	3.29	0.67	140.0
CV-H-P74	506	16.0	PVC	1,938	3.09	0.94	140.0
CV-L-P405	357	8.0	PVC	57	0.37	0.03	140.0
CV-L-P43	638	10.0	PVC	-404	1.65	0.85	120.0
P-136	1,197	16.0	PVC	1,870	2.98	2.08	140.0
CV-L-P664	245	8.0	PVC	97	0.62	0.05	140.0
CV-L-P665	246	8.0	PVC	97	0.62	0.05	140.0
CV-L-P404	720	8.0	PVC	82	0.52	0.11	140.0
CV-L-P88	459	8.0	PVC	82	0.52	0.07	140.0
CV-L-P67	714	8.0	PVC	188	1.20	0.52	140.0
CV-L-P147	1,108	8.0	PVC	98	0.63	0.24	140.0
CV-H-P103(1)(1)	2,321	16.0	PVC	1,846	2.95	6.15	110.0
CV-L-P146	360	8.0	PVC	110	0.70	0.10	140.0
CV-L-P128	937	12.0	PVC	596	1.69	0.79	140.0
CV-L-P145	360	8.0	PVC	118	0.75	0.11	140.0
P-46	206	16.0	Ductile Iron	1,574	2.51	0.30	130.0
P-49	9,825	16.0	PVC	-1,574	2.51	12.39	140.0
CV-H-P104	329	16.0	PVC	1,604	2.56	0.49	130.0
CV-L-P210	370	8.0	PVC	2	0.01	0.00	80.0
CV-L-P393	195	8.0	PVC	2	0.01	0.00	80.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-45	658	16.0	Ductile Iron	-1,442	2.30	0.81	130.0
CV-L-P7	3,450	14.0	PVC	1,144	2.38	6.14	120.0
CV-H-P162	805	16.0	PVC	-1,560	2.49	0.94	145.0
CV-L-P358	694	10.0	PVC	-367	1.50	0.91	110.0
CV-L-P6	145	14.0	PVC	1,185	2.47	0.19	145.0
CV-L-P206	153	12.0	PVC	-858	2.43	0.25	140.0
CV-H-P105	350	16.0	PVC	1,334	2.13	0.37	130.0
CV-L-P55	681	12.0	PVC	-807	2.29	1.01	140.0
CV-H-P61	1,231	16.0	PVC	1,319	2.10	1.12	140.0
CV-H-P62	810	16.0	PVC	1,310	2.09	0.83	130.0
CV-L-P127	230	12.0	PVC	434	1.23	0.11	140.0
P-81	1,730	8.0	Ductile Iron	-355	2.27	4.65	130.0
CV-H155	691	8.0	PVC	353	2.25	1.50	145.0
CV-L-P54	660	12.0	PVC	-779	2.21	0.92	140.0
CV-L-P53	660	12.0	PVC	-760	2.16	0.88	140.0
CV-L-P599	303	12.0	PVC	-192	0.54	0.03	145.0
CV-L-P589	910	12.0	PVC	254	0.72	0.15	145.0
CV-L-P209	135	15.0	PVC	1,159	2.10	0.00	140.0
CV-L-P588	1,424	12.0	PVC	266	0.75	0.27	140.0
CV-H-P110	267	16.0	PVC	1,125	1.79	0.28	110.0
CV-H156(2)	428	6.0	PVC	172	1.96	1.00	145.0
CV-L-P45	676	12.0	PVC	674	1.91	0.72	140.0
CV-L-P126	711	12.0	PVC	368	1.04	0.25	140.0
CV-L-P367	874	8.0	PVC	142	0.90	0.37	140.0
CV-L-P634	660	8.0	PVC	-140	0.89	0.26	145.0
CV-L-P366	277	8.0	PVC	-139	0.89	0.11	145.0
CV-L-P130	1,625	12.0	PVC	185	0.53	0.15	145.0
P-91	830	10.0	PVC	403	1.65	1.29	110.0
P-92	1,225	10.0	PVC	403	1.65	1.91	110.0
CV-L-P374	343	10.0	PVC	402	1.64	0.30	150.0
CV-H-P127	230	16.0	PVC	1,047	1.67	0.12	150.0
CV-H-P58	310	16.0	PVC	1,044	1.67	0.17	145.0
CV-H-P65	653	8.0	PVC	264	1.68	0.78	150.0
CV-L-P359	630	10.0	PVC	-335	1.37	0.70	110.0
CV-L-P89	426	8.0	PVC	45	0.29	0.02	140.0
P-13	837	6.0	Ductile Iron	154	1.75	1.95	130.0
P-47	1,031	12.0	PVC	-568	1.61	0.80	140.0
CV-L-P144	410	10.0	PVC	150	0.61	0.07	140.0
CV-L-P143	693	10.0	PVC	150	0.61	0.17	110.0
CV-H-P130	544	8.0	PVC	-251	1.60	0.63	145.0
P-4	176	8.0	PVC	-245	1.57	0.21	140.0
P-42	766	16.0	PVC	-958	1.53	0.36	145.0
CV-H-P66	1,013	8.0	PVC	-236	1.51	0.98	150.0
CV-L-P58	659	8.0	PVC	256	1.63	0.84	140.0
CV-L-P44	1,966	6.0	PVC	-118	1.34	2.43	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P519	1,062	8.0	PVC	196	1.25	0.83	140.0
CV-L-P520	1,215	8.0	PVC	193	1.23	0.92	140.0
CV-L-P698	668	8.0	PVC	247	1.58	0.80	140.0
CV-L-P347	654	8.0	PVC	245	1.57	0.77	140.0
P-44	299	16.0	Ductile Iron	-874	1.40	0.15	130.0
CV-L-P49	713	12.0	PVC	591	1.68	0.60	140.0
CV-L-P50	670	12.0	PVC	568	1.61	0.52	140.0
CV-H156(1)	250	6.0	PVC	131	1.48	0.35	145.0
CV-L-P36	458	12.0	PVC	-9	0.03	0.00	90.0
CV-L-P591	318	8.0	PVC	-163	1.04	0.18	140.0
CV-L-P37	448	12.0	PVC	-21	0.06	0.00	90.0
CV-L-P38	644	12.0	PVC	-34	0.10	0.01	90.0
CV-L-P685	271	8.0	PVC	-175	1.12	0.17	140.0
CV-H-P107	2,671	6.0	PVC	-112	1.27	3.00	140.0
CV-L-P24	445	12.0	PVC	230	0.65	0.06	140.0
CV-L-P25	1,778	12.0	PVC	230	0.65	0.26	140.0
CV-L-P39	697	12.0	PVC	-44	0.12	0.01	90.0
CV-L-P40	1,585	12.0	PVC	-48	0.14	0.03	90.0
CV-L-P23	443	12.0	PVC	242	0.69	0.07	140.0
CV-L-P22	411	12.0	PVC	263	0.74	0.08	140.0
CV-L-P21	448	12.0	PVC	265	0.75	0.08	140.0
CV-H-P55	1,026	8.0	PVC	185	1.18	0.72	140.0
CV-H-P124	406	8.0	PVC	185	1.18	0.28	140.0
CV-L-P12	354	10.0	PVC	277	1.13	0.17	145.0
CV-L-P141	428	10.0	PVC	315	1.29	0.31	130.0
CV-L-P140	716	10.0	PVC	316	1.29	0.46	140.0
CV-L-P348	683	8.0	PVC	204	1.30	0.57	140.0
CV-L-P13	292	10.0	PVC	265	1.08	0.13	145.0
CV-L-P46	664	12.0	PVC	503	1.43	0.41	140.0
CV-L-P344	1,325	8.0	PVC	32	0.21	0.04	140.0
CV-L-P440	808	12.0	PVC	296	0.84	0.19	140.0
CV-L-P47	660	12.0	PVC	494	1.40	0.39	140.0
CV-L-P543	454	12.0	PVC	299	0.85	0.14	120.0
CV-L-P14	639	10.0	PVC	258	1.06	0.26	145.0
CV-L-P670	1,488	10.0	PVC	258	1.05	0.61	145.0
CV-L-P557	501	8.0	PVC	27	0.17	0.01	140.0
CV-L-P48	660	12.0	PVC	483	1.37	0.38	140.0
CV-L-P444	323	10.0	PVC	-251	1.02	0.13	145.0
CV-L-P542	460	12.0	PVC	312	0.88	0.12	140.0
CV-L-P135	361	8.0	PVC	215	1.37	0.33	140.0
CV-L-P345	455	8.0	PVC	20	0.13	0.01	140.0
CV-L-P68	357	8.0	PVC	44	0.28	0.02	140.0
CV-L-P535	524	8.0	PVC	43	0.27	0.02	140.0
CV-L-P110	600	12.0	PVC	-31	0.09	0.00	140.0
CV-L-P668	2,456	12.0	PVC	32	0.09	0.01	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P362	1,263	8.0	PVC	-41	0.26	0.05	140.0
CV-H-P100	776	16.0	PVC	703	1.12	0.34	110.0
CV-H-P101	614	16.0	PVC	703	1.12	0.27	110.0
CV-L-P108	462	8.0	PVC	17	0.11	0.00	140.0
CV-L-P93	758	8.0	PVC	13	0.08	0.00	140.0
CV-H-P102	687	16.0	PVC	692	1.10	0.30	110.0
CV-L-P131	1,923	6.0	PVC	-26	0.29	0.14	145.0
CV-L-P142	286	10.0	PVC	254	1.04	0.14	130.0
P-21	2,264	4.0	PVC	-31	0.80	1.74	140.0
CV-L-P66	1,795	8.0	PVC	39	0.25	0.07	140.0
CV-L-P350	637	8.0	PVC	39	0.25	0.02	140.0
CV-L-P645	985	8.0	PVC	35	0.23	0.03	140.0
CV-L-P360	506	8.0	PVC	-34	0.22	0.01	145.0
CV-L-P442	186	12.0	PVC	-14	0.04	0.00	140.0
CV-L-P669	1,358	12.0	PVC	18	0.05	0.00	140.0
CV-L-P552	390	12.0	PVC	-24	0.07	0.00	140.0
CV-L-P31	300	12.0	PVC	-634	1.80	0.29	140.0
CV-L-P92	462	8.0	PVC	13	0.08	0.00	140.0
CV-L-P51	660	12.0	PVC	523	1.48	0.44	140.0
CV-L-P109	1,605	8.0	PVC	7	0.04	0.00	140.0
CV-L-P677	454	10.0	PVC	-156	0.64	0.07	145.0
CV-L-P90	2,280	8.0	PVC	20	0.13	0.03	140.0
CV-L-P32	310	12.0	PVC	-568	1.61	0.24	140.0
CV-L-P34	1,260	12.0	PVC	-700	1.98	1.44	140.0
CV-L-P33	310	12.0	PVC	-577	1.64	0.25	140.0
CV-L-P427	1,695	8.0	PVC	-18	0.12	0.02	140.0
CV-L-P445	161	8.0	PVC	18	0.12	0.00	140.0
CV-L-P555	419	8.0	PVC	18	0.12	0.00	140.0
CV-L-P346	556	8.0	PVC	-18	0.11	0.01	140.0
CV-L-P654	1,084	12.0	PVC	301	0.85	0.26	140.0
CV-L-P425	482	8.0	PVC	19	0.12	0.00	140.0
CV-L-P214	1,389	8.0	PVC	68	0.43	0.15	140.0
CV-L-P693	641	8.0	PVC	-68	0.43	0.07	140.0
CV-L-P558	538	8.0	PVC	-10	0.07	0.00	140.0
CV-L-P676	429	10.0	PVC	-51	0.21	0.01	145.0
CV-L-P61	203	8.0	PVC	132	0.84	0.08	140.0
CV-L-P62	460	8.0	PVC	132	0.84	0.17	140.0
CV-L-P561	1,548	8.0	PVC	-4	0.03	0.00	140.0
CV-L-P696	1,513	12.0	PVC	266	0.76	0.29	140.0
CV-L-P87	1,399	8.0	PVC	51	0.32	0.09	140.0
CV-L-P564	460	12.0	PVC	-33	0.09	0.00	140.0
P-8	117	8.0	PVC	-41	0.26	0.01	140.0
P-1	1,330	8.0	PVC	117	0.75	0.40	140.0
P-2	1,408	8.0	PVC	117	0.75	0.42	140.0
CV-L-P686	1,378	8.0	PVC	-90	0.58	0.26	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P106	282	8.0	PVC	-90	0.58	0.08	110.0
CV-L-P368	1,011	8.0	PVC	-111	0.71	0.28	140.0
CV-L-P422	308	8.0	PVC	-111	0.71	0.08	140.0
CV-L-P692	606	8.0	PVC	91	0.58	0.11	140.0
CV-H-P125(1)	382	8.0	PVC	95	0.61	0.08	140.0
CV-H-P125(2)	1,044	8.0	PVC	95	0.61	0.21	140.0
CV-H-P126	1,496	8.0	PVC	95	0.61	0.30	140.0
CV-L-P185	1,109	8.0	PVC	96	0.61	0.23	140.0
CV-L-P451	548	8.0	PVC	-62	0.39	0.05	140.0
CV-L-P91	429	8.0	PVC	13	0.08	0.00	140.0
CV-H-P40	323	10.0	PVC	-1,498	6.12	6.84	100.0
P-43	1,433	8.0	PVC	-84	0.54	0.23	140.0
CV-L-P480	169	8.0	PVC	-215	1.37	0.16	140.0
CV-H-P111	157	16.0	PVC	-317	0.51	0.01	120.0
CV-L-P122	142	12.0	PVC	285	0.81	0.03	140.0
CV-L-P121	537	12.0	PVC	286	0.81	0.12	140.0
CV-L-P466	294	12.0	PVC	286	0.81	0.06	140.0
CV-L-P136	290	8.0	PVC	117	0.75	0.09	140.0
P-9	462	8.0	PVC	-73	0.47	0.06	140.0
CV-L-P459	2,159	12.0	PVC	-114	0.32	0.09	140.0
CV-L-P26	472	12.0	PVC	-370	1.05	0.17	140.0
CV-L-P35	2,122	14.0	PVC	-755	1.57	1.31	140.0
CV-H-P2	432	6.0	PVC	68	0.77	0.19	140.0
CV-L-P86	431	8.0	PVC	170	1.08	0.26	140.0
CV-L-P94	847	8.0	PVC	1	0.01	0.00	140.0
P-55	210	8.0	PVC	119	0.76	0.06	145.0
P-58	267	8.0	PVC	119	0.76	0.08	145.0
P-59	356	8.0	PVC	119	0.76	0.10	145.0
CV-L-P132	298	8.0	PVC	-43	0.27	0.01	145.0
CV-L-P343	427	8.0	PVC	-6	0.04	0.00	140.0
CV-H-P72	217	16.0	PVC	332	0.53	0.02	110.0
CV-L-P546	472	8.0	PVC	73	0.47	0.06	140.0
CV-L-P481	205	8.0	PVC	-205	1.31	0.17	140.0
CV-L-P27	375	12.0	PVC	-385	1.09	0.14	140.0
CV-L-P95	429	12.0	PVC	56	0.16	0.00	140.0
CV-L-P418	460	8.0	PVC	87	0.56	0.08	140.0
CV-L-P342	427	12.0	PVC	24	0.07	0.00	140.0
P-16	295	12.0	PVC	175	0.50	0.03	140.0
CV-L-P28	290	12.0	PVC	-398	1.13	0.12	140.0
CV-L-P468	141	8.0	PVC	-212	1.35	0.13	140.0
CV-L-P467	194	12.0	PVC	240	0.68	0.03	140.0
CV-L-P341	847	8.0	PVC	-4	0.03	0.00	140.0
CV-L-P29	290	12.0	PVC	-405	1.15	0.12	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P549	494	8.0	PVC	68	0.44	0.05	140.0
CV-L-P30	290	12.0	PVC	-412	1.17	0.12	140.0
CV-L-P175	183	12.0	PVC	-160	0.45	0.01	140.0
P-17	611	6.0	Ductile Iron	42	0.47	0.13	130.0
P-18	106	6.0	Ductile Iron	42	0.47	0.02	130.0
P-19	417	6.0	Ductile Iron	42	0.47	0.09	130.0
P-20	571	6.0	Ductile Iron	42	0.47	0.12	130.0
CV-L-P60	2,726	8.0	PVC	-62	0.40	0.25	140.0
CV-L-P469	210	8.0	PVC	-215	1.37	0.19	140.0
CV-L-P503	200	8.0	PVC	173	1.10	0.12	140.0
CV-L-P77	1,060	8.0	PVC	133	0.85	0.40	140.0
CV-H-P38	142	10.0	PVC	-1,442	5.89	1.41	145.0
CV-L-P501	203	8.0	PVC	183	1.17	0.14	140.0
CV-L-P502	203	8.0	PVC	177	1.13	0.13	140.0
CV-L-P82	243	8.0	PVC	91	0.58	0.04	145.0
CV-L-P471	141	8.0	PVC	-261	1.67	0.19	140.0
CV-H-P83	460	10.0	PVC	-1,436	5.87	9.00	100.0
CV-L-P504	193	8.0	PVC	155	0.99	0.10	140.0
CV-L-P83	1,152	8.0	PVC	89	0.57	0.20	145.0
CV-L-P470	207	8.0	PVC	-227	1.45	0.21	140.0
CV-L-P96	494	12.0	PVC	28	0.08	0.00	140.0
CV-L-P473	209	8.0	PVC	-338	2.16	0.45	140.0
CV-L-P196	820	12.0	PVC	-115	0.33	0.03	140.0
CV-L-P465	208	12.0	PVC	199	0.57	0.02	140.0
CV-L-P474	212	8.0	PVC	-368	2.35	0.53	140.0
CV-L-P229	404	8.0	PVC	-502	3.21	1.80	140.0
CV-L-P500	150	8.0	PVC	184	1.17	0.10	140.0
CV-L-P472	211	8.0	PVC	-280	1.79	0.32	140.0
CV-L-P416	1,176	8.0	PVC	124	0.79	0.39	140.0
CV-L-P311	156	12.0	PVC	527	1.49	0.20	100.0
CV-L-P312	269	12.0	PVC	527	1.49	0.34	100.0
CV-L-P313	69	12.0	PVC	527	1.49	0.09	100.0
CV-L-P71	509	8.0	PVC	90	0.58	0.09	140.0
CV-H-P82	460	10.0	PVC	-1,423	5.81	10.77	90.0
CV-L-P52	1,320	12.0	PVC	332	0.94	0.38	140.0
CV-L-P499	196	8.0	PVC	155	0.99	0.10	140.0
CV-H-P87	3,122	16.0	PVC	-1,615	2.58	14.91	70.0
CV-H-P85	1,036	16.0	PVC	-1,615	2.58	4.95	70.0
CV-L-P460	1,961	12.0	PVC	-109	0.31	0.07	140.0
P-51	2,715	16.0	PVC	-914	1.46	1.25	140.0
P-134	2,680	16.0	PVC	-914	1.46	1.23	140.0
P-135	597	16.0	PVC	-914	1.46	0.27	140.0
CV-L-P116	257	6.0	PVC	22	0.25	0.01	140.0
CV-L-P84	375	8.0	PVC	75	0.48	0.05	140.0
CV-L-P695	253	8.0	PVC	109	0.70	0.07	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P72	930	8.0	PVC	80	0.51	0.14	140.0
CV-L-P85	202	8.0	PVC	74	0.47	0.03	140.0
CV-L-P172	1,196	8.0	PVC	-50	0.32	0.07	145.0
CV-H-P142	213	6.0	PVC	42	0.48	0.04	140.0
CV-L-P217	589	8.0	PVC	-107	0.68	0.15	140.0
CV-L-P498	203	8.0	PVC	149	0.95	0.09	140.0
CV-L-P101	1,366	12.0	PVC	-76	0.22	0.03	140.0
CV-L-P452	1,113	8.0	PVC	-39	0.25	0.04	140.0
CV-L-P173	1,150	8.0	PVC	-51	0.33	0.07	145.0
CV-L-P462	511	8.0	PVC	-25	0.16	0.01	145.0
CV-H-P81	1,819	10.0	PVC	-1,407	5.75	41.70	90.0
CV-H-P86	70	16.0	PVC	-1,585	2.53	0.25	80.0
CV-L-P218	387	10.0	PVC	114	0.47	0.04	140.0
CV-L-P117	731	6.0	PVC	19	0.21	0.03	140.0
CV-L-P97	426	12.0	PVC	-3	0.01	0.00	140.0
CV-L-P78	460	8.0	PVC	-102	0.65	0.11	140.0
CV-L-P578	925	10.0	PVC	-140	0.57	0.13	140.0
CV-L-P257	160	8.0	PVC	-163	1.04	0.09	140.0
CV-L-P255	233	8.0	PVC	-27	0.17	0.00	140.0
CV-L-P349	891	8.0	PVC	-40	0.26	0.04	140.0
CV-L-P497	196	8.0	PVC	97	0.62	0.04	140.0
CV-L-P521	197	6.0	PVC	35	0.39	0.02	140.0
CV-L-P659	989	8.0	PVC	38	0.24	0.04	140.0
CV-L-P505	163	8.0	PVC	103	0.66	0.04	140.0
P-50	7,933	18.0	PVC	-914	1.15	2.06	140.0
CV-L-P74	1,122	8.0	PVC	81	0.52	0.17	140.0
CV-L-P356	846	8.0	PVC	-37	0.23	0.03	140.0
CV-L-P559	457	12.0	PVC	21	0.06	0.00	140.0
CV-L-P107	460	8.0	PVC	2	0.01	0.00	140.0
CV-L-P98	460	12.0	PVC	-24	0.07	0.00	140.0
P-137 -EST	323	8.0	PVC	62	0.40	0.03	140.0
CV-L-P413	426	8.0	PVC	80	0.51	0.06	140.0
CV-L-P454	432	8.0	PVC	-27	0.17	0.01	140.0
CV-L-P414	260	8.0	PVC	79	0.51	0.04	140.0
CV-L-P607	1,534	8.0	PVC	-28	0.18	0.03	140.0
CV-L-P111	357	8.0	PVC	-53	0.34	0.02	140.0
CV-L-P73	1,089	8.0	PVC	63	0.40	0.10	140.0
CV-L-P587	403	8.0	PVC	-77	0.49	0.06	140.0
CV-L-P113	195	8.0	PVC	36	0.23	0.01	140.0
CV-L-P577	979	10.0	PVC	-122	0.50	0.11	140.0
CV-L-P168	980	8.0	PVC	-74	0.47	0.13	140.0
CV-L-P176	787	8.0	PVC	43	0.27	0.04	140.0
CV-L-P415	1,014	8.0	PVC	-74	0.48	0.13	140.0
CV-L-P115	251	6.0	PVC	17	0.20	0.01	140.0
CV-L-P690	312	8.0	PVC	76	0.48	0.04	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-3	3,986	12.0	PVC	-387	1.10	1.52	140.0
CV-L-P691	845	8.0	PVC	76	0.48	0.11	140.0
CV-L-P450	525	8.0	PVC	76	0.49	0.07	140.0
CV-L-P158	974	8.0	PVC	77	0.49	0.13	140.0
CV-L-P75	580	8.0	PVC	73	0.46	0.07	140.0
CV-L-P674	1,143	10.0	PVC	402	1.64	1.78	110.0
CV-L-P11	125	12.0	PVC	1,080	3.06	0.42	120.0
CV-L-P496	206	8.0	PVC	80	0.51	0.03	140.0
CV-L-P694	307	10.0	PVC	115	0.47	0.03	140.0
CV-H-P41	306	8.0	PVC	-53	0.34	0.02	150.0
CV-L-P99	920	12.0	PVC	-39	0.11	0.00	140.0
CV-H-P112	416	8.0	PVC	52	0.33	0.03	140.0
CV-L-P114	313	8.0	PVC	28	0.18	0.01	140.0
CV-L-P673	1,446	10.0	PVC	408	1.67	2.31	110.0
CV-L-P18	1,033	10.0	PVC	361	1.48	0.84	140.0
CV-L-P244	334	8.0	PVC	118	0.75	0.10	140.0
CV-H-P138	107	6.0	PVC	-27	0.30	0.01	140.0
CV-L-P219	2,204	12.0	PVC	106	0.30	0.08	140.0
CV-L-P76	460	8.0	PVC	65	0.41	0.05	140.0
CV-L-P260	195	8.0	PVC	-3	0.02	0.00	140.0
CV-H-P26	401	6.0	PVC	-26	0.30	0.03	150.0
CV-L-P238	335	8.0	PVC	-76	0.49	0.05	140.0
CV-L-P234	1,284	8.0	PVC	-163	1.04	0.67	145.0
CV-L-P678	837	8.0	PVC	-98	0.63	0.17	145.0
CV-H-P3	79	6.0	PVC	25	0.29	0.01	140.0
CV-L-P443	329	8.0	PVC	-98	0.62	0.07	140.0
CV-L-P20	897	12.0	PVC	300	0.85	0.21	140.0
CV-H-P35	246	6.0	PVC	24	0.27	0.01	150.0
CV-L-P235	304	8.0	PVC	10	0.06	0.00	140.0
P-74	132	6.0	PVC	26	0.29	0.01	140.0
CV-L-P475	749	8.0	PVC	-47	0.30	0.04	140.0
CV-L-P550	269	12.0	PVC	56	0.16	0.00	140.0
CV-L-P247	314	8.0	PVC	109	0.70	0.08	140.0
CV-L-P240	314	8.0	PVC	-83	0.53	0.05	140.0
CV-L-P102	1,443	8.0	PVC	16	0.10	0.01	140.0
CV-L-P493	903	6.0	PVC	46	0.52	0.20	140.0
CV-H-P36	266	6.0	PVC	21	0.24	0.01	150.0
P-6	264	12.0	PVC	50	0.14	0.00	140.0
CV-L-P649	894	12.0	PVC	-277	0.79	0.17	145.0
CV-L-P261	283	8.0	PVC	56	0.36	0.02	140.0
CV-L-P494	944	6.0	PVC	45	0.51	0.19	140.0
CV-L-P57	2,726	6.0	PVC	16	0.18	0.08	140.0
CV-L-P523	278	6.0	PVC	19	0.22	0.01	140.0
CV-H-P25	260	6.0	PVC	-21	0.23	0.01	150.0
CV-L-P423	390	12.0	PVC	-47	0.13	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-30-MV	67	3.0	PVC	-5	0.23	0.01	150.0
CV-L-P506	190	8.0	PVC	53	0.34	0.01	140.0
P-23	733	8.0	PVC	104	0.66	0.18	140.0
CV-L-P314	872	12.0	PVC	408	1.16	0.68	100.0
CV-L-P603	1,541	8.0	PVC	21	0.14	0.02	140.0
CV-L-P16	465	10.0	PVC	291	1.19	0.25	140.0
CV-L-P233	346	12.0	PVC	-406	1.15	0.27	100.0
CV-H-P31	260	6.0	PVC	19	0.22	0.01	150.0
CV-L-P118	148	8.0	PVC	11	0.07	0.00	140.0
CV-L-P288	72	10.0	PVC	-314	1.28	0.05	140.0
CV-L-P476	1,116	8.0	PVC	-40	0.26	0.05	140.0
CV-L-P478	1,760	8.0	PVC	-45	0.29	0.09	140.0
CV-L-P409	300	8.0	PVC	11	0.07	0.00	140.0
CV-L-P457	443	8.0	PVC	23	0.14	0.01	140.0
CV-L-P230	2,673	12.0	PVC	-517	1.47	1.74	140.0
CV-L-P242	314	8.0	PVC	-89	0.57	0.06	140.0
CV-L-P256	302	8.0	PVC	-102	0.65	0.07	140.0
CV-L-P410	290	8.0	PVC	10	0.06	0.00	140.0
CV-L-P699	702	8.0	PVC	12	0.08	0.00	145.0
CV-H-P6	420	8.0	PVC	32	0.20	0.01	140.0
CV-L-P250	314	8.0	PVC	101	0.64	0.07	140.0
CV-L-P534	603	6.0	PVC	-20	0.23	0.03	140.0
P-7	397	8.0	PVC	32	0.21	0.01	140.0
CV-L-P479	1,757	8.0	PVC	-49	0.31	0.11	140.0
CV-L-P507	389	8.0	PVC	43	0.28	0.02	140.0
CV-L-P438	187	8.0	PVC	30	0.19	0.00	140.0
CV-L-P539	794	8.0	PVC	30	0.19	0.02	140.0
CV-L-P339	887	8.0	PVC	5	0.03	0.00	140.0
CV-L-P19	847	12.0	PVC	352	1.00	0.27	140.0
CV-L-P417	520	8.0	PVC	33	0.21	0.01	140.0
CV-L-P283	579	8.0	PVC	55	0.35	0.04	140.0
CV-L-P435	1,250	8.0	PVC	-14	0.09	0.01	140.0
CV-L-P431	430	8.0	PVC	-8	0.05	0.00	140.0
CV-L-P119	292	8.0	PVC	6	0.04	0.00	140.0
CV-L-P262	135	8.0	PVC	32	0.20	0.00	140.0
CV-L-P9	370	8.0	PVC	29	0.18	0.01	140.0
CV-L-P428	1,105	8.0	PVC	5	0.03	0.00	140.0
CV-H-P88	367	8.0	PVC	28	0.18	0.01	145.0
CV-L-P254	320	8.0	PVC	-95	0.61	0.06	140.0
CV-H-P137	145	6.0	PVC	-15	0.17	0.00	140.0
CV-L-P125	371	12.0	PVC	118	0.33	0.02	140.0
CV-L-P477	960	4.0	PVC	-8	0.22	0.07	140.0
CV-L-P648(1)	227	12.0	PVC	239	0.68	0.03	145.0
CV-L-P124	618	12.0	PVC	120	0.34	0.03	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P602	2,188	8.0	PVC	18	0.12	0.02	140.0
CV-L-P688	471	8.0	PVC	-9	0.06	0.00	140.0
CV-L-P137	290	8.0	PVC	25	0.16	0.01	140.0
CV-L-P458	207	8.0	PVC	19	0.12	0.00	140.0
CV-L-P434	977	8.0	PVC	13	0.08	0.00	140.0
CV-L-P123	219	12.0	PVC	125	0.36	0.01	140.0
CV-H-P33	260	6.0	PVC	13	0.15	0.00	150.0
CV-L-P621	164	8.0	PVC	23	0.15	0.00	140.0
CV-H-P80	650	16.0	PVC	-1,384	2.21	1.46	90.0
CV-L-P253	300	8.0	PVC	93	0.59	0.06	140.0
CV-L-P573	770	8.0	PVC	0	0.00	0.00	140.0
CV-L-P226	253	12.0	PVC	52	0.15	0.00	145.0
CV-L-P17	880	10.0	PVC	198	0.81	0.24	140.0
CV-L-P120	367	8.0	PVC	0	0.00	0.00	140.0
CV-H-P79	580	16.0	PVC	-1,379	2.20	1.30	90.0
CV-H-P118	824	8.0	PVC	22	0.14	0.01	145.0
CV-L-P284	395	8.0	PVC	47	0.30	0.02	140.0
CV-L-P491	80	8.0	PVC	45	0.28	0.00	140.0
CV-L-P279	324	8.0	PVC	4	0.03	0.00	140.0
CV-L-P648(2)	256	12.0	PVC	262	0.74	0.04	145.0
CV-L-P103	1,788	8.0	PVC	9	0.06	0.01	140.0
CV-L-P429	913	8.0	PVC	9	0.06	0.00	140.0
CV-L-P689	193	8.0	PVC	-9	0.06	0.00	140.0
CV-H-P24	270	6.0	PVC	-12	0.13	0.00	150.0
CV-L-P222	1,976	12.0	PVC	45	0.13	0.01	140.0
CV-L-P223	933	10.0	PVC	31	0.13	0.01	140.0
CV-L-P224	214	10.0	PVC	31	0.13	0.00	140.0
CV-L-P225	392	10.0	PVC	31	0.13	0.00	140.0
P-31-MV	1,014	3.0	PVC	-3	0.13	0.03	150.0
CV-L-P10	334	8.0	PVC	20	0.12	0.00	140.0
CV-L-P171	1,559	8.0	PVC	-11	0.07	0.01	140.0
CV-L-P259	632	8.0	PVC	-1	0.01	0.00	140.0
CV-L-P133	302	8.0	PVC	19	0.12	0.00	145.0
CV-L-P236	660	8.0	PVC	-88	0.56	0.12	140.0
P-26-L	37	6.0	PVC	11	0.12	0.00	150.0
P-26-MV	42	6.0	PVC	11	0.12	0.00	150.0
CV-L-P490	886	6.0	PVC	123	1.40	1.18	140.0
CV-L-P220	964	12.0	PVC	42	0.12	0.01	120.0
CV-L-P647	259	8.0	PVC	-32	0.20	0.01	145.0
CV-L-P570	505	8.0	PVC	18	0.12	0.00	140.0
CV-H-P143	436	8.0	PVC	18	0.12	0.00	145.0
CV-L-P531	1,265	6.0	PVC	-9	0.11	0.01	140.0
CV-L-P489	1,770	4.0	PVC	25	0.63	0.88	140.0
P-29-MV	984	3.0	PVC	-2	0.11	0.02	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P281	297	8.0	PVC	-34	0.22	0.01	140.0
CV-H-P132	939	6.0	PVC	10	0.11	0.01	140.0
CV-L-P533	247	6.0	PVC	9	0.10	0.00	140.0
CV-L-P620	1,126	8.0	PVC	-17	0.11	0.01	140.0
CV-L-P482	1,769	6.0	PVC	-15	0.17	0.05	140.0
CV-L-P227	1,182	12.0	PVC	37	0.10	0.01	145.0
CV-L-P672(2)	678	12.0	PVC	-37	0.10	0.00	145.0
CV-L-P672(1)	485	12.0	PVC	-37	0.10	0.00	145.0
CV-L-P231	301	10.0	PVC	-358	1.46	0.45	100.0
CV-H-P133	152	6.0	PVC	9	0.10	0.00	140.0
CV-L-P232	660	10.0	PVC	-285	1.17	0.65	100.0
CV-L-P488	1,781	6.0	PVC	51	0.58	0.47	140.0
CV-L-P170	1,408	8.0	PVC	-8	0.05	0.00	140.0
CV-L-P627	419	8.0	PVC	16	0.10	0.00	140.0
CV-L-P105	1,130	8.0	PVC	8	0.05	0.00	140.0
CV-L-P403	228	8.0	PVC	15	0.10	0.00	140.0
CV-H-P108	929	8.0	PVC	15	0.10	0.01	145.0
CV-L-P263	135	8.0	PVC	17	0.11	0.00	140.0
CV-L-P625	960	8.0	PVC	-15	0.09	0.01	140.0
CV-L-P285	454	8.0	PVC	39	0.25	0.02	140.0
CV-L-P280	569	8.0	PVC	4	0.02	0.00	140.0
CV-H-P7	334	8.0	PVC	14	0.09	0.00	140.0
CV-H-P90	460	8.0	PVC	13	0.08	0.00	145.0
CV-L-P104	1,969	8.0	PVC	11	0.07	0.01	140.0
P-11	322	6.0	PVC	7	0.08	0.00	140.0
CV-H-P136	152	6.0	PVC	-7	0.08	0.00	140.0
CV-L-P258	122	8.0	PVC	6	0.04	0.00	140.0
CV-L-P221	927	12.0	PVC	27	0.08	0.00	100.0
CV-L-P461	268	8.0	PVC	12	0.08	0.00	145.0
CV-L-P580	500	8.0	PVC	12	0.08	0.00	140.0
CV-H-P84	923	10.0	PVC	19	0.08	0.01	100.0
CV-L-P178	547	8.0	PVC	12	0.08	0.00	145.0
CV-L-P181	478	10.0	PVC	18	0.08	0.00	140.0
CV-L-P486	1,774	6.0	PVC	29	0.33	0.16	140.0
CV-H-P8	47	8.0	PVC	11	0.07	0.00	140.0
CV-L-P397	441	6.0	PVC	6	0.07	0.00	145.0
CV-L-P687	420	8.0	PVC	-12	0.08	0.00	140.0
CV-L-P282	422	8.0	PVC	-40	0.26	0.02	140.0
CV-L-P532	1,134	6.0	PVC	-6	0.07	0.01	140.0
CV-H157	469	6.0	PVC	6	0.07	0.00	145.0
CV-L-P309	570	8.0	PVC	14	0.09	0.00	145.0
CV-L-P513	1,759	12.0	PVC	24	0.07	0.00	140.0
CV-L-P287	1,262	10.0	PVC	-150	0.61	0.19	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P89	939	8.0	PVC	10	0.07	0.00	145.0
P-100	464	6.0	PVC	6	0.06	0.00	140.0
P-101	436	6.0	PVC	6	0.06	0.00	140.0
CV-L-P522	771	6.0	PVC	-8	0.09	0.01	140.0
CV-H-P22	928	6.0	PVC	5	0.06	0.00	150.0
CV-L- P228(1)	417	10.0	PVC	15	0.06	0.00	145.0
CV-L-P180	601	8.0	PVC	10	0.06	0.00	140.0
CV-H-P109	2,045	8.0	PVC	10	0.06	0.01	145.0
P-20	381	8.0	PVC	10	0.06	0.00	150.0
P-21	193	8.0	Ductile Iron	10	0.06	0.00	130.0
CV-L-P548	217	8.0	PVC	18	0.11	0.00	140.0
CV-H-P139	759	6.0	PVC	5	0.06	0.00	140.0
CV-L-P296	1,166	12.0	PVC	21	0.06	0.00	140.0
CV-L-P398	136	8.0	PVC	9	0.06	0.00	120.0
CV-L-P433	464	8.0	PVC	2	0.01	0.00	140.0
CV-H-P134	127	6.0	PVC	5	0.06	0.00	140.0
CV-L-P484	1,778	6.0	PVC	-2	0.02	0.00	140.0
CV-L-P268	118	8.0	PVC	-5	0.03	0.00	140.0
CV-L-P190	881	8.0	PVC	9	0.06	0.00	140.0
CV-H-P92	715	8.0	PVC	9	0.06	0.00	145.0
CV-H-P54	1,419	8.0	PVC	9	0.06	0.00	150.0
CV-L-P524	973	6.0	PVC	4	0.05	0.00	140.0
CV-L-P464	771	6.0	PVC	5	0.06	0.00	140.0
CV-L-P560	465	12.0	PVC	19	0.05	0.00	140.0
CV-H-P93	1,131	8.0	PVC	8	0.05	0.00	145.0
CV-L-P447	269	12.0	PVC	18	0.05	0.00	140.0
CV-L-P567	436	12.0	PVC	-18	0.05	0.00	140.0
CV-L-P276	386	8.0	PVC	10	0.06	0.00	140.0
CV-L-P186	721	8.0	PVC	8	0.05	0.00	140.0
CV-H-P23	1,037	6.0	PVC	-4	0.05	0.00	150.0
CV-H-P34	659	6.0	PVC	4	0.05	0.00	150.0
CV-L-P139	642	8.0	PVC	8	0.05	0.00	140.0
CV-L-P307	509	8.0	PVC	-45	0.29	0.02	145.0
CV-L-P59	1,385	8.0	PVC	-1	0.00	0.00	140.0
CV-L- P228(2)	639	10.0	PVC	12	0.05	0.00	145.0
CV-L-P527	173	6.0	PVC	-4	0.04	0.00	140.0
CV-L-P184	593	6.0	PVC	4	0.05	0.00	140.0
CV-L-P215	759	6.0	PVC	4	0.05	0.00	140.0
CV-L-P386	380	8.0	PVC	8	0.05	0.00	140.0
CV-L-P361	186	8.0	PVC	7	0.05	0.00	140.0
CV-L-P363	351	8.0	PVC	7	0.05	0.00	140.0
CV-L-P424	393	8.0	PVC	7	0.05	0.00	140.0
CV-L-P371	526	8.0	PVC	7	0.05	0.00	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P372	463	8.0	PVC	7	0.05	0.00	145.0
CV-H-P49	587	8.0	PVC	7	0.05	0.00	150.0
CV-L-P487	1,782	4.0	PVC	13	0.32	0.25	140.0
CV-L-P192	680	8.0	PVC	7	0.04	0.00	140.0
CV-L-P264	135	8.0	PVC	8	0.05	0.00	140.0
CV-L-P191	331	8.0	PVC	7	0.04	0.00	140.0
CV-L-P194	323	8.0	PVC	7	0.04	0.00	140.0
CV-L-P354	317	8.0	PVC	7	0.04	0.00	140.0
CV-H-P53	413	8.0	PVC	7	0.04	0.00	150.0
CV-L-P306	276	12.0	PVC	-60	0.17	0.00	145.0
CV-L-P267	134	8.0	PVC	-4	0.03	0.00	140.0
CV-L-P626	434	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P628	434	8.0	PVC	6	0.04	0.00	140.0
CV-L-P388	462	8.0	PVC	6	0.04	0.00	140.0
CV-L-P389	254	8.0	PVC	6	0.04	0.00	140.0
CV-L-P308	792	8.0	PVC	-38	0.24	0.03	145.0
CV-L-P183	823	6.0	PVC	4	0.04	0.00	140.0
CV-L-P286	493	8.0	PVC	31	0.20	0.01	140.0
CV-L-P213	222	8.0	PVC	6	0.04	0.00	140.0
CV-L-P406	429	8.0	PVC	6	0.04	0.00	140.0
CV-L-P63	655	8.0	PVC	6	0.04	0.00	140.0
CV-L-P351	692	8.0	PVC	6	0.04	0.00	140.0
CV-L-P353	179	8.0	PVC	6	0.04	0.00	140.0
CV-L-P446	199	8.0	PVC	6	0.04	0.00	140.0
CV-L-P448	385	8.0	PVC	6	0.04	0.00	140.0
CV-H-P63	412	8.0	PVC	6	0.04	0.00	150.0
CV-H-P14	45	8.0	PVC	6	0.04	0.00	140.0
CV-H-P119	521	8.0	PVC	6	0.04	0.00	145.0
CV-L-P154	492	8.0	PVC	6	0.04	0.00	140.0
CV-L-P207	584	8.0	PVC	6	0.04	0.00	140.0
CV-L-P322	651	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P536	363	8.0	PVC	6	0.04	0.00	140.0
CV-L-P537	1,173	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P538	302	8.0	PVC	6	0.04	0.00	140.0
CV-L-P541	652	8.0	PVC	6	0.04	0.00	140.0
CV-L-P544	234	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P553	684	8.0	PVC	6	0.04	0.00	140.0
CV-L-P554	1,400	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P556	628	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P563	635	8.0	PVC	6	0.04	0.00	140.0
CV-L-P565	452	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P568	1,339	8.0	PVC	6	0.04	0.00	140.0
CV-L-P571	326	8.0	PVC	6	0.04	0.00	140.0
CV-L-P572	380	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P575	260	8.0	PVC	-6	0.04	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P576	450	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P579	664	8.0	PVC	6	0.04	0.00	140.0
CV-L-P581	497	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P584	178	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P590	770	8.0	PVC	6	0.04	0.00	145.0
CV-L-P593	498	8.0	PVC	6	0.04	0.00	140.0
CV-L-P597	145	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P600	187	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P601	228	8.0	PVC	6	0.04	0.00	145.0
CV-L-P604	1,199	8.0	PVC	6	0.04	0.00	140.0
CV-L-P605	332	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P606	110	8.0	PVC	6	0.04	0.00	145.0
CV-L-P611	199	8.0	PVC	6	0.04	0.00	145.0
CV-L-P614	365	8.0	PVC	6	0.04	0.00	140.0
CV-L-P615	233	8.0	PVC	6	0.04	0.00	140.0
CV-L-P616	384	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P617	124	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P618	168	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P624	125	8.0	PVC	6	0.04	0.00	140.0
CV-H-P129	453	8.0	PVC	-6	0.04	0.00	145.0
CV-H-P144	225	8.0	PVC	6	0.04	0.00	145.0
CV-H-P145	367	8.0	PVC	6	0.04	0.00	145.0
CV-H-P147	1,463	8.0	PVC	6	0.04	0.00	145.0
CV-H-P148	416	8.0	PVC	-6	0.04	0.00	145.0
CV-H-P152	187	8.0	PVC	-6	0.04	0.00	145.0
CV-H-P153	144	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P636	663	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P637	506	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P638	761	8.0	PVC	6	0.04	0.00	140.0
CV-L-P639	1,200	8.0	PVC	6	0.04	0.00	145.0
CV-L-P640	221	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P641	233	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P642	111	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P643	329	8.0	PVC	6	0.04	0.00	140.0
CV-L-P644	121	8.0	PVC	6	0.04	0.00	140.0
CV-L-P646	127	8.0	PVC	-6	0.04	0.00	140.0
CV-H-186	627	8.0	PVC	6	0.04	0.00	145.0
CV-H-187	197	8.0	PVC	-6	0.04	0.00	145.0
CV-H-188	147	8.0	PVC	-6	0.04	0.00	140.0
P-5	449	8.0	Ductile Iron	6	0.04	0.00	130.0
CV-H158	110	8.0	PVC	6	0.04	0.00	145.0
CV-L-P514	480	12.0	PVC	14	0.04	0.00	140.0
CV-L-P529	182	6.0	PVC	2	0.02	0.00	140.0
P-24	990	12.0	PVC	-23	0.07	0.00	140.0
CV-L-P697	840	12.0	PVC	13	0.04	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P164	1,003	8.0	PVC	6	0.04	0.00	140.0
CV-L-P385	527	8.0	PVC	-6	0.04	0.00	145.0
CV-L-P629	142	12.0	PVC	12	0.03	0.00	140.0
CV-L-P383	552	8.0	PVC	5	0.03	0.00	145.0
CV-L-P515	124	10.0	PVC	8	0.03	0.00	140.0
CV-L-P430	745	8.0	PVC	3	0.02	0.00	140.0
CV-H-P10	38	8.0	PVC	5	0.03	0.00	140.0
CV-H-P11	99	8.0	PVC	5	0.03	0.00	140.0
CV-H-P9	84	8.0	PVC	5	0.03	0.00	140.0
CV-L-P161	1,029	8.0	PVC	5	0.03	0.00	140.0
CV-L-P657	825	8.0	PVC	-3	0.02	0.00	140.0
CV-L-P483	1,765	4.0	PVC	1	0.03	0.00	140.0
CV-L-P274	258	8.0	PVC	6	0.04	0.00	140.0
P-25-MV	4,263	12.0	PVC	11	0.03	0.00	150.0
CV-L-P297	58	12.0	PVC	56	0.16	0.00	145.0
CV-L-P622	787	8.0	PVC	5	0.03	0.00	140.0
CV-L-P299	120	12.0	PVC	55	0.16	0.00	145.0
CV-L-P174	1,260	8.0	PVC	4	0.03	0.00	140.0
CV-L-P302	191	10.0	PVC	52	0.21	0.00	140.0
CV-H-P64	232	12.0	PVC	9	0.03	0.00	150.0
CV-L-P608	238	10.0	PVC	-6	0.02	0.00	140.0
CV-L-P421(2)	654	10.0	PVC	6	0.02	0.00	145.0
CV-H-P140	742	6.0	PVC	2	0.03	0.00	140.0
CV-L-P463	416	6.0	PVC	2	0.02	0.00	140.0
CV-L-P304	1,315	10.0	PVC	-51	0.21	0.03	140.0
CV-L-P305	333	10.0	PVC	-51	0.21	0.01	140.0
CV-L-P290	144	8.0	PVC	8	0.05	0.00	140.0
CV-L-P485	1,766	4.0	PVC	6	0.14	0.05	140.0
CV-L-P300	111	12.0	PVC	54	0.15	0.00	145.0
CV-L-P623	142	8.0	PVC	-4	0.02	0.00	140.0
CV-L-P162	1,040	8.0	PVC	4	0.02	0.00	140.0
CV-L-P169	999	8.0	PVC	4	0.02	0.00	140.0
CV-L-P340	402	8.0	PVC	-4	0.02	0.00	140.0
CV-L-P355	516	8.0	PVC	5	0.03	0.00	140.0
CV-L-P530	272	6.0	PVC	3	0.03	0.00	140.0
CV-L-P683	409	8.0	PVC	12	0.07	0.00	140.0
CV-L-P278	484	8.0	PVC	18	0.12	0.00	140.0
CV-L-P271	239	8.0	PVC	4	0.03	0.00	140.0
P-10	1,032	12.0	PVC	7	0.02	0.00	140.0
CV-L-P396	271	8.0	PVC	3	0.02	0.00	145.0
CV-L-P399	199	8.0	PVC	3	0.02	0.00	140.0
CV-L-P401	431	8.0	PVC	3	0.02	0.00	140.0
CV-L-P441	189	8.0	PVC	3	0.02	0.00	140.0
CV-H-P50	501	16.0	PVC	12	0.02	0.00	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-10	1,836	8.0	PVC	-3	0.02	0.00	140.0
P-9	1,056	8.0	PVC	-3	0.02	0.00	140.0
CV-L-P511	266	4.0	PVC	1	0.02	0.00	145.0
P-14	206	4.0	PVC	1	0.02	0.00	140.0
P-17	134	4.0	PVC	-1	0.02	0.00	140.0
CV-L-P166	1,273	8.0	PVC	3	0.02	0.00	140.0
CV-H-P12	56	8.0	PVC	3	0.02	0.00	140.0
CV-H-P28	400	6.0	PVC	2	0.02	0.00	150.0
CV-L-P79	597	8.0	PVC	3	0.02	0.00	140.0
CV-L-P187	547	8.0	PVC	3	0.02	0.00	140.0
CV-L-P239	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P241	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P243	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P245	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P246	222	8.0	PVC	3	0.02	0.00	140.0
CV-L-P248	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P249	222	8.0	PVC	3	0.02	0.00	140.0
CV-L-P251	258	8.0	PVC	3	0.02	0.00	140.0
CV-L-P252	222	8.0	PVC	3	0.02	0.00	140.0
CV-L-P449	170	12.0	PVC	6	0.02	0.00	140.0
CV-L-P551	266	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P566	225	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P596	127	12.0	PVC	6	0.02	0.00	140.0
CV-L-P610	368	12.0	PVC	6	0.02	0.00	140.0
CV-H-P131	182	12.0	PVC	-6	0.02	0.00	145.0
CV-L-P635	479	12.0	PVC	-6	0.02	0.00	145.0
CV-H159	1,646	12.0	PVC	-6	0.02	0.00	145.0
CV-L-P598	906	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P609	139	12.0	PVC	-6	0.02	0.00	140.0
CV-L-P547	291	8.0	PVC	6	0.04	0.00	140.0
CV-H-P37	129	6.0	PVC	1	0.02	0.00	150.0
CV-L-P277	402	8.0	PVC	4	0.02	0.00	140.0
CV-L-P64	1,330	8.0	PVC	2	0.01	0.00	140.0
CV-L-P157	1,187	8.0	PVC	2	0.01	0.00	140.0
CV-L-P163	1,007	8.0	PVC	2	0.01	0.00	140.0
CV-L-P165	1,040	8.0	PVC	2	0.01	0.00	140.0
CV-L-P216	775	8.0	PVC	2	0.01	0.00	140.0
CV-L-P432	591	8.0	PVC	2	0.01	0.00	140.0
CV-H-P51	481	8.0	PVC	2	0.01	0.00	150.0
CV-H-P91	1,019	8.0	PVC	2	0.01	0.00	145.0
CV-L-P265	166	8.0	PVC	3	0.02	0.00	140.0
CV-L-P421(1)	147	10.0	PVC	3	0.01	0.00	145.0
CV-L-P266	287	8.0	PVC	-1	0.01	0.00	140.0
CV-L-P177	859	14.0	PVC	5	0.01	0.00	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P525	1,308	6.0	PVC	-1	0.01	0.00	140.0
CV-H-P146	687	16.0	PVC	-6	0.01	0.00	145.0
CV-L-P156	702	8.0	PVC	-2	0.01	0.00	140.0
CV-L-P289	237	8.0	PVC	10	0.06	0.00	140.0
CV-L-P456	204	8.0	PVC	1	0.01	0.00	140.0
CV-L-P237	349	8.0	PVC	1	0.01	0.00	140.0
CV-L-P370	511	8.0	PVC	1	0.01	0.00	100.0
CV-L-P412	476	8.0	PVC	1	0.01	0.00	140.0
CV-L-P455	586	8.0	PVC	1	0.01	0.00	140.0
CV-L-P517	717	8.0	PVC	1	0.01	0.00	140.0
CV-L-P275	135	8.0	PVC	2	0.01	0.00	140.0
CV-L-P112	273	8.0	PVC	64	0.41	0.03	140.0
CV-L-P56	1,678	12.0	PVC	3	0.01	0.00	140.0
CV-L-P155	759	8.0	PVC	-1	0.01	0.00	100.0
CV-L-P528	272	6.0	PVC	-1	0.01	0.00	140.0
CV-L-P269	174	8.0	PVC	-8	0.05	0.00	140.0
CV-L-P392	451	10.0	PVC	2	0.01	0.00	145.0
CV-L-P273	140	8.0	PVC	1	0.00	0.00	140.0
P-28-MV	87	3.0	PVC	0	0.01	0.00	150.0
CV-L-P301	136	10.0	PVC	2	0.01	0.00	140.0
CV-L-P160	1,478	8.0	PVC	0	0.00	0.00	140.0
CV-H-P30	775	6.0	PVC	1	0.01	0.00	150.0
CV-L-P303	191	12.0	PVC	2	0.01	0.00	145.0
CV-H-P141	741	6.0	PVC	1	0.01	0.00	140.0
CV-H-P135	982	6.0	PVC	0	0.00	0.00	140.0
CV-L-P193	492	8.0	PVC	1	0.00	0.00	140.0
CV-L-P408	200	8.0	PVC	1	0.00	0.00	140.0
CV-L-P182	845	8.0	PVC	1	0.00	0.00	140.0
CV-L-P369	341	8.0	PVC	1	0.00	0.00	140.0
CV-L-P380	255	8.0	PVC	1	0.00	0.00	145.0
CV-L-P419	623	8.0	PVC	1	0.00	0.00	140.0
CV-L-P420	1,011	8.0	PVC	1	0.00	0.00	140.0
CV-L-P453	141	8.0	PVC	1	0.00	0.00	140.0
CV-H-P47	549	8.0	PVC	1	0.00	0.00	150.0
CV-H-P52	205	8.0	PVC	1	0.00	0.00	150.0
CV-L-P411	143	8.0	PVC	1	0.00	0.00	140.0
CV-L-P272	265	8.0	PVC	1	0.01	0.00	140.0
CV-L-P384	583	8.0	PVC	1	0.00	0.00	145.0
CV-L-P407	434	8.0	PVC	1	0.00	0.00	145.0
CV-L-P167	1,011	8.0	PVC	1	0.00	0.00	140.0
CV-L-P188	812	8.0	PVC	1	0.00	0.00	145.0
CV-L-P375	312	8.0	PVC	1	0.00	0.00	145.0
CV-L-P526	550	6.0	PVC	0	0.00	0.00	140.0
CV-L-P298	226	12.0	PVC	1	0.00	0.00	145.0
CV-H-P29	514	6.0	PVC	0	0.00	0.00	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-15	32	12.0	PVC	1	0.00	0.00	140.0
CV-L-P357	525	12.0	PVC	1	0.00	0.00	140.0
CV-L-P376	141	8.0	PVC	0	0.00	0.00	145.0
CV-L-P387	375	8.0	PVC	0	0.00	0.00	140.0
CV-L-P270	139	8.0	PVC	-14	0.09	0.00	140.0
CV-H-P69	270	8.0	PVC	0	0.00	0.00	150.0
CV-H-P39	277	12.0	PVC	0	0.00	0.00	150.0
CV-H-P68	436	12.0	PVC	0	0.00	0.00	150.0
CV-H-P32	445	12.0	PVC	0	0.00	0.00	145.0
P-63	277	8.0	Ductile Iron	0	0.00	0.00	130.0
P-5(1)	310	8.0	PVC	0	0.00	0.00	140.0
CV-L-P437	192	8.0	PVC	0	0.00	0.00	140.0
P-61	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-57	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-62	317	8.0	Ductile Iron	0	0.00	0.00	130.0
P-60	784	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-H-P15	142	8.0	PVC	0	0.00	0.00	140.0
CV-L-P508	1,741	10.0	PVC	0	0.00	0.00	140.0
CV-L-P509	483	10.0	PVC	0	0.00	0.00	140.0
CV-H-P27	1,043	12.0	PVC	0	0.00	0.00	140.0
CV-L-P325	587	12.0	PVC	0	0.00	0.00	100.0
P-16	596	12.0	PVC	0	0.00	0.00	140.0
CV-L-P656	845	12.0	PVC	0	0.00	0.00	100.0
CV-L-P323	1,064	12.0	PVC	0	0.00	0.00	100.0
CV-L-P658	190	12.0	PVC	0	0.00	0.00	100.0
CV-L-P661	218	8.0	PVC	0	0.00	0.00	100.0
CV-L-P660	160	8.0	PVC	0	0.00	0.00	100.0
P-70	79	8.0	PVC	0	0.00	0.00	140.0
CV-L-P666	254	8.0	PVC	0	0.00	0.00	140.0
CV-L-P667	333	8.0	PVC	0	0.00	0.00	140.0
P-69	1,385	8.0	PVC	0	0.00	0.00	140.0
P-71	304	8.0	PVC	0	0.00	0.00	140.0
CV-L-P326	78	8.0	PVC	0	0.00	0.00	145.0
CV-L-P436	254	8.0	PVC	0	0.00	0.00	140.0
P-15	320	8.0	PVC	0	0.00	0.00	140.0
CV-H-P5	119	6.0	PVC	0	0.00	0.00	140.0
P-6(1)	330	12.0	PVC	0	0.00	0.00	140.0
CV-H-P17	210	8.0	PVC	0	0.00	0.00	140.0
CV-L-P390	798	8.0	PVC	0	0.00	0.00	140.0
P-67	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-8	427	8.0	PVC	0	0.00	0.00	140.0
P-7(1)	149	8.0	PVC	0	0.00	0.00	140.0
P-5(2)	467	8.0	PVC	0	0.00	0.00	140.0
P-14	808	8.0	PVC	0	0.00	0.00	140.0
P-64	278	8.0	Ductile Iron	0	0.00	0.00	130.0

GBWC-PD 2024 IRP - Calvada Valley System
Action (2027) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-6(2)	483	12.0	PVC	0	0.00	0.00	140.0
CV-L-P391	1,035	8.0	PVC	0	0.00	0.00	140.0
P-68	321	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-H-P19	142	8.0	PVC	0	0.00	0.00	140.0
CV-L-P179	786	8.0	PVC	0	0.00	0.00	145.0
CV-H-P60	1,791	8.0	PVC	0	0.00	0.00	140.0
CV-L-P516	202	4.0	PVC	0	0.00	0.00	140.0
P-7(2)	354	8.0	PVC	0	0.00	0.00	140.0
CV-L-P138	863	8.0	PVC	0	0.00	0.00	140.0
P-66	317	8.0	Ductile Iron	0	0.00	0.00	130.0
P-2	1,006	8.0	PVC	0	0.00	0.00	140.0
CV-L-P159	1,265	8.0	PVC	0	0.00	0.00	140.0
CV-H-P113	1,029	8.0	PVC	0	0.00	0.00	140.0
P-12	1,189	6.0	PVC	0	0.00	0.00	140.0
P-65	784	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-L-P662	323	12.0	PVC	0	0.00	0.00	140.0
CV-L-P663	272	12.0	PVC	0	0.00	0.00	140.0
P-1	1,067	2.0	PVC	0	0.00	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J70	2,687.90	Low	0	2,839.59	66
J-9	2,777.00	High	0	2,861.15	36
J-10	2,761.00	<None>	0	2,860.20	43
J-11	2,790.00	High	0	2,860.22	30
J-12	2,856.00	High	0	2,860.25	2
J-13	2,832.00	High	0	2,860.25	12
J-14	2,812.00	High	0	2,860.46	21
J-15	2,804.00	High	0	2,860.51	24
J-16	2,795.00	High	0	2,860.61	28
J-17	2,787.00	High	0	2,860.87	32
J-18	2,782.00	High	0	2,861.01	34
J-19	2,815.00	High	0	2,860.49	20
J-20	2,827.00	High	0	2,860.25	14
J-21	2,815.00	High	0	2,860.46	20
NON FF	2,700.00	Low	0	2,840.97	61
NOT FF	2,700.00	Low	0	2,840.83	61
NOT FF	2,700.00	Low	0	2,840.22	61
J-53	2,750.00	Low	0	2,844.46	41
J-54	2,730.00	Low	0	2,844.46	50
H-J117	2,895.00	High	6	2,969.92	32
H-J116	2,891.00	High	6	2,969.92	34
H-J115	2,888.00	High	6	2,969.92	35
L-J5	2,736.00	Low	0	2,845.77	47
H-J118	2,870.00	High	6	2,969.92	43
L-J47	2,732.50	Low	3	2,838.12	46
H-J24	2,869.00	High	7	2,961.98	40
L-J48	2,733.50	Low	3	2,839.50	46
L-J334	2,732.50	Low	2	2,838.88	46
L-J201	2,733.00	Low	4	2,839.47	46
L-J46	2,728.00	Low	0	2,837.36	47
H-J119	2,866.00	High	6	2,969.92	45
L-J339	2,726.60	Low	3	2,837.61	48
L-J6	2,728.00	Low	0	2,845.49	51
H-J120	2,864.00	High	6	2,969.92	46
L-J340	2,726.00	Low	1	2,837.70	48
L-J335	2,727.00	Low	1	2,838.88	48
H-J25	2,862.00	High	8	2,961.98	43
H-J114	2,862.00	High	6	2,969.93	47
L-J474	2,730.00	Low	6	2,844.46	50
L-J341	2,723.80	Low	2	2,837.93	49
L-J196	2,727.50	Low	8	2,842.54	50
L-J195	2,728.00	Low	5	2,843.47	50
J-52	2,728.00	Low	0	2,843.47	50
L-J337	2,723.00	Low	2	2,838.20	50
L-J463	2,725.00	Low	3	2,840.24	50

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J333	2,727.00	Low	1	2,844.50	51
L-J326	2,722.00	Low	3	2,838.90	51
L-J45	2,721.00	Low	2	2,838.19	51
L-J73	2,720.00	Low	1	2,838.24	51
L-J472	2,725.00	Low	6	2,844.47	52
L-J473	2,725.00	Low	6	2,844.49	52
L-J59	2,725.00	Low	22	2,844.50	52
L-J206	2,725.00	Low	0	2,844.75	52
L-J71	2,720.00	Low	0	2,838.92	51
L-J72	2,718.40	Low	2	2,838.27	52
J-41	2,730.00	High	0	2,850.42	52
J-42	2,730.00	High	0	2,850.42	52
J-43	2,730.00	High	0	2,850.42	52
L-J58	2,722.40	Low	6	2,843.47	52
L-J49	2,720.60	Low	5	2,841.65	52
H-J26	2,853.00	High	5	2,961.99	47
H-J99	2,853.00	High	3	2,970.12	51
H-J58	2,853.00	High	0	2,976.16	53
L-J44	2,718.50	Low	1	2,838.73	52
L-J57	2,720.70	Low	5	2,842.54	53
H-J4	2,852.00	High	23	2,969.96	51
L-J331	2,719.00	Low	1	2,842.54	53
L-J565	2,720.00	Low	6	2,844.46	54
L-J51	2,717.30	Low	1	2,840.51	53
L-J56	2,715.90	Low	3	2,838.79	53
H-J3	2,850.20	High	0	2,969.96	52
L-J466	2,719.00	Low	6	2,844.46	54
L-J50	2,716.50	Low	5	2,840.93	54
L-J336	2,716.00	Low	1	2,840.51	54
L-J467	2,718.00	Low	6	2,844.46	55
L-J470	2,718.00	Low	6	2,844.46	55
L-J52	2,714.70	Low	3	2,840.10	54
H-J23	2,847.00	High	9	2,961.98	50
L-J55	2,712.80	Low	5	2,838.97	55
L-J468	2,716.00	Low	6	2,844.46	56
H-J48	2,722.00	High	0	2,850.71	56
L-J338	2,712.00	Low	1	2,840.10	55
L-J53	2,711.70	Low	3	2,839.71	55
L-J469	2,714.00	Low	6	2,844.46	56
L-J43	2,712.80	Low	5	2,839.06	55
L-J332	2,712.00	Low	1	2,841.67	56
L-J64	2,712.00	Low	3	2,842.54	56
H-J30	2,844.00	High	5	2,961.98	51
L-J54	2,709.10	Low	0	2,839.18	56
L-J465	2,712.00	Low	6	2,844.47	57

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J464	2,712.00	Low	0	2,844.50	57
H-J29	2,842.00	High	1	2,961.99	52
L-J471	2,707.00	Low	6	2,840.51	58
H-J27	2,839.60	High	3	2,962.01	53
L-J74	2,715.70	Low	6	2,839.49	54
H-J33	2,839.00	High	1	2,962.00	53
L-J476	2,705.00	Low	6	2,840.10	58
L-J342	2,704.00	Low	0	2,839.82	59
L-J324	2,704.25	Low	2	2,841.70	59
H-J98	2,836.50	High	0	2,970.13	58
L-J580	2,705.00	Low	6	2,844.21	60
L-J475	2,703.00	Low	6	2,840.68	60
H-J57	2,836.00	High	3	2,970.42	58
L-J280	2,702.00	Low	20	2,838.94	59
L-J327	2,704.00	Low	0	2,844.20	61
L-J329	2,704.00	Low	0	2,844.20	61
L-J62	2,702.50	Low	7	2,843.39	61
H-J32	2,834.00	High	1	2,962.00	55
L-J477	2,700.00	Low	6	2,839.85	61
L-J69	2,699.40	Low	1	2,839.38	61
L-J42	2,702.60	Low	4	2,839.58	59
L-J68	2,700.00	Low	0	2,840.68	61
L-J63	2,700.60	Low	4	2,842.54	61
H-J62	2,832.50	High	4	2,970.41	60
H-J34	2,831.60	High	3	2,962.03	56
L-J325	2,698.80	Low	1	2,841.72	62
L-J330	2,699.00	Low	1	2,842.54	62
L-J60	2,700.00	Low	4	2,844.21	62
J-1	2,697.00	Low	0	2,840.02	62
L-J65	2,697.00	Low	9	2,841.06	62
H-J97	2,829.70	High	4	2,960.34	57
L-J344	2,706.00	Low	1	2,839.49	58
L-J343	2,695.50	Low	1	2,839.38	62
L-J514	2,699.00	Low	6	2,840.04	61
L-J547	2,698.00	Low	6	2,844.20	63
H-J28	2,829.00	High	1	2,961.99	58
L-J66	2,696.00	Low	0	2,840.95	63
H-J88	2,828.00	High	5	2,970.12	61
L-J61	2,696.50	Low	3	2,844.21	64
J-47	2,700.00	Low	0	2,841.92	61
L-J67	2,694.00	Low	3	2,840.68	63
L-J41	2,696.30	Low	4	2,839.82	62
L-J75	2,716.00	Low	2	2,840.26	54
H-J31	2,825.00	High	1	2,961.98	59
H-J60	2,824.00	High	4	2,970.42	63

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J363	2,700.00	Low	0	2,839.08	60
L-J479	2,691.00	Low	6	2,842.54	66
L-J561	2,689.00	Low	6	2,840.68	66
L-J7	2,690.00	Low	0	2,844.02	67
L-J8	2,690.00	Low	38	2,843.86	67
L-J40	2,692.00	Low	5	2,839.86	64
L-J516	2,718.00	Low	6	2,840.58	53
L-J352	2,720.00	Low	1	2,841.58	53
J-3	2,696.00	High	0	2,850.53	67
H-J96	2,820.00	High	3	2,949.55	56
H-J22	2,820.00	High	7	2,961.98	61
L-J515	2,714.00	Low	6	2,840.58	55
L-J39	2,688.00	Low	4	2,839.89	66
L-J205	2,691.00	Low	1	2,843.31	66
L-J351	2,720.00	Low	1	2,841.27	52
L-J577	2,718.00	Low	6	2,840.91	53
L-J564	2,693.00	Low	6	2,839.07	63
L-J563	2,692.00	Low	6	2,839.07	64
L-J362	2,692.00	Low	0	2,839.08	64
L-J202	2,688.00	Low	0	2,843.50	67
L-J350	2,720.00	Low	3	2,841.15	52
L-J185	2,683.00	Low	0	2,844.02	70
L-J517	2,706.00	Low	6	2,842.36	59
J-2	2,706.00	Low	0	2,842.36	59
L-J17	2,684.80	Low	3	2,839.93	67
L-J345	2,684.00	Low	1	2,839.86	67
L-J559	2,685.00	Low	6	2,838.69	66
L-J510	2,683.00	Low	6	2,839.86	68
L-J347	2,683.50	Low	1	2,840.20	68
L-J349	2,683.50	Low	0	2,840.20	68
H-J95	2,812.00	High	7	2,936.61	54
H-J46	2,687.00	High	0	2,850.42	71
J-2	2,687.00	High	0	2,850.53	71
H-J109	2,687.00	High	6	2,850.57	71
L-J348	2,682.00	Low	0	2,840.20	68
L-J278	2,690.00	Low	15	2,839.08	65
L-J346	2,680.00	Low	1	2,839.89	69
L-J353	2,712.00	Low	1	2,841.27	56
L-J354	2,704.00	Low	1	2,841.88	60
H-J105	2,690.00	High	22	2,855.33	72
L-J562	2,678.00	Low	6	2,839.89	70
H-J4-A	2,799.00	High	0	2,870.34	31
L-J203	2,693.00	Low	0	2,842.58	65
H-J63	2,805.00	High	2	2,960.34	67
H-J111	2,682.00	High	6	2,851.50	73

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J45	2,680.00	High	0	2,850.71	74
L-J361	2,680.00	Low	0	2,839.07	69
L-J360	2,680.00	Low	0	2,839.07	69
H-J64	2,803.00	High	3	2,949.55	63
L-J357	2,674.50	Low	0	2,838.69	71
H-J113	2,680.00	High	6	2,852.07	74
L-J359	2,678.00	Low	0	2,839.07	70
L-J356	2,673.50	Low	4	2,838.69	71
H-J51	2,679.00	High	3	2,852.07	75
L-J183	2,673.20	Low	4	2,838.78	72
L-J15	2,671.70	Low	1	2,838.63	72
L-J14	2,671.80	Low	0	2,838.69	72
L-J184	2,671.30	Low	1	2,838.69	72
H-J83	2,677.00	High	6	2,852.07	76
L-J358	2,675.00	Low	1	2,839.07	71
J-46	2,700.00	Low	0	2,841.92	61
L-J13	2,670.50	Low	40	2,838.78	73
L-J9	2,670.50	Low	3	2,839.10	73
L-J573	2,669.00	Low	6	2,838.89	74
H-J79	2,678.00	High	17	2,853.91	76
H-J556-A	2,790.00	High	6	2,870.34	35
H-J61	2,796.50	High	3	2,970.41	75
L-J16	2,667.90	Low	0	2,838.49	74
L-J12	2,672.00	Low	5	2,839.07	72
L-J560	2,667.00	Low	6	2,838.63	74
L-J569	2,666.00	Low	6	2,838.18	74
H-J104	2,674.00	High	0	2,853.55	78
H-J44	2,794.00	High	3	2,970.41	76
H-J43	2,794.00	High	1	2,970.41	76
L-J11	2,670.00	Low	8	2,839.08	73
H-J82	2,671.00	High	6	2,852.27	78
H-J42	2,792.00	High	1	2,970.41	77
L-J10	2,668.20	Low	15	2,839.08	74
H-J49	2,668.00	High	3	2,851.50	79
H-J126	2,790.00	High	6	2,949.55	69
L-J513	2,661.00	Low	6	2,838.15	77
H-J81	2,668.00	High	29	2,852.52	80
J-23	2,665.00	High	0	2,850.45	80
L-J579	2,660.00	Low	6	2,838.25	77
L-J512	2,660.00	Low	6	2,838.15	77
H-J50	2,666.00	High	0	2,851.50	80
H-J56	2,774.00	High	0	2,860.18	37
L-J575	2,659.00	Low	6	2,838.10	77
J-48	2,700.00	Low	0	2,841.15	61
H-J84	2,664.00	High	0	2,851.08	81

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J408	2,658.50	Low	1	2,838.18	78
H-155	2,787.00	High	6	2,970.41	79
L-J86	2,658.30	Low	4	2,838.12	78
L-J87	2,657.50	Low	1	2,838.08	78
L-J511	2,657.00	Low	6	2,838.15	78
H-J52	2,663.00	High	11	2,851.85	82
H-J65	2,785.00	High	2	2,936.61	66
H-J53	2,662.00	High	9	2,851.42	82
H-J112	2,662.00	High	6	2,851.53	82
L-J212	2,655.00	Low	2	2,838.13	79
L-J85	2,655.00	Low	6	2,838.22	79
L-J18	2,655.00	Low	21	2,838.10	79
H-J89	2,660.00	High	0	2,850.93	83
H-J110	2,659.00	High	6	2,850.27	83
H-J41	2,783.00	High	2	2,886.32	45
H-J130	2,783.00	High	6	2,970.41	81
H-J101	2,768.00	High	0	2,860.18	40
J-24	2,658.00	High	0	2,850.53	83
L-J525	2,654.00	Low	6	2,837.64	79
L-J83	2,652.20	Low	3	2,837.86	80
L-J84	2,652.00	Low	3	2,837.86	80
L-J78	2,651.80	Low	3	2,837.66	80
H-J85	2,657.00	High	9	2,850.94	84
L-J526	2,653.00	Low	6	2,837.64	80
L-J77	2,651.00	Low	12	2,837.72	81
L-J204	2,703.00	Low	1	2,841.15	60
L-J412	2,652.00	Low	0	2,837.64	80
L-J76	2,650.20	Low	6	2,837.79	81
L-J19	2,649.80	Low	2	2,837.85	81
H-J131	2,778.00	High	6	2,936.61	69
L-J190	2,648.80	Low	4	2,837.71	82
L-J524	2,650.00	Low	6	2,837.64	81
L-J413	2,649.50	Low	0	2,837.64	81
L-J383	2,648.00	Low	2	2,837.54	82
L-J407	2,648.00	Low	1	2,837.91	82
L-J88	2,648.00	Low	13	2,837.90	82
H-J47	2,652.00	High	3	2,850.21	86
L-J189	2,647.80	Low	3	2,837.79	82
L-J90	2,647.80	Low	1	2,837.83	82
L-J166	2,649.00	Low	0	2,836.29	81
L-J411	2,648.50	Low	6	2,837.64	82
L-J38	2,648.50	Low	29	2,837.64	82
L-J382	2,647.00	Low	1	2,837.59	82
L-J89	2,647.00	Low	1	2,837.85	83
L-J20	2,646.50	Low	7	2,837.56	83

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J211	2,646.00	Low	2	2,837.45	83
H-J90	2,650.00	High	35	2,850.13	87
L-J384	2,645.00	Low	3	2,837.47	83
H-J55	2,759.00	High	0	2,860.18	44
H-J86	2,650.00	High	20	2,850.97	87
L-J527	2,651.00	Low	6	2,833.65	79
L-J79	2,644.20	Low	6	2,837.45	84
L-J208	2,643.00	Low	6	2,836.60	84
L-J21	2,643.00	Low	3	2,836.60	84
L-J188	2,643.00	Low	1	2,837.85	84
H-J124	2,771.00	High	6	2,886.32	50
L-J388	2,642.00	Low	1	2,836.19	84
L-J389	2,642.00	Low	1	2,836.19	84
L-J80	2,642.10	Low	3	2,837.36	84
L-J179	2,642.00	Low	4	2,837.36	85
L-J137	2,648.00	Low	18	2,833.68	80
L-J367	2,683.00	Low	3	2,831.86	64
H-J40	2,770.00	High	3	2,886.32	50
H-134	2,758.00	High	6	2,861.58	45
L-J542	2,655.00	Low	6	2,832.65	77
L-J157	2,684.00	Low	6	2,831.82	64
L-J366	2,682.00	Low	9	2,831.86	65
L-J81	2,640.20	Low	6	2,837.30	85
J-25	2,644.00	High	0	2,849.98	89
L-J213	2,683.00	Low	8	2,831.79	64
L-J368	2,656.00	Low	6	2,832.65	76
L-J541	2,661.00	Low	6	2,832.45	74
H-J108	2,767.00	High	6	2,883.89	51
H-J54	2,753.00	High	0	2,860.18	46
L-J165	2,640.00	Low	0	2,836.29	85
L-J414	2,640.00	Low	0	2,836.23	85
H-J94	2,767.00	High	10	2,886.32	52
L-J22	2,638.10	Low	2	2,836.28	86
L-J37	2,639.00	Low	39	2,836.40	85
L-J555	2,686.00	Low	6	2,831.82	63
H-J59	2,766.00	High	3	2,970.11	88
L-J176	2,638.50	Low	3	2,836.40	86
L-J154	2,653.50	Low	3	2,832.65	78
L-J372	2,650.00	Low	3	2,832.66	79
L-J145	2,636.20	Low	6	2,836.19	87
L-J369	2,658.00	Low	3	2,832.45	75
J-17	2,753.00	High	0	2,861.91	47
L-J82	2,635.80	Low	5	2,836.76	87
L-J406	2,635.70	Low	3	2,836.03	87
L-J23	2,635.70	Low	3	2,836.04	87

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J210	2,635.00	Low	4	2,836.76	87
L-J174	2,636.40	Low	0	2,836.19	86
L-J155	2,656.50	Low	0	2,832.45	76
L-J543	2,649.00	Low	6	2,832.65	79
L-J36	2,636.00	Low	7	2,836.19	87
L-J167	2,636.00	Low	0	2,836.19	87
H-J73	2,756.00	High	5	2,870.34	49
L-J370	2,656.00	Low	3	2,832.45	76
H-135	2,751.00	High	6	2,861.91	48
L-J158	2,684.00	Low	0	2,831.82	64
J-26	2,628.00	Low	0	2,843.89	93
H-J72	2,755.00	High	0	2,870.66	50
L-J486	2,633.00	Low	6	2,835.93	88
L-J173	2,634.30	Low	3	2,835.98	87
L-J156	2,666.00	Low	24	2,832.06	72
L-J481	2,633.00	Low	6	2,835.50	88
L-J91	2,631.80	Low	1	2,836.19	88
H-136	2,749.00	High	6	2,861.91	49
L-J455	2,637.30	Low	0	2,833.17	85
L-J404	2,632.00	Low	0	2,835.81	88
L-J405	2,632.00	Low	3	2,835.81	88
L-J35	2,633.00	Low	5	2,835.98	88
L-J487	2,631.00	Low	6	2,836.11	89
L-J488	2,631.00	Low	6	2,836.11	89
J-3	2,631.00	Low	0	2,836.19	89
H-154	2,760.00	High	6	2,970.11	91
H-J125	2,759.00	High	6	2,884.28	54
L-J365	2,684.00	Low	5	2,831.82	64
L-J175	2,632.50	Low	1	2,836.09	88
L-J529	2,636.00	Low	6	2,833.80	86
L-J172	2,632.20	Low	2	2,835.74	88
L-J139	2,635.80	Low	7	2,833.80	86
L-J489	2,630.00	Low	6	2,836.11	89
L-J385	2,630.00	Low	3	2,836.22	89
L-J143	2,632.00	Low	23	2,835.37	88
L-J485	2,630.00	Low	6	2,835.93	89
L-J142	2,631.70	Low	1	2,835.38	88
L-J141	2,631.50	Low	2	2,835.45	88
L-J544	2,642.00	Low	6	2,832.67	82
L-J374	2,642.00	Low	9	2,832.67	82
L-J144	2,631.50	Low	0	2,835.37	88
L-J496	2,628.00	Low	6	2,835.71	90
L-J34	2,631.20	Low	4	2,835.74	88
L-J491	2,629.00	Low	6	2,836.04	90
L-J490	2,629.00	Low	6	2,836.04	90

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Preferred (2044) MDD Condition Distribution System Junction Report
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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J492	2,629.00	Low	6	2,836.04	90
L-J493	2,629.00	Low	6	2,836.03	90
L-J386	2,629.00	Low	1	2,836.20	90
L-J171	2,630.80	Low	5	2,835.63	89
L-J371	2,642.00	Low	14	2,832.66	82
L-J33	2,630.20	Low	2	2,835.63	89
H-J13	2,742.00	High	3	2,859.62	51
L-J387	2,628.00	Low	1	2,836.12	90
H-J38	2,756.00	High	2	2,884.28	56
L-J207	2,682.00	Low	0	2,831.82	65
L-J373	2,640.00	Low	0	2,832.67	83
L-J136	2,633.00	Low	6	2,833.81	87
H-J12	2,741.00	High	2	2,859.62	51
H-J20	2,741.00	High	0	2,859.62	51
L-J403	2,628.00	Low	0	2,835.64	90
L-J24	2,628.00	Low	1	2,835.65	90
L-J390	2,627.00	Low	0	2,836.03	90
L-J187	2,628.00	Low	6	2,835.51	90
L-J480	2,628.00	Low	6	2,835.50	90
J-8	2,755.00	High	0	2,884.29	56
H-J107	2,755.00	High	6	2,883.89	56
L-J376	2,638.00	Low	6	2,832.70	84
L-J528	2,632.00	Low	6	2,833.80	87
H-J93	2,755.00	High	5	2,884.54	56
L-J391	2,626.00	Low	3	2,836.03	91
L-J170	2,628.00	Low	2	2,835.53	90
L-J169	2,628.00	Low	3	2,835.43	90
L-J32	2,627.80	Low	4	2,835.53	90
H-J18	2,739.00	High	0	2,859.62	52
L-J375	2,636.00	Low	17	2,832.70	85
L-J223	2,668.00	Low	8	2,831.72	71
H-J37	2,750.00	High	1	2,877.66	55
H-156	2,738.00	High	6	2,859.62	53
L-J484	2,625.00	Low	6	2,835.62	91
J-13	2,667.82	Low	0	2,831.72	71
L-J31	2,626.00	Low	9	2,835.43	91
L-J168	2,626.00	Low	5	2,835.31	91
H-J80	2,733.00	High	0	2,856.04	53
L-J111	2,618.50	Low	5	2,835.13	94
L-J478	2,667.00	Low	6	2,831.72	71
L-J27	2,624.50	Low	2	2,835.44	91
H-J15	2,737.00	High	0	2,859.62	53
H-J11	2,736.90	High	0	2,859.62	53
L-J25	2,624.00	Low	2	2,835.57	92
L-J402	2,624.00	Low	0	2,835.57	92

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J409	2,620.00	Low	0	2,835.38	93
L-J26	2,624.00	Low	2	2,835.51	92
L-J401	2,624.00	Low	0	2,835.51	92
L-J94	2,620.00	Low	6	2,835.38	93
H-J10	2,736.60	High	0	2,859.62	53
L-J138	2,628.50	Low	11	2,833.80	89
L-J28	2,624.00	Low	0	2,835.39	91
L-J191	2,624.80	Low	5	2,835.25	91
L-J410	2,621.00	Low	0	2,835.72	93
L-J92	2,621.00	Low	1	2,835.72	93
J-23	2,740.10	High	0	2,862.87	53
L-J426	2,628.00	Low	5	2,833.79	89
L-J30	2,624.20	Low	9	2,835.31	91
L-J483	2,623.00	Low	6	2,835.63	92
J-22	2,740.00	High	0	2,862.98	53
J-21	2,740.00	High	0	2,863.06	53
L-J395	2,619.00	Low	0	2,835.36	94
L-J519	2,627.00	Low	6	2,833.94	90
L-J571	2,617.00	Low	6	2,835.13	94
L-J522	2,624.00	Low	6	2,835.01	91
L-J392	2,620.00	Low	1	2,835.72	93
L-J214	2,665.00	Low	12	2,831.72	72
J-15	2,664.97	Low	0	2,831.72	72
H-J16	2,735.00	High	0	2,859.62	54
L-J507	2,622.00	Low	6	2,835.62	92
L-J578	2,623.00	Low	6	2,835.16	92
L-J93	2,618.00	Low	4	2,835.47	94
H-J9	2,734.20	High	0	2,859.62	54
L-J454	2,626.00	Low	0	2,833.17	90
H-J121	2,748.00	High	6	2,881.41	58
H-J8	2,733.90	High	3	2,859.62	54
L-J159	2,676.00	Low	0	2,831.82	67
J-20	2,738.00	High	0	2,863.08	54
L-J398	2,615.00	Low	1	2,835.13	95
L-J186	2,621.00	Low	3	2,835.44	93
L-J160	2,676.00	Low	2	2,831.82	67
L-J29	2,621.50	Low	144	2,835.16	92
L-J495	2,618.00	Low	6	2,835.71	94
L-J221	2,663.00	Low	0	2,831.72	73
L-J506	2,620.00	Low	6	2,835.62	93
L-J482	2,620.00	Low	6	2,835.62	93
H-J87	2,738.00	High	2	2,862.27	54
L-J521	2,621.00	Low	6	2,835.01	93
L-J520	2,623.00	Low	6	2,833.94	91
H-133	2,735.00	High	6	2,863.20	55

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Preferred (2044) MDD Condition Distribution System Junction Report
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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J509	2,612.00	Low	6	2,835.13	97
L-J133	2,619.20	Low	2	2,834.95	93
J-14	2,660.00	Low	0	2,831.72	74
L-J134	2,618.90	Low	1	2,834.86	93
L-J508	2,611.00	Low	6	2,835.13	97
L-J557	2,617.00	Low	6	2,835.44	95
H-J7	2,729.00	High	17	2,859.62	57
L-J177	2,610.00	Low	3	2,835.14	97
L-J135	2,619.00	Low	13	2,834.17	93
L-J400	2,610.00	Low	3	2,835.13	97
L-J109	2,610.00	Low	7	2,835.13	97
L-J397	2,610.00	Low	0	2,835.13	97
L-J364	2,672.00	Low	2	2,831.82	69
L-J194	2,619.00	Low	0	2,833.78	93
H-J123	2,742.00	High	6	2,881.41	60
H-J74	2,736.00	High	5	2,869.99	58
H-J39	2,742.00	High	1	2,884.28	62
H-J71	2,736.00	High	2	2,871.06	58
H-J122	2,741.00	High	6	2,881.41	61
L-J494	2,610.00	Low	6	2,835.28	97
L-J417	2,608.00	Low	1	2,835.15	98
L-J415	2,608.00	Low	3	2,835.15	98
L-J416	2,608.00	Low	1	2,835.15	98
L-J321	2,609.90	Low	5	2,835.33	98
L-J396	2,608.00	Low	5	2,835.13	98
L-J323	2,609.40	Low	1	2,835.28	98
L-J105	2,607.80	Low	8	2,835.13	98
L-J110	2,607.80	Low	4	2,835.13	98
L-J209	2,615.00	Low	0	2,835.01	95
L-J162	2,607.00	Low	1	2,835.10	99
L-J322	2,608.70	Low	1	2,835.29	98
L-J377	2,606.80	Low	0	2,835.10	99
L-J108	2,607.00	Low	0	2,835.13	99
L-J161	2,669.00	Low	1	2,831.82	70
H-J70	2,735.00	High	1	2,872.79	60
L-J146	2,616.00	Low	0	2,833.78	94
L-J393	2,608.00	Low	2	2,835.23	98
L-J96	2,608.00	Low	1	2,835.25	98
L-J112	2,607.50	Low	2	2,835.26	99
L-J220	2,616.25	Low	29	2,833.17	94
L-J425	2,605.50	Low	2	2,835.12	99
L-J122	2,605.50	Low	1	2,835.12	99
J-36	2,605.00	Low	0	2,839.83	102
L-J215	2,654.00	Low	13	2,831.72	77
L-J199	2,620.00	Low	1	2,832.79	92

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J69	2,733.90	High	0	2,874.20	61
L-J106	2,612.00	Low	8	2,835.14	97
L-J121	2,604.70	Low	3	2,835.13	100
L-J303	2,604.50	Low	0	2,840.48	102
L-J95	2,606.00	Low	5	2,835.26	99
J-39	2,604.00	Low	0	2,839.83	102
J-40	2,604.00	Low	0	2,839.83	102
L-J219	2,614.80	Low	0	2,833.17	94
L-J120	2,604.00	Low	0	2,835.14	100
L-J119	2,604.00	Low	4	2,835.15	100
H-J68	2,733.40	High	1	2,876.26	62
J-35	2,603.00	Low	0	2,839.83	102
J-37	2,603.00	Low	0	2,839.83	102
L-J163	2,603.00	Low	0	2,835.10	100
L-J104	2,603.00	Low	7	2,835.13	100
L-J502	2,603.00	Low	6	2,835.13	100
L-J123	2,602.50	Low	5	2,835.10	101
L-J558	2,604.00	Low	6	2,835.23	100
L-J147	2,612.00	Low	9	2,833.51	96
L-J148	2,612.00	Low	143	2,833.39	96
J-38	2,602.00	Low	0	2,839.83	103
J-27	2,602.00	Low	0	2,841.93	104
L-J113	2,603.50	Low	5	2,835.23	100
J-28	2,602.00	Low	0	2,842.82	104
L-J193	2,602.00	Low	3	2,835.15	101
L-J399	2,602.00	Low	2	2,835.13	101
L-J498	2,603.00	Low	6	2,835.22	100
H-J76	2,722.00	High	130	2,860.85	60
L-J118	2,601.50	Low	1	2,835.15	101
H-J5	2,720.00	High	0	2,859.33	60
J-16	2,722.57	High	0	2,861.51	60
L-J218	2,612.00	Low	0	2,833.17	96
L-J222	2,650.00	Low	0	2,831.72	79
H-J67	2,732.00	High	1	2,877.66	63
L-J198	2,613.50	Low	1	2,833.00	95
H-J75	2,728.00	High	42	2,869.98	61
J-19	2,724.25	High	0	2,863.35	60
L-J124	2,601.00	Low	0	2,835.10	101
L-J378	2,601.00	Low	1	2,835.10	101
L-J97	2,602.30	Low	5	2,835.23	101
L-J153	2,615.50	Low	14	2,832.79	94
L-J546	2,612.00	Low	6	2,833.09	96
L-J116	2,600.50	Low	6	2,835.16	102
J-33	2,600.00	Low	0	2,839.83	104
L-J318	2,601.30	Low	3	2,835.19	101

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J92	2,734.00	High	15	2,883.52	65
L-J132	2,600.00	Low	1	2,835.18	102
L-J423	2,600.00	Low	0	2,835.17	102
L-J178	2,609.50	Low	1	2,833.45	97
L-J379	2,599.80	Low	0	2,835.10	102
L-J380	2,599.80	Low	1	2,835.10	102
L-J103	2,600.00	Low	9	2,835.13	102
L-J107	2,600.00	Low	5	2,835.13	102
L-J545	2,612.00	Low	6	2,833.00	96
L-J197	2,611.00	Low	1	2,833.09	96
L-J117	2,599.50	Low	1	2,835.17	102
L-J298	2,599.00	Low	110	2,839.83	104
J-34	2,599.00	Low	0	2,839.83	104
J-31	2,599.00	Low	0	2,839.92	104
J-32	2,599.00	Low	0	2,839.92	104
L-J152	2,611.50	Low	4	2,833.00	96
H-J106	2,732.50	High	6	2,882.59	65
L-J418	2,599.00	Low	1	2,835.18	102
L-J501	2,600.00	Low	6	2,835.18	102
L-J304	2,598.60	Low	0	2,840.48	105
L-J305	2,598.40	Low	0	2,840.48	105
L-J125	2,598.50	Low	2	2,835.09	102
L-J428	2,598.50	Low	4	2,835.29	102
L-J427	2,598.50	Low	1	2,835.28	102
L-J319	2,599.60	Low	6	2,835.19	102
L-J151	2,610.00	Low	1	2,833.09	97
H-J66	2,731.00	High	0	2,881.41	65
J-29	2,598.00	Low	0	2,839.98	105
J-30	2,598.00	Low	0	2,839.98	105
L-J98	2,599.30	Low	6	2,835.19	102
H-J77	2,717.00	High	34	2,859.63	62
L-J381	2,598.00	Low	1	2,835.09	103
L-J192	2,598.00	Low	7	2,835.16	103
L-J126	2,597.50	Low	4	2,835.09	103
H-J100	2,717.00	High	32	2,860.15	62
H-J6	2,715.90	High	0	2,859.33	62
L-J102	2,597.50	Low	14	2,835.13	103
L-J228	2,597.00	Low	1	2,839.58	105
L-J434	2,597.00	Low	6	2,836.04	103
L-J433	2,597.00	Low	6	2,835.86	103
L-J432	2,597.00	Low	5	2,835.76	103
L-J431	2,597.00	Low	5	2,835.64	103
L-J430	2,597.00	Low	5	2,835.54	103
L-J429	2,597.00	Low	5	2,835.47	103
L-J452	2,597.00	Low	4	2,835.38	103

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MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J127	2,597.00	Low	60	2,835.30	103
L-J227	2,596.81	Low	3	2,839.40	105
L-J128	2,597.00	Low	0	2,835.26	103
L-J419	2,597.00	Low	1	2,835.19	103
L-J499	2,598.00	Low	6	2,835.18	103
L-J130	2,596.90	Low	1	2,835.19	103
L-J566	2,597.00	Low	6	2,835.13	103
L-J150	2,607.50	Low	1	2,833.18	98
L-J224	2,596.50	Low	14	2,837.66	104
L-J225	2,596.45	Low	3	2,838.71	105
L-J131	2,596.50	Low	3	2,835.19	103
L-J129	2,596.30	Low	1	2,835.21	103
L-J295	2,596.00	Low	0	2,840.04	106
L-J294	2,596.00	Low	0	2,840.10	106
J-7	2,645.00	Low	0	2,831.71	81
L-J293	2,596.00	Low	0	2,840.34	106
L-J182	2,596.00	Low	10	2,836.60	104
L-J435	2,596.00	Low	5	2,836.30	104
L-J277	2,595.87	Low	0	2,840.48	106
L-J180	2,596.00	Low	7	2,835.19	103
J-5	2,644.75	Low	0	2,831.71	81
L-J420	2,596.00	Low	1	2,835.17	103
L-J500	2,597.00	Low	6	2,835.18	103
L-J115	2,596.70	Low	1	2,835.18	103
L-J164	2,595.80	Low	2	2,835.09	104
L-J200	2,596.00	Low	1	2,835.13	103
L-J149	2,606.00	Low	0	2,833.24	98
L-J234	2,595.11	Low	3	2,839.00	106
L-J241	2,595.11	Low	3	2,839.32	106
L-J240	2,595.11	Low	3	2,839.32	106
L-J101	2,595.50	Low	12	2,835.14	104
L-J226	2,594.93	Low	4	2,838.98	106
L-J449	2,595.00	Low	1	2,835.30	104
L-J320	2,596.00	Low	5	2,835.18	103
L-J450	2,594.00	Low	30	2,835.90	105
L-J453	2,594.00	Low	0	2,835.89	105
L-J236	2,593.81	Low	3	2,839.03	106
L-J243	2,593.81	Low	3	2,839.26	106
L-J244	2,593.81	Low	3	2,839.26	106
L-J114	2,595.00	Low	4	2,835.18	104
L-J533	2,594.00	Low	6	2,835.17	104
L-J233	2,593.66	Low	3	2,839.00	106
L-J239	2,593.66	Low	3	2,839.32	106
L-J540	2,642.00	Low	6	2,831.70	82
J-10	2,642.00	Low	0	2,831.71	82

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J394	2,594.00	Low	7	2,835.18	104
J-4	2,594.00	Low	0	2,835.18	104
L-J532	2,593.00	Low	6	2,835.17	105
L-J534	2,593.00	Low	6	2,835.17	105
L-J503	2,593.00	Low	6	2,835.15	105
L-J504	2,593.00	Low	6	2,835.15	105
L-J238	2,592.41	Low	3	2,839.06	107
L-J246	2,592.41	Low	3	2,839.21	107
L-J247	2,592.41	Low	3	2,839.21	107
L-J235	2,592.36	Low	3	2,839.03	107
L-J242	2,592.36	Low	3	2,839.26	107
L-J550	2,712.00	Low	6	2,860.12	64
L-J549	2,712.00	Low	6	2,860.13	64
L-J216	2,641.00	Low	17	2,831.71	83
L-J99	2,593.20	Low	4	2,835.18	105
L-J100	2,592.30	Low	7	2,835.15	105
L-J181	2,592.00	Low	1	2,835.18	105
L-J443	2,591.60	Low	5	2,835.47	106
H-J91	2,706.00	High	48	2,856.04	65
L-J442	2,591.10	Low	4	2,835.54	106
J-6	2,640.00	Low	0	2,831.71	83
J-8	2,640.00	Low	0	2,831.71	83
J-9	2,640.00	Low	0	2,831.71	83
J-11	2,640.00	Low	0	2,831.71	83
J-12	2,640.00	Low	0	2,831.71	83
L-J237	2,590.96	Low	3	2,839.06	107
L-J245	2,590.96	Low	3	2,839.21	107
L-J232	2,590.88	Low	1	2,839.17	107
L-J444	2,591.00	Low	3	2,835.41	106
L-J422	2,591.00	Low	7	2,835.17	106
L-J445	2,590.80	Low	2	2,835.36	106
L-J446	2,590.80	Low	5	2,835.34	106
L-J447	2,590.80	Low	1	2,835.33	106
L-J448	2,590.80	Low	3	2,835.32	106
L-J505	2,591.00	Low	6	2,835.15	106
L-J231	2,590.18	Low	3	2,839.17	108
L-J229	2,590.00	Low	4	2,839.09	108
L-J438	2,590.00	Low	0	2,835.76	106
L-J439	2,590.00	Low	6	2,835.71	106
L-J440	2,590.00	Low	0	2,835.66	106
L-J441	2,590.00	Low	6	2,835.61	106
L-J230	2,589.88	Low	3	2,839.09	108
H-J36	2,728.00	High	0	2,884.95	68
L-J421	2,590.00	Low	1	2,835.18	106
L-J424	2,590.00	Low	2	2,835.17	106

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J436	2,589.20	Low	0	2,835.80	107
L-J437	2,589.20	Low	7	2,835.78	107
L-J255	2,588.70	Low	7	2,839.09	108
J-5	2,590.00	Low	0	2,835.18	106
L-J254	2,588.49	Low	5	2,839.09	108
L-J256	2,588.40	Low	6	2,839.09	108
L-J274	2,588.17	Low	2	2,839.09	109
L-J248	2,588.00	Low	3	2,839.09	109
L-J265	2,587.95	Low	2	2,839.09	109
L-J269	2,587.75	Low	9	2,839.09	109
L-J530	2,588.00	Low	6	2,835.17	107
L-J253	2,587.64	Low	7	2,839.09	109
L-J267	2,587.62	Low	3	2,839.09	109
L-J264	2,587.62	Low	6	2,839.09	109
L-J268	2,587.61	Low	5	2,839.09	109
L-J266	2,587.40	Low	3	2,839.09	109
L-J270	2,587.40	Low	6	2,839.10	109
L-J263	2,587.39	Low	5	2,839.09	109
L-J259	2,587.14	Low	3	2,839.09	109
L-J262	2,587.12	Low	3	2,839.09	109
L-J567	2,587.00	Low	6	2,839.42	109
L-J260	2,586.85	Low	4	2,839.09	109
L-J258	2,586.85	Low	5	2,839.09	109
L-J251	2,586.71	Low	0	2,839.21	109
L-J273	2,586.60	Low	0	2,839.24	109
L-J257	2,586.58	Low	5	2,839.09	109
L-J249	2,586.56	Low	6	2,839.11	109
L-J261	2,586.54	Low	3	2,839.09	109
L-J272	2,586.54	Low	7	2,839.10	109
J-25	2,586.35	High	0	2,839.27	109
L-J568	2,586.00	Low	6	2,839.30	110
L-J250	2,585.96	Low	6	2,839.15	110
L-J217	2,635.00	Low	14	2,831.70	85
L-J252	2,585.73	Low	7	2,839.11	110
L-J271	2,585.70	Low	8	2,839.12	110
H-J2	2,721.00	High	1	2,884.07	71
L-J291	2,584.50	Low	0	2,839.29	110
L-J292	2,584.00	Low	48	2,839.29	110
L-J290	2,583.00	Low	0	2,839.28	111
L-J287	2,582.50	Low	1	2,839.27	111
L-J289	2,582.41	Low	0	2,839.26	111
H-J78	2,697.00	High	26	2,856.06	69
L-J281	2,582.00	Low	2	2,839.27	111
L-J282	2,582.00	Low	0	2,839.27	111
L-J283	2,581.90	Low	1	2,839.27	111

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD Condition Distribution System Junction Report
MDD - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J284	2,581.70	Low	1	2,839.27	111
L-J288	2,581.70	Low	2	2,839.27	111
L-J285	2,581.40	Low	0	2,839.27	112
L-J548	2,701.00	Low	29	2,860.12	69
L-J551	2,701.00	Low	6	2,860.12	69
L-J552	2,701.00	Low	6	2,860.12	69
L-J553	2,701.00	Low	6	2,860.12	69
L-J286	2,581.20	Low	1	2,839.27	112
J-28	2,579.20	MVE	2	2,717.90	60
J-29	2,579.20	MVE	2	2,717.90	60
J-30	2,579.20	MVE	2	2,717.92	60
J-27	2,579.20	MVE	2	2,717.93	60
J-26	2,579.20	Low	0	2,835.79	111
L-J461	2,618.00	Low	0	2,831.70	92
L-J536	2,618.00	Low	6	2,831.70	92
L-J554	2,617.00	Low	6	2,831.69	93
J-6	2,617.00	Low	0	2,831.69	93
L-J539	2,616.00	Low	6	2,831.69	93
L-J460	2,616.00	Low	1	2,831.70	93
J-45	2,684.00	High	0	2,858.20	75
L-J462	2,615.00	Low	1	2,831.70	94
L-J459	2,613.70	Low	2	2,831.70	94
L-J275	2,611.60	Low	1	2,831.69	95
J-7	2,611.00	Low	0	2,831.69	95
L-J457	2,610.00	Low	1	2,831.69	96
J-1	2,610.00	Low	0	2,831.69	96
L-J456	2,609.10	Low	0	2,831.69	96
L-J276	2,608.90	Low	0	2,831.69	96
J-18	2,722.00	High	0	2,860.85	60

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-29	MVE	0	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-28	MVE	0	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J457	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J474	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J117	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J195	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J116	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J115	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J118	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J119	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-52	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J120	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J456	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J114	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J472	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J196	Low	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J24	High	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J565	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J48	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J201	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J47	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J334	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J467	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J335	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J46	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J466	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J470	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-43	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J340	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J475	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J326	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J473	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J339	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J463	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J337	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J468	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J341	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J4	High	1,000	23	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J71	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J333	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J23	High	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J469	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-42	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J73	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J25	High	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-41	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J59	Low	1,000	22	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J206	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J331	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J58	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J45	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J329	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J343	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J3	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J72	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J476	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J57	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J49	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J465	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J69	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J48	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J327	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J336	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J547	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J68	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J64	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J471	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J338	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J51	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J332	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J50	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J30	High	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J44	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J56	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J52	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J464	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J55	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J344	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J53	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J342	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J26	High	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J324	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J5	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J54	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J477	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-1	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J580	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J330	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J74	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J29	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J62	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J43	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J479	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J61	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J280	Low	1,000	20	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J60	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J99	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J363	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J63	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J33	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J67	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J325	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J66	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J65	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J6	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J561	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J75	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J516	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J515	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-134	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J461	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J88	High	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J58	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J22	High	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J514	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J32	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J577	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J42	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J27	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J31	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J4-A	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J28	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J563	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J62	High	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J352	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J559	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J351	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J564	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J350	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-5	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J125	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J56	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J41	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J517	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J556-A	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J362	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J353	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J510	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J189	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J98	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J57	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J34	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J97	High	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J101	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-30	MVE	0	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J40	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J80	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J345	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-47	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-2	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J60	High	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J361	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J359	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J354	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J96	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J44	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J360	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J190	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J39	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J349	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J346	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J95	High	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-46	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J63	High	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J562	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J55	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-154	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J210	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J185	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J13	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-155	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-48	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J64	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J12	High	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J348	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-6	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J59	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-135	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J358	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J43	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J20	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J17	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J46	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J7	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J8	Low	1,000	38	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-156	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J347	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J54	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J203	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J278	Low	1,000	15	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J205	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-136	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J111	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J41	High	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J61	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J108	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J11	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J18	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J10	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J126	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J42	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J109	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J15	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J357	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J65	High	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J202	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J513	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J204	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J356	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J130	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J9	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J12	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J426	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J368	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J8	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J367	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J131	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J184	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J45	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J16	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J365	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J569	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J213	Low	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J377	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J38	High	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J157	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J555	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-55	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J279	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J478	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J366	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J207	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J389	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J11	Low	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J158	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J573	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J179	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J166	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J512	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J223	Low	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J183	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J15	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J113	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J162	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J14	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J39	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J73	High	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J7	High	1,000	17	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-8	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J560	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J211	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J51	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J105	High	1,000	22	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J84	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J72	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J16	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J13	Low	1,000	40	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J124	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J9	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J388	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J83	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J40	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J579	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J107	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J10	Low	1,000	15	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-59	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J425	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J214	Low	1,000	12	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J541	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J542	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J50	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J94	High	1,000	10	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J221	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J87	High	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J5	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J37	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J159	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J212	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J79	High	1,000	17	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J160	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J372	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J525	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J511	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J85	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J87	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J156	Low	1,000	24	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J188	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J575	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J82	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J408	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-23	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J49	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J86	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J83	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J364	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J77	Low	1,000	12	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J104	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J455	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-133	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J383	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J91	High	1,000	48	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J78	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J121	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J369	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J53	High	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J112	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J52	High	1,000	11	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J412	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J84	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J382	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J18	Low	1,000	21	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J81	High	1,000	29	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J370	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J76	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J384	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J484	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J79	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J481	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J544	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-39	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J215	Low	1,000	13	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J110	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J161	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J496	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J155	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J173	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J88	Low	1,000	13	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J526	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J89	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J176	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J122	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J144	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J495	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J80	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-24	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J76	High	1,000	130	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J407	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J543	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J506	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J19	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J93	High	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J376	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J145	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J374	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J174	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J89	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J154	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J222	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J77	High	1,000	34	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J90	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J550	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J6	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J527	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J85	High	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J74	High	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J549	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J524	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J100	High	1,000	32	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-37	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J81	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J208	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J71	High	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J413	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J540	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J123	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J20	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J482	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J86	High	1,000	20	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J507	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J47	High	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J172	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J137	Low	1,000	18	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J411	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J38	Low	1,000	29	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-40	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J371	Low	1,000	14	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J373	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J90	High	1,000	35	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J171	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
H-J70	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J21	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J82	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J454	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J163	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J548	Low	1,000	29	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J111	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J165	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J169	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J414	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J170	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J69	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J375	Low	1,000	17	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J177	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J529	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J78	High	1,000	26	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J216	Low	1,000	17	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J553	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J75	High	1,000	42	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-36	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J508	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J571	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J168	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-33	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J217	Low	1,000	14	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J483	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-25	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J552	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J22	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J551	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J68	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-38	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J139	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J143	Low	1,000	23	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J494	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J528	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J398	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J395	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J509	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J502	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J167	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J164	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J122	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J406	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J37	Low	1,000	39	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J23	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J409	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J462	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J91	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J394	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J396	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J109	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J558	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J405	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J488	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J67	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J487	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J480	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J399	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J175	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J94	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J545	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-3	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J392	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J199	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J557	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J397	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J485	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J532	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J385	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J386	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-35	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-26	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J486	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J36	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J142	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J108	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J489	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J193	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-31	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J492	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J404	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J400	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J520	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J410	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J121	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J378	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J490	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J491	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J110	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J387	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J505	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J403	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J141	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J123	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J192	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J493	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J136	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J416	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J417	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J35	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J194	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J187	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-34	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J93	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J186	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J381	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J92	High	1,000	15	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J198	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J106	High	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J66	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J138	Low	1,000	11	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J390	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J92	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J124	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J120	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J415	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J34	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J391	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J323	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J536	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J501	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J521	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J380	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J220	Low	1,000	29	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J24	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J33	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J401	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J105	Low	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J321	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J191	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-29	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J393	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J418	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J107	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J402	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J318	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J554	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J119	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J539	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J379	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J322	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J32	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J460	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J519	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J219	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J298	Low	1,000	110	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J498	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J112	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J25	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J27	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J546	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J96	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J26	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J31	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J522	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J578	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J566	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J28	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J125	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J423	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J104	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J459	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J95	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J118	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J116	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J453	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J153	Low	1,000	14	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J30	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J303	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J533	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J450	Low	1,000	30	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J36	High	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J275	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-45	High	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J197	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-7	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J218	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J113	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J420	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J200	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J276	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J126	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J103	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J97	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J29	Low	1,000	144	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J132	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J319	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J419	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J117	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-32	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J449	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J534	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J98	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J152	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J428	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J427	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J133	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J209	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J102	Low	1,000	14	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J135	Low	1,000	13	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J134	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J429	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J431	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J430	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
H-J2	High	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J452	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J432	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J433	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J500	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-27	MVE	0	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J499	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J127	Low	1,000	60	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J146	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J128	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J434	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J130	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J131	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J178	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-4	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J151	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J129	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J181	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J180	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J240	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J243	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J234	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J101	Low	1,000	12	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J530	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J421	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J241	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J448	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J435	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J244	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J115	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J236	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J246	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-30	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J148	Low	1,000	143	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J232	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J182	Low	1,000	10	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J247	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J320	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J147	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J436	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J305	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J503	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J504	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J447	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J238	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J424	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J224	Low	1,000	14	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J114	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J304	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J106	Low	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J443	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J437	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J150	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-26	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J438	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J442	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J446	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-27	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J444	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J439	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J100	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

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Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J445	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J99	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J440	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J441	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J422	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J225	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J228	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J227	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-28	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J149	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J239	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J242	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J233	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J226	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J235	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J245	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J295	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J294	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J293	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J231	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J277	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J237	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J255	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J268	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J267	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J274	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J272	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J254	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J252	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J266	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J261	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J265	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J253	Low	1,000	7	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J260	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J259	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J262	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J256	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J271	Low	1,000	8	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
L-J269	Low	1,000	9	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J263	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J264	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J230	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J270	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J229	Low	1,000	4	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J258	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J248	Low	1,000	3	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J257	Low	1,000	5	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J249	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J250	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J567	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J251	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J273	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J568	Low	1,000	6	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J292	Low	1,000	48	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J291	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J289	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J287	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J290	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J283	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J286	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J288	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J282	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J281	Low	1,000	2	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J284	Low	1,000	1	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
L-J285	Low	1,000	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-60	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
J-58	Low	0	0	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J70	2,687.90	Low	(N/A)	(N/A)	(N/A)
J-9	2,777.00	High	(N/A)	(N/A)	(N/A)
J-10	2,761.00	<None>	(N/A)	(N/A)	(N/A)
J-11	2,790.00	High	(N/A)	(N/A)	(N/A)
J-12	2,856.00	High	(N/A)	(N/A)	(N/A)
J-13	2,832.00	High	(N/A)	(N/A)	(N/A)
J-14	2,812.00	High	(N/A)	(N/A)	(N/A)
J-15	2,804.00	High	(N/A)	(N/A)	(N/A)
J-16	2,795.00	High	(N/A)	(N/A)	(N/A)
J-17	2,787.00	High	(N/A)	(N/A)	(N/A)
J-18	2,782.00	High	(N/A)	(N/A)	(N/A)
J-19	2,815.00	High	(N/A)	(N/A)	(N/A)
J-20	2,827.00	High	(N/A)	(N/A)	(N/A)
J-21	2,815.00	High	(N/A)	(N/A)	(N/A)
NON FF	2,700.00	Low	(N/A)	(N/A)	(N/A)
NOT FF	2,700.00	Low	(N/A)	(N/A)	(N/A)
NOT FF	2,700.00	Low	(N/A)	(N/A)	(N/A)
J-53	2,750.00	Low	(N/A)	(N/A)	(N/A)
J-54	2,730.00	Low	(N/A)	(N/A)	(N/A)
H-J117	2,895.00	High	6	2,973.49	34
H-J116	2,891.00	High	6	2,973.49	36
H-J115	2,888.00	High	6	2,973.50	37
L-J5	2,736.00	Low	0	2,843.79	47
H-J118	2,870.00	High	6	2,973.49	45
L-J47	2,732.50	Low	3	2,838.35	46
H-J24	2,869.00	High	7	2,966.92	42
L-J48	2,733.50	Low	3	2,840.02	46
L-J334	2,732.50	Low	2	2,839.28	46
L-J201	2,733.00	Low	4	2,839.99	46
L-J46	2,728.00	Low	0	2,837.49	47
H-J119	2,866.00	High	6	2,973.50	47
L-J339	2,726.60	Low	3	2,837.70	48
L-J6	2,728.00	Low	0	2,843.52	50
H-J120	2,864.00	High	6	2,973.50	47
L-J340	2,726.00	Low	1	2,837.81	48
L-J335	2,727.00	Low	1	2,839.29	49
H-J25	2,862.00	High	8	2,966.92	45
H-J114	2,862.00	High	6	2,973.51	48
L-J474	2,730.00	Low	6	2,845.28	50
L-J341	2,723.80	Low	2	2,838.07	49
L-J196	2,727.50	Low	8	2,843.37	50
L-J195	2,728.00	Low	5	2,844.29	50
J-52	2,728.00	Low	0	2,844.30	50
L-J337	2,723.00	Low	2	2,838.41	50
L-J463	2,725.00	Low	3	2,840.92	50

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J333	2,727.00	Low	1	2,845.32	51
L-J326	2,722.00	Low	3	2,839.32	51
L-J45	2,721.00	Low	2	2,838.15	51
L-J73	2,720.00	Low	1	2,838.43	51
L-J472	2,725.00	Low	6	2,845.28	52
L-J473	2,725.00	Low	6	2,845.31	52
L-J59	2,725.00	Low	23	2,845.32	52
L-J206	2,725.00	Low	0	2,845.57	52
L-J71	2,720.00	Low	0	2,839.35	52
L-J72	2,718.40	Low	2	2,838.45	52
J-41	2,730.00	High	0	2,859.26	56
J-42	2,730.00	High	0	2,859.26	56
J-43	2,730.00	High	0	2,859.26	56
L-J58	2,722.40	Low	6	2,844.30	53
L-J49	2,720.60	Low	5	2,842.48	53
H-J26	2,853.00	High	5	2,966.93	49
H-J99	2,853.00	High	3	2,973.71	52
H-J58	2,853.00	High	0	2,978.82	54
L-J44	2,718.50	Low	1	2,838.56	52
L-J57	2,720.70	Low	6	2,843.37	53
H-J4	2,852.00	High	24	2,973.54	53
L-J331	2,719.00	Low	1	2,843.37	54
L-J565	2,720.00	Low	6	2,845.28	54
L-J51	2,717.30	Low	1	2,841.34	54
L-J56	2,715.90	Low	3	2,838.96	53
H-J3	2,850.20	High	0	2,973.54	53
L-J466	2,719.00	Low	6	2,845.28	55
L-J50	2,716.50	Low	5	2,841.76	54
L-J336	2,716.00	Low	1	2,841.34	54
L-J467	2,718.00	Low	6	2,845.28	55
L-J470	2,718.00	Low	6	2,845.28	55
L-J52	2,714.70	Low	3	2,840.94	55
H-J23	2,847.00	High	9	2,966.91	52
L-J55	2,712.80	Low	5	2,839.41	55
L-J468	2,716.00	Low	6	2,845.28	56
H-J48	2,722.00	High	0	2,859.85	60
L-J338	2,712.00	Low	1	2,840.94	56
L-J53	2,711.70	Low	3	2,840.55	56
L-J469	2,714.00	Low	6	2,845.28	57
L-J43	2,712.80	Low	5	2,838.58	54
L-J332	2,712.00	Low	1	2,842.51	56
L-J64	2,712.00	Low	3	2,843.37	57
H-J30	2,844.00	High	5	2,966.92	53
L-J54	2,709.10	Low	0	2,839.95	57
L-J465	2,712.00	Low	6	2,845.29	58

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J464	2,712.00	Low	0	2,845.31	58
H-J29	2,842.00	High	1	2,966.93	54
L-J471	2,707.00	Low	6	2,841.34	58
H-J27	2,839.60	High	3	2,966.95	55
L-J74	2,715.70	Low	6	2,839.04	53
H-J33	2,839.00	High	1	2,966.94	55
L-J476	2,705.00	Low	6	2,840.94	59
L-J342	2,704.00	Low	0	2,840.84	59
L-J324	2,704.25	Low	2	2,842.55	60
H-J98	2,836.50	High	0	2,973.72	59
L-J580	2,705.00	Low	6	2,845.02	61
L-J475	2,703.00	Low	6	2,841.76	60
H-J57	2,836.00	High	3	2,973.96	60
L-J280	2,702.00	Low	20	2,839.94	60
L-J327	2,704.00	Low	0	2,845.02	61
L-J329	2,704.00	Low	0	2,845.02	61
L-J62	2,702.50	Low	7	2,844.22	61
H-J32	2,834.00	High	1	2,966.94	58
L-J477	2,700.00	Low	6	2,840.92	61
L-J69	2,699.40	Low	1	2,839.95	61
L-J42	2,702.60	Low	4	2,838.55	59
L-J68	2,700.00	Low	0	2,841.76	61
L-J63	2,700.60	Low	4	2,843.37	62
H-J62	2,832.50	High	4	2,973.96	61
H-J34	2,831.60	High	3	2,966.97	59
L-J325	2,698.80	Low	1	2,842.59	62
L-J330	2,699.00	Low	1	2,843.37	62
L-J60	2,700.00	Low	4	2,845.02	63
J-1	2,697.00	Low	0	2,841.36	62
L-J65	2,697.00	Low	9	2,842.02	63
H-J97	2,829.70	High	4	2,965.58	59
L-J344	2,706.00	Low	1	2,839.04	58
L-J343	2,695.50	Low	1	2,839.95	62
L-J514	2,699.00	Low	6	2,838.53	60
L-J547	2,698.00	Low	6	2,845.02	64
H-J28	2,829.00	High	1	2,966.93	60
L-J66	2,696.00	Low	0	2,841.94	63
H-J88	2,828.00	High	5	2,973.71	63
L-J61	2,696.50	Low	3	2,845.02	64
J-47	2,700.00	Low	0	2,840.50	61
L-J67	2,694.00	Low	3	2,841.76	64
L-J41	2,696.30	Low	4	2,838.53	62
L-J75	2,716.00	Low	2	2,839.87	54
H-J31	2,825.00	High	1	2,966.92	61
H-J60	2,824.00	High	4	2,973.96	65

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J363	2,700.00	Low	0	2,836.34	59
L-J479	2,691.00	Low	6	2,843.37	66
L-J561	2,689.00	Low	6	2,841.76	66
L-J7	2,690.00	Low	0	2,842.14	66
L-J8	2,690.00	Low	39	2,841.96	66
L-J40	2,692.00	Low	5	2,838.52	63
L-J516	2,718.00	Low	6	2,840.22	53
L-J352	2,720.00	Low	1	2,841.01	52
J-3	2,696.00	High	0	2,859.48	71
H-J96	2,820.00	High	3	2,956.67	59
H-J22	2,820.00	High	7	2,966.92	64
L-J515	2,714.00	Low	6	2,840.22	55
L-J39	2,688.00	Low	4	2,838.52	65
L-J205	2,691.00	Low	1	2,841.65	65
L-J351	2,720.00	Low	1	2,840.87	52
L-J577	2,718.00	Low	6	2,840.56	53
L-J564	2,693.00	Low	6	2,836.34	62
L-J563	2,692.00	Low	6	2,836.34	62
L-J362	2,692.00	Low	0	2,836.34	62
L-J202	2,688.00	Low	0	2,841.81	67
L-J350	2,720.00	Low	3	2,840.82	52
L-J185	2,683.00	Low	0	2,842.14	69
L-J517	2,706.00	Low	6	2,841.36	59
J-2	2,706.00	Low	0	2,841.36	59
L-J17	2,684.80	Low	3	2,838.52	67
L-J345	2,684.00	Low	1	2,838.52	67
L-J559	2,685.00	Low	6	2,835.83	65
L-J510	2,683.00	Low	6	2,838.52	67
L-J347	2,683.50	Low	1	2,838.79	67
L-J349	2,683.50	Low	0	2,838.79	67
H-J95	2,812.00	High	7	2,946.01	58
H-J46	2,687.00	High	0	2,859.26	75
J-2	2,687.00	High	0	2,859.48	75
H-J109	2,687.00	High	6	2,859.56	75
L-J348	2,682.00	Low	0	2,838.79	68
L-J278	2,690.00	Low	16	2,836.35	63
L-J346	2,680.00	Low	1	2,838.52	69
L-J353	2,712.00	Low	1	2,840.87	56
L-J354	2,704.00	Low	1	2,841.14	59
H-J105	2,690.00	High	23	2,868.95	77
L-J562	2,678.00	Low	6	2,838.52	69
H-J4-A	2,799.00	High	0	2,890.35	40
L-J203	2,693.00	Low	0	2,841.44	64
H-J63	2,805.00	High	2	2,965.58	69
H-J111	2,682.00	High	6	2,861.45	78

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J45	2,680.00	High	0	2,859.85	78
L-J361	2,680.00	Low	0	2,836.34	68
L-J360	2,680.00	Low	0	2,836.34	68
H-J64	2,803.00	High	3	2,956.67	66
L-J357	2,674.50	Low	0	2,835.83	70
H-J113	2,680.00	High	6	2,862.60	79
L-J359	2,678.00	Low	0	2,836.34	69
L-J356	2,673.50	Low	5	2,835.83	70
H-J51	2,679.00	High	3	2,862.60	79
L-J183	2,673.20	Low	5	2,835.99	70
L-J15	2,671.70	Low	1	2,835.72	71
L-J14	2,671.80	Low	0	2,835.84	71
L-J184	2,671.30	Low	1	2,835.83	71
H-J83	2,677.00	High	6	2,862.60	80
L-J358	2,675.00	Low	1	2,836.34	70
J-46	2,700.00	Low	0	2,841.22	61
L-J13	2,670.50	Low	41	2,835.99	72
L-J9	2,670.50	Low	3	2,836.37	72
L-J573	2,669.00	Low	6	2,836.39	72
H-J79	2,678.00	High	18	2,866.20	81
H-J556-A	2,790.00	High	6	2,890.35	43
H-J61	2,796.50	High	3	2,973.96	77
L-J16	2,667.90	Low	0	2,835.49	73
L-J12	2,672.00	Low	5	2,836.34	71
L-J560	2,667.00	Low	6	2,835.72	73
L-J569	2,666.00	Low	6	2,834.93	73
H-J104	2,674.00	High	0	2,865.50	83
H-J44	2,794.00	High	3	2,973.95	78
H-J43	2,794.00	High	1	2,973.95	78
L-J11	2,670.00	Low	9	2,836.34	72
H-J82	2,671.00	High	6	2,862.98	83
H-J42	2,792.00	High	1	2,973.96	79
L-J10	2,668.20	Low	16	2,836.35	73
H-J49	2,668.00	High	3	2,861.45	84
H-J126	2,790.00	High	6	2,956.67	72
L-J513	2,661.00	Low	6	2,834.63	75
H-J81	2,668.00	High	30	2,863.49	85
J-23	2,665.00	High	0	2,859.32	84
L-J579	2,660.00	Low	6	2,834.50	76
L-J512	2,660.00	Low	6	2,834.63	76
H-J50	2,666.00	High	0	2,861.45	85
H-J56	2,774.00	High	0	2,877.97	45
L-J575	2,659.00	Low	6	2,834.76	76
J-48	2,700.00	Low	0	2,841.06	61
H-J84	2,664.00	High	0	2,860.59	85

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J408	2,658.50	Low	1	2,834.94	76
H-155	2,787.00	High	6	2,973.95	81
L-J86	2,658.30	Low	4	2,834.82	76
L-J87	2,657.50	Low	1	2,834.78	77
L-J511	2,657.00	Low	6	2,834.63	77
H-J52	2,663.00	High	12	2,862.19	86
H-J65	2,785.00	High	2	2,946.01	70
H-J53	2,662.00	High	9	2,861.33	86
H-J112	2,662.00	High	6	2,861.55	86
L-J212	2,655.00	Low	2	2,834.44	78
L-J85	2,655.00	Low	6	2,834.53	78
L-J18	2,655.00	Low	22	2,834.75	78
H-J89	2,660.00	High	0	2,860.30	87
H-J110	2,659.00	High	6	2,858.95	87
H-J41	2,783.00	High	2	2,904.69	53
H-J130	2,783.00	High	6	2,973.95	83
H-J101	2,768.00	High	0	2,877.97	48
J-24	2,658.00	High	0	2,859.47	87
L-J525	2,654.00	Low	6	2,834.79	78
L-J83	2,652.20	Low	3	2,834.31	79
L-J84	2,652.00	Low	3	2,834.31	79
L-J78	2,651.80	Low	3	2,834.21	79
H-J85	2,657.00	High	9	2,860.32	88
L-J526	2,653.00	Low	6	2,834.79	79
L-J77	2,651.00	Low	12	2,834.30	79
L-J204	2,703.00	Low	1	2,840.91	60
L-J412	2,652.00	Low	0	2,834.79	79
L-J76	2,650.20	Low	6	2,834.43	80
L-J19	2,649.80	Low	2	2,834.52	80
H-J131	2,778.00	High	6	2,946.01	73
L-J190	2,648.80	Low	4	2,834.30	80
L-J524	2,650.00	Low	6	2,834.79	80
L-J413	2,649.50	Low	0	2,834.79	80
L-J383	2,648.00	Low	2	2,834.12	81
L-J407	2,648.00	Low	1	2,834.60	81
L-J88	2,648.00	Low	14	2,834.60	81
H-J47	2,652.00	High	3	2,858.82	89
L-J189	2,647.80	Low	3	2,834.43	81
L-J90	2,647.80	Low	1	2,834.54	81
L-J166	2,649.00	Low	0	2,833.35	80
L-J411	2,648.50	Low	6	2,834.79	81
L-J38	2,648.50	Low	30	2,834.79	81
L-J382	2,647.00	Low	1	2,834.15	81
L-J89	2,647.00	Low	1	2,834.56	81
L-J20	2,646.50	Low	7	2,834.30	81

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Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J211	2,646.00	Low	2	2,834.05	81
H-J90	2,650.00	High	36	2,858.65	90
L-J384	2,645.00	Low	3	2,834.06	82
H-J55	2,759.00	High	0	2,877.97	51
H-J86	2,650.00	High	21	2,860.40	91
L-J527	2,651.00	Low	6	2,830.57	78
L-J79	2,644.20	Low	6	2,834.05	82
L-J208	2,643.00	Low	6	2,833.53	82
L-J21	2,643.00	Low	3	2,833.53	82
L-J188	2,643.00	Low	1	2,834.56	83
H-J124	2,771.00	High	6	2,904.69	58
L-J388	2,642.00	Low	1	2,833.20	83
L-J389	2,642.00	Low	1	2,833.20	83
L-J80	2,642.10	Low	3	2,833.99	83
L-J179	2,642.00	Low	4	2,833.99	83
L-J137	2,648.00	Low	18	2,830.60	79
L-J367	2,683.00	Low	3	2,828.67	63
H-J40	2,770.00	High	3	2,904.69	58
H-134	2,758.00	High	6	2,882.56	54
L-J542	2,655.00	Low	6	2,829.51	76
L-J157	2,684.00	Low	6	2,828.63	63
L-J366	2,682.00	Low	9	2,828.67	63
L-J81	2,640.20	Low	6	2,833.94	84
J-25	2,644.00	High	0	2,858.34	93
L-J213	2,683.00	Low	8	2,828.60	63
L-J368	2,656.00	Low	6	2,829.51	75
L-J541	2,661.00	Low	6	2,829.30	73
H-J108	2,767.00	High	6	2,900.91	58
H-J54	2,753.00	High	0	2,877.97	54
L-J165	2,640.00	Low	0	2,833.35	84
L-J414	2,640.00	Low	0	2,833.29	84
H-J94	2,767.00	High	11	2,904.69	60
L-J22	2,638.10	Low	2	2,833.28	84
L-J37	2,639.00	Low	41	2,833.48	84
L-J555	2,686.00	Low	6	2,828.63	62
H-J59	2,766.00	High	3	2,973.70	90
L-J176	2,638.50	Low	3	2,833.48	84
L-J154	2,653.50	Low	3	2,829.51	76
L-J372	2,650.00	Low	3	2,829.52	78
L-J145	2,636.20	Low	6	2,833.20	85
L-J369	2,658.00	Low	3	2,829.30	74
J-17	2,753.00	High	0	2,882.56	56
L-J82	2,635.80	Low	5	2,833.58	86
L-J406	2,635.70	Low	3	2,833.09	85
L-J23	2,635.70	Low	3	2,833.09	85

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Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J210	2,635.00	Low	4	2,833.57	86
L-J174	2,636.40	Low	0	2,833.25	85
L-J155	2,656.50	Low	0	2,829.30	75
L-J543	2,649.00	Low	6	2,829.51	78
L-J36	2,636.00	Low	8	2,833.25	85
L-J167	2,636.00	Low	0	2,833.25	85
H-J73	2,756.00	High	5	2,890.35	58
L-J370	2,656.00	Low	3	2,829.30	75
H-135	2,751.00	High	6	2,882.56	57
L-J158	2,684.00	Low	0	2,828.63	63
J-26	2,628.00	Low	0	2,845.50	94
H-J72	2,755.00	High	0	2,890.62	59
L-J486	2,633.00	Low	6	2,832.98	87
L-J173	2,634.30	Low	3	2,833.03	86
L-J156	2,666.00	Low	25	2,828.88	70
L-J481	2,633.00	Low	6	2,832.52	86
L-J91	2,631.80	Low	1	2,833.20	87
H-136	2,749.00	High	6	2,882.56	58
L-J455	2,637.30	Low	0	2,830.06	83
L-J404	2,632.00	Low	0	2,832.85	87
L-J405	2,632.00	Low	3	2,832.85	87
L-J35	2,633.00	Low	5	2,833.03	87
L-J487	2,631.00	Low	6	2,833.14	87
L-J488	2,631.00	Low	6	2,833.14	87
J-3	2,631.00	Low	0	2,833.20	87
H-154	2,760.00	High	6	2,973.70	92
H-J125	2,759.00	High	6	2,900.91	61
L-J365	2,684.00	Low	5	2,828.63	63
L-J175	2,632.50	Low	1	2,833.15	87
L-J529	2,636.00	Low	6	2,830.73	84
L-J172	2,632.20	Low	2	2,832.77	87
L-J139	2,635.80	Low	7	2,830.73	84
L-J489	2,630.00	Low	6	2,833.14	88
L-J385	2,630.00	Low	3	2,833.22	88
L-J143	2,632.00	Low	24	2,832.39	87
L-J485	2,630.00	Low	6	2,832.98	88
L-J142	2,631.70	Low	1	2,832.39	87
L-J141	2,631.50	Low	2	2,832.47	87
L-J544	2,642.00	Low	6	2,829.53	81
L-J374	2,642.00	Low	9	2,829.53	81
L-J144	2,631.50	Low	0	2,832.39	87
L-J496	2,628.00	Low	6	2,832.99	89
L-J34	2,631.20	Low	5	2,832.77	87
L-J491	2,629.00	Low	6	2,833.09	88
L-J490	2,629.00	Low	6	2,833.10	88

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Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J492	2,629.00	Low	6	2,833.10	88
L-J493	2,629.00	Low	6	2,833.09	88
L-J386	2,629.00	Low	1	2,833.21	88
L-J171	2,630.80	Low	5	2,832.66	87
L-J371	2,642.00	Low	15	2,829.52	81
L-J33	2,630.20	Low	2	2,832.66	88
H-J13	2,742.00	High	3	2,877.00	58
L-J387	2,628.00	Low	1	2,833.15	89
H-J38	2,756.00	High	2	2,900.91	63
L-J207	2,682.00	Low	0	2,828.63	63
L-J373	2,640.00	Low	0	2,829.53	82
L-J136	2,633.00	Low	6	2,830.73	86
H-J12	2,741.00	High	2	2,877.00	59
H-J20	2,741.00	High	0	2,877.01	59
L-J403	2,628.00	Low	0	2,832.67	89
L-J24	2,628.00	Low	1	2,832.67	89
L-J390	2,627.00	Low	0	2,833.09	89
L-J187	2,628.00	Low	6	2,832.53	88
L-J480	2,628.00	Low	6	2,832.53	88
J-8	2,755.00	High	0	2,900.91	63
H-J107	2,755.00	High	6	2,900.91	63
L-J376	2,638.00	Low	6	2,829.56	83
L-J528	2,632.00	Low	6	2,830.73	86
H-J93	2,755.00	High	5	2,903.24	64
L-J391	2,626.00	Low	3	2,833.09	90
L-J170	2,628.00	Low	2	2,832.55	88
L-J169	2,628.00	Low	3	2,832.44	88
L-J32	2,627.80	Low	4	2,832.55	89
H-J18	2,739.00	High	0	2,877.01	60
L-J375	2,636.00	Low	18	2,829.56	84
L-J223	2,668.00	Low	9	2,828.52	69
H-J37	2,750.00	High	1	2,896.66	63
H-156	2,738.00	High	6	2,877.00	60
L-J484	2,625.00	Low	6	2,832.65	90
J-13	2,667.82	Low	0	2,828.52	70
L-J31	2,626.00	Low	9	2,832.44	89
L-J168	2,626.00	Low	5	2,832.31	89
H-J80	2,733.00	High	0	2,870.33	59
L-J111	2,618.50	Low	5	2,832.88	93
L-J478	2,667.00	Low	6	2,828.52	70
L-J27	2,624.50	Low	2	2,832.46	90
H-J15	2,737.00	High	0	2,877.01	61
H-J11	2,736.90	High	0	2,877.00	61
L-J25	2,624.00	Low	2	2,832.60	90
L-J402	2,624.00	Low	0	2,832.60	90

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Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J409	2,620.00	Low	0	2,832.91	92
L-J26	2,624.00	Low	2	2,832.53	90
L-J401	2,624.00	Low	0	2,832.53	90
L-J94	2,620.00	Low	6	2,832.91	92
H-J10	2,736.60	High	0	2,877.00	61
L-J138	2,628.50	Low	11	2,830.72	87
L-J28	2,624.00	Low	0	2,832.40	90
L-J191	2,624.80	Low	5	2,832.26	90
L-J410	2,621.00	Low	0	2,832.99	92
L-J92	2,621.00	Low	1	2,832.99	92
J-23	2,740.10	High	0	2,883.56	62
L-J426	2,628.00	Low	5	2,830.72	88
L-J30	2,624.20	Low	9	2,832.32	90
L-J483	2,623.00	Low	6	2,832.65	91
J-22	2,740.00	High	0	2,883.67	62
J-21	2,740.00	High	0	2,883.76	62
L-J395	2,619.00	Low	0	2,832.90	93
L-J519	2,627.00	Low	6	2,830.87	88
L-J571	2,617.00	Low	6	2,832.88	93
L-J522	2,624.00	Low	6	2,832.00	90
L-J392	2,620.00	Low	1	2,832.99	92
L-J214	2,665.00	Low	12	2,828.53	71
J-15	2,664.97	Low	0	2,828.52	71
H-J16	2,735.00	High	0	2,877.01	61
L-J507	2,622.00	Low	6	2,832.65	91
L-J578	2,623.00	Low	6	2,832.16	90
L-J93	2,618.00	Low	4	2,832.93	93
H-J9	2,734.20	High	0	2,877.01	62
L-J454	2,626.00	Low	0	2,830.06	88
H-J121	2,748.00	High	6	2,899.90	66
H-J8	2,733.90	High	3	2,877.01	62
L-J159	2,676.00	Low	0	2,828.63	66
J-20	2,738.00	High	0	2,883.78	63
L-J398	2,615.00	Low	1	2,832.88	94
L-J186	2,621.00	Low	3	2,832.46	91
L-J160	2,676.00	Low	2	2,828.63	66
L-J29	2,621.50	Low	148	2,832.16	91
L-J495	2,618.00	Low	6	2,832.99	93
L-J221	2,663.00	Low	0	2,828.53	72
L-J506	2,620.00	Low	6	2,832.65	92
L-J482	2,620.00	Low	6	2,832.65	92
H-J87	2,738.00	High	2	2,885.40	64
L-J521	2,621.00	Low	6	2,832.00	91
L-J520	2,623.00	Low	6	2,830.87	90
H-133	2,735.00	High	6	2,883.90	64

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Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J509	2,612.00	Low	6	2,832.88	96
L-J133	2,619.20	Low	2	2,831.94	92
J-14	2,660.00	Low	0	2,828.52	73
L-J134	2,618.90	Low	1	2,831.84	92
L-J508	2,611.00	Low	6	2,832.88	96
L-J557	2,617.00	Low	6	2,832.46	93
H-J7	2,729.00	High	17	2,877.01	64
L-J177	2,610.00	Low	3	2,832.96	96
L-J135	2,619.00	Low	14	2,831.11	92
L-J400	2,610.00	Low	3	2,832.88	96
L-J109	2,610.00	Low	7	2,832.88	96
L-J397	2,610.00	Low	0	2,832.88	96
L-J364	2,672.00	Low	2	2,828.63	68
L-J194	2,619.00	Low	0	2,830.70	92
H-J123	2,742.00	High	6	2,899.90	68
H-J74	2,736.00	High	5	2,890.05	67
H-J39	2,742.00	High	1	2,900.91	69
H-J71	2,736.00	High	2	2,890.96	67
H-J122	2,741.00	High	6	2,899.90	69
L-J494	2,610.00	Low	6	2,832.89	96
L-J417	2,608.00	Low	1	2,832.94	97
L-J415	2,608.00	Low	3	2,832.94	97
L-J416	2,608.00	Low	1	2,832.94	97
L-J321	2,609.90	Low	5	2,832.90	96
L-J396	2,608.00	Low	5	2,832.88	97
L-J323	2,609.40	Low	1	2,832.89	97
L-J105	2,607.80	Low	8	2,832.89	97
L-J110	2,607.80	Low	4	2,832.88	97
L-J209	2,615.00	Low	0	2,832.00	94
L-J162	2,607.00	Low	1	2,832.91	98
L-J322	2,608.70	Low	1	2,832.89	97
L-J377	2,606.80	Low	0	2,832.91	98
L-J108	2,607.00	Low	0	2,832.88	98
L-J161	2,669.00	Low	1	2,828.63	69
H-J70	2,735.00	High	1	2,892.45	68
L-J146	2,616.00	Low	0	2,830.70	93
L-J393	2,608.00	Low	2	2,832.88	97
L-J96	2,608.00	Low	1	2,832.88	97
L-J112	2,607.50	Low	2	2,832.89	98
L-J220	2,616.25	Low	30	2,830.06	93
L-J425	2,605.50	Low	2	2,832.94	98
L-J122	2,605.50	Low	1	2,832.94	98
J-36	2,605.00	Low	0	2,840.32	102
L-J215	2,654.00	Low	14	2,828.52	76
L-J199	2,620.00	Low	1	2,829.66	91

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J69	2,733.90	High	0	2,893.67	69
L-J106	2,612.00	Low	8	2,832.14	95
L-J121	2,604.70	Low	3	2,832.95	99
L-J303	2,604.50	Low	0	2,841.10	102
L-J95	2,606.00	Low	5	2,832.89	98
J-39	2,604.00	Low	0	2,840.32	102
J-40	2,604.00	Low	0	2,840.32	102
L-J219	2,614.80	Low	0	2,830.06	93
L-J120	2,604.00	Low	0	2,832.96	99
L-J119	2,604.00	Low	4	2,832.97	99
H-J68	2,733.40	High	1	2,895.45	70
J-35	2,603.00	Low	0	2,840.32	103
J-37	2,603.00	Low	0	2,840.32	103
L-J163	2,603.00	Low	0	2,832.91	99
L-J104	2,603.00	Low	7	2,832.89	99
L-J502	2,603.00	Low	6	2,832.88	99
L-J123	2,602.50	Low	5	2,832.91	100
L-J558	2,604.00	Low	6	2,832.88	99
L-J147	2,612.00	Low	9	2,830.41	94
L-J148	2,612.00	Low	147	2,830.29	94
J-38	2,602.00	Low	0	2,840.32	103
J-27	2,602.00	Low	0	2,842.98	104
L-J113	2,603.50	Low	5	2,832.88	99
J-28	2,602.00	Low	0	2,844.13	105
L-J193	2,602.00	Low	3	2,832.97	100
L-J399	2,602.00	Low	2	2,832.88	100
L-J498	2,603.00	Low	6	2,832.88	99
H-J76	2,722.00	High	134	2,879.34	68
L-J118	2,601.50	Low	1	2,832.97	100
H-J5	2,720.00	High	0	2,876.46	68
J-16	2,722.57	High	0	2,880.60	68
L-J218	2,612.00	Low	0	2,830.06	94
L-J222	2,650.00	Low	0	2,828.52	77
H-J67	2,732.00	High	1	2,896.66	71
L-J198	2,613.50	Low	1	2,829.88	94
H-J75	2,728.00	High	44	2,890.03	70
J-19	2,724.25	High	0	2,883.88	69
L-J124	2,601.00	Low	0	2,832.91	100
L-J378	2,601.00	Low	1	2,832.91	100
L-J97	2,602.30	Low	5	2,832.88	100
L-J153	2,615.50	Low	15	2,829.66	93
L-J546	2,612.00	Low	6	2,829.97	94
L-J116	2,600.50	Low	6	2,832.98	101
J-33	2,600.00	Low	0	2,840.32	104
L-J318	2,601.30	Low	3	2,832.88	100

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-J92	2,734.00	High	15	2,901.95	73
L-J132	2,600.00	Low	1	2,833.01	101
L-J423	2,600.00	Low	0	2,832.97	101
L-J178	2,609.50	Low	1	2,830.35	96
L-J379	2,599.80	Low	0	2,832.91	101
L-J380	2,599.80	Low	1	2,832.91	101
L-J103	2,600.00	Low	9	2,832.89	101
L-J107	2,600.00	Low	5	2,832.88	101
L-J545	2,612.00	Low	6	2,829.88	94
L-J197	2,611.00	Low	1	2,829.97	95
L-J117	2,599.50	Low	1	2,833.00	101
L-J298	2,599.00	Low	113	2,840.32	104
J-34	2,599.00	Low	0	2,840.32	104
J-31	2,599.00	Low	0	2,840.41	104
J-32	2,599.00	Low	0	2,840.41	104
L-J152	2,611.50	Low	4	2,829.88	94
H-J106	2,732.50	High	6	2,900.92	73
L-J418	2,599.00	Low	1	2,833.01	101
L-J501	2,600.00	Low	6	2,832.88	101
L-J304	2,598.60	Low	0	2,841.10	105
L-J305	2,598.40	Low	0	2,841.10	105
L-J125	2,598.50	Low	2	2,832.91	101
L-J428	2,598.50	Low	4	2,833.27	102
L-J427	2,598.50	Low	1	2,833.24	102
L-J319	2,599.60	Low	6	2,832.88	101
L-J151	2,610.00	Low	1	2,829.97	95
H-J66	2,731.00	High	0	2,899.90	73
J-29	2,598.00	Low	0	2,840.48	105
J-30	2,598.00	Low	0	2,840.48	105
L-J98	2,599.30	Low	6	2,832.88	101
H-J77	2,717.00	High	35	2,877.02	69
L-J381	2,598.00	Low	1	2,832.91	102
L-J192	2,598.00	Low	8	2,832.97	102
L-J126	2,597.50	Low	4	2,832.91	102
H-J100	2,717.00	High	33	2,877.97	70
H-J6	2,715.90	High	0	2,876.46	69
L-J102	2,597.50	Low	14	2,832.89	102
L-J228	2,597.00	Low	1	2,839.91	105
L-J434	2,597.00	Low	6	2,834.54	103
L-J433	2,597.00	Low	6	2,834.25	103
L-J432	2,597.00	Low	5	2,834.08	103
L-J431	2,597.00	Low	5	2,833.88	102
L-J430	2,597.00	Low	5	2,833.71	102
L-J429	2,597.00	Low	5	2,833.59	102
L-J452	2,597.00	Low	4	2,833.43	102

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J127	2,597.00	Low	62	2,833.29	102
L-J227	2,596.81	Low	3	2,839.67	105
L-J128	2,597.00	Low	0	2,833.18	102
L-J419	2,597.00	Low	1	2,833.04	102
L-J499	2,598.00	Low	6	2,832.88	102
L-J130	2,596.90	Low	1	2,833.05	102
L-J566	2,597.00	Low	6	2,832.88	102
L-J150	2,607.50	Low	1	2,830.07	96
L-J224	2,596.50	Low	14	2,837.07	104
L-J225	2,596.45	Low	3	2,838.67	105
L-J131	2,596.50	Low	3	2,833.04	102
L-J129	2,596.30	Low	1	2,833.07	102
L-J295	2,596.00	Low	0	2,840.54	106
L-J294	2,596.00	Low	0	2,840.62	106
J-7	2,645.00	Low	0	2,828.52	79
L-J293	2,596.00	Low	0	2,840.92	106
L-J182	2,596.00	Low	10	2,835.43	104
L-J435	2,596.00	Low	5	2,834.95	103
L-J277	2,595.87	Low	0	2,841.10	106
L-J180	2,596.00	Low	7	2,833.03	103
J-5	2,644.75	Low	0	2,828.52	80
L-J420	2,596.00	Low	1	2,832.99	103
L-J500	2,597.00	Low	6	2,832.88	102
L-J115	2,596.70	Low	1	2,832.88	102
L-J164	2,595.80	Low	2	2,832.91	103
L-J200	2,596.00	Low	1	2,832.88	102
L-J149	2,606.00	Low	0	2,830.13	97
L-J234	2,595.11	Low	3	2,839.12	106
L-J241	2,595.11	Low	3	2,839.57	106
L-J240	2,595.11	Low	3	2,839.57	106
L-J101	2,595.50	Low	12	2,832.89	103
L-J226	2,594.93	Low	4	2,839.08	106
L-J449	2,595.00	Low	1	2,833.28	103
L-J320	2,596.00	Low	5	2,832.88	102
L-J450	2,594.00	Low	31	2,834.35	104
L-J453	2,594.00	Low	0	2,834.35	104
L-J236	2,593.81	Low	3	2,839.16	106
L-J243	2,593.81	Low	3	2,839.50	106
L-J244	2,593.81	Low	3	2,839.50	106
L-J114	2,595.00	Low	4	2,832.88	103
L-J533	2,594.00	Low	6	2,832.97	103
L-J233	2,593.66	Low	3	2,839.12	106
L-J239	2,593.66	Low	3	2,839.58	106
L-J540	2,642.00	Low	6	2,828.50	81
J-10	2,642.00	Low	0	2,828.52	81

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J394	2,594.00	Low	7	2,832.87	103
J-4	2,594.00	Low	0	2,832.88	103
L-J532	2,593.00	Low	6	2,832.98	104
L-J534	2,593.00	Low	6	2,832.97	104
L-J503	2,593.00	Low	6	2,832.89	104
L-J504	2,593.00	Low	6	2,832.89	104
L-J238	2,592.41	Low	3	2,839.21	107
L-J246	2,592.41	Low	3	2,839.43	107
L-J247	2,592.41	Low	3	2,839.43	107
L-J235	2,592.36	Low	3	2,839.16	107
L-J242	2,592.36	Low	3	2,839.50	107
L-J550	2,712.00	Low	6	2,877.94	72
L-J549	2,712.00	Low	6	2,877.94	72
L-J216	2,641.00	Low	18	2,828.52	81
L-J99	2,593.20	Low	4	2,832.88	104
L-J100	2,592.30	Low	7	2,832.89	104
L-J181	2,592.00	Low	1	2,833.00	104
L-J443	2,591.60	Low	5	2,833.59	105
H-J91	2,706.00	High	50	2,870.33	71
L-J442	2,591.10	Low	4	2,833.71	105
J-6	2,640.00	Low	0	2,828.52	82
J-8	2,640.00	Low	0	2,828.52	82
J-9	2,640.00	Low	0	2,828.52	82
J-11	2,640.00	Low	0	2,828.52	82
J-12	2,640.00	Low	0	2,828.52	82
L-J237	2,590.96	Low	3	2,839.21	107
L-J245	2,590.96	Low	3	2,839.43	108
L-J232	2,590.88	Low	1	2,839.38	108
L-J444	2,591.00	Low	4	2,833.47	105
L-J422	2,591.00	Low	7	2,832.97	105
L-J445	2,590.80	Low	2	2,833.39	105
L-J446	2,590.80	Low	5	2,833.35	105
L-J447	2,590.80	Low	1	2,833.34	105
L-J448	2,590.80	Low	3	2,833.32	105
L-J505	2,591.00	Low	6	2,832.89	105
L-J231	2,590.18	Low	3	2,839.38	108
L-J229	2,590.00	Low	4	2,839.27	108
L-J438	2,590.00	Low	0	2,834.11	106
L-J439	2,590.00	Low	6	2,834.02	106
L-J440	2,590.00	Low	0	2,833.93	106
L-J441	2,590.00	Low	6	2,833.83	105
L-J230	2,589.88	Low	3	2,839.27	108
H-J36	2,728.00	High	0	2,903.31	76
L-J421	2,590.00	Low	1	2,833.00	105
L-J424	2,590.00	Low	2	2,832.98	105

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J436	2,589.20	Low	0	2,834.17	106
L-J437	2,589.20	Low	7	2,834.14	106
L-J255	2,588.70	Low	7	2,839.28	108
J-5	2,590.00	Low	0	2,832.87	105
L-J254	2,588.49	Low	5	2,839.28	109
L-J256	2,588.40	Low	6	2,839.28	109
L-J274	2,588.17	Low	2	2,839.28	109
L-J248	2,588.00	Low	4	2,839.28	109
L-J265	2,587.95	Low	2	2,839.28	109
L-J269	2,587.75	Low	10	2,839.28	109
L-J530	2,588.00	Low	6	2,832.98	106
L-J253	2,587.64	Low	7	2,839.28	109
L-J267	2,587.62	Low	3	2,839.28	109
L-J264	2,587.62	Low	6	2,839.28	109
L-J268	2,587.61	Low	5	2,839.28	109
L-J266	2,587.40	Low	3	2,839.28	109
L-J270	2,587.40	Low	6	2,839.29	109
L-J263	2,587.39	Low	5	2,839.28	109
L-J259	2,587.14	Low	3	2,839.28	109
L-J262	2,587.12	Low	4	2,839.28	109
L-J567	2,587.00	Low	6	2,839.72	109
L-J260	2,586.85	Low	4	2,839.28	109
L-J258	2,586.85	Low	5	2,839.28	109
L-J251	2,586.71	Low	0	2,839.45	109
L-J273	2,586.60	Low	0	2,839.49	109
L-J257	2,586.58	Low	5	2,839.28	109
L-J249	2,586.56	Low	6	2,839.30	109
L-J261	2,586.54	Low	4	2,839.28	109
L-J272	2,586.54	Low	7	2,839.29	109
J-25	2,586.35	High	0	2,839.53	110
L-J568	2,586.00	Low	6	2,839.56	110
L-J250	2,585.96	Low	6	2,839.37	110
L-J217	2,635.00	Low	15	2,828.50	84
L-J252	2,585.73	Low	7	2,839.31	110
L-J271	2,585.70	Low	8	2,839.33	110
H-J2	2,721.00	High	1	2,902.47	79
L-J291	2,584.50	Low	0	2,839.55	110
L-J292	2,584.00	Low	49	2,839.56	111
L-J290	2,583.00	Low	0	2,839.53	111
L-J287	2,582.50	Low	1	2,839.52	111
L-J289	2,582.41	Low	0	2,839.52	111
H-J78	2,697.00	High	26	2,870.35	75
L-J281	2,582.00	Low	2	2,839.53	111
L-J282	2,582.00	Low	0	2,839.53	111
L-J283	2,581.90	Low	1	2,839.53	111

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Junction Report
PHD Nodes - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
L-J284	2,581.70	Low	1	2,839.53	112
L-J288	2,581.70	Low	2	2,839.53	112
L-J285	2,581.40	Low	0	2,839.53	112
L-J548	2,701.00	Low	30	2,877.93	77
L-J551	2,701.00	Low	6	2,877.94	77
L-J552	2,701.00	Low	6	2,877.94	77
L-J553	2,701.00	Low	6	2,877.94	77
L-J286	2,581.20	Low	1	2,839.53	112
J-28	2,579.20	MVE	3	2,717.90	60
J-29	2,579.20	MVE	3	2,717.90	60
J-30	2,579.20	MVE	3	2,717.92	60
J-27	2,579.20	MVE	3	2,717.93	60
J-26	2,579.20	Low	0	2,834.17	110
L-J461	2,618.00	Low	0	2,828.50	91
L-J536	2,618.00	Low	6	2,828.50	91
L-J554	2,617.00	Low	6	2,828.50	92
J-6	2,617.00	Low	0	2,828.50	92
L-J539	2,616.00	Low	6	2,828.50	92
L-J460	2,616.00	Low	1	2,828.50	92
J-45	2,684.00	High	0	2,874.35	82
L-J462	2,615.00	Low	1	2,828.50	92
L-J459	2,613.70	Low	2	2,828.50	93
L-J275	2,611.60	Low	1	2,828.50	94
J-7	2,611.00	Low	0	2,828.50	94
L-J457	2,610.00	Low	1	2,828.50	95
J-1	2,610.00	Low	0	2,828.50	95
L-J456	2,609.10	Low	0	2,828.50	95
L-J276	2,608.90	Low	0	2,828.50	95
J-18	2,722.00	High	0	2,879.34	68

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P197	200	10.0	PVC	1,252	5.12	1.53	145.0
CV-L-P198	324	8.0	PVC	502	3.20	2.68	100.0
CV-L-P377	424	8.0	PVC	14	0.09	0.00	100.0
CV-L-P631	270	8.0	PVC	27	0.18	0.01	140.0
CV-L-P149	718	8.0	PVC	284	1.81	1.11	140.0
CV-L-P148	322	8.0	PVC	304	1.94	0.57	140.0
CV-L-P204	110	10.0	PVC	0	0.00	0.00	145.0
CV-L-P205	166	10.0	PVC	0	0.00	0.00	145.0
CV-H-P44	207	8.0	PVC	970	6.19	0.08	150.0
CV-H-P43	293	8.0	PVC	970	6.19	0.08	150.0
CV-L-P201	214	12.0	PVC	0	0.00	0.00	100.0
CV-H-P160	284	8.0	PVC	0	0.00	0.00	145.0
CV-H-P161	299	8.0	PVC	0	0.00	0.00	145.0
CV-L-P151	532	8.0	PVC	11	0.07	0.00	140.0
CV-L-P632	158	8.0	PVC	11	0.07	0.00	140.0
CV-L-P153	130	10.0	PVC	5	0.02	0.00	145.0
P-89	689	8.0	PVC	225	1.44	1.30	100.0
P-94	737	8.0	PVC	292	1.86	2.24	100.0
P-95	740	8.0	PVC	16	0.10	0.01	100.0
P-3	323	8.0	PVC	235	1.50	0.66	100.0
CV-L-P395	219	10.0	PVC	222	0.91	0.11	110.0
CV-L-P203	183	10.0	PVC	750	3.06	0.54	145.0
CV-L-P394	1,417	10.0	PVC	242	0.99	0.55	140.0
CV-L-P679	270	8.0	PVC	268	1.71	0.70	100.0
CV-L-P680	391	8.0	PVC	258	1.65	0.95	100.0
CV-L-P583	459	8.0	PVC	239	1.52	0.96	100.0
CV-L-P70	1,114	8.0	PVC	-235	1.50	2.27	100.0
CV-L-P69	560	8.0	PVC	-223	1.42	1.25	90.0
CV-L-P4	356	18.0	PVC	3,092	3.90	0.83	145.0
CV-L-P5	1,301	18.0	PVC	3,092	3.90	4.29	120.0
P-18	1,431	8.0	Ductile Iron	301	1.92	2.83	130.0
CV-L-P378	289	8.0	PVC	-260	1.66	0.36	145.0
CV-L-P379	364	8.0	PVC	-263	1.68	0.91	100.0
CV-L-P586	702	8.0	PVC	-265	1.69	0.89	145.0
CV-L-P381	801	8.0	PVC	266	1.70	2.05	100.0
CV-L-P633	632	6.0	PVC	6	0.07	0.00	145.0
CV-L-P152	115	10.0	PVC	11	0.05	0.00	145.0
CV-L-P365	216	12.0	PVC	617	1.75	0.26	120.0
CV-H-P1	165	14.0	PVC	1,206	2.51	0.24	140.0
P-87	1,345	14.0	PVC	1,206	2.51	1.75	150.0
P-53	129	14.0	PVC	1,077	2.24	0.14	150.0
P-54	382	14.0	PVC	1,077	2.24	0.40	150.0
CV-L-P202	176	16.0	PVC	0	0.00	0.00	100.0
CV-H-P76	961	14.0	PVC	1,038	2.16	1.01	145.0
CV-H-P77	232	14.0	PVC	1,008	2.10	0.25	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P78	584	14.0	PVC	1,008	2.10	0.71	130.0
CV-L-P292	1,706	12.0	PVC	26	0.07	0.00	140.0
CV-L-P41	465	12.0	PVC	624	1.77	0.97	90.0
CV-L-P8	2,112	12.0	PVC	99	0.28	0.06	145.0
CV-H-P121	118	16.0	PVC	2,182	3.48	0.43	110.0
CV-H-P122	138	16.0	PVC	2,182	3.48	0.50	110.0
CV-H-P117	260	16.0	PVC	2,469	3.94	1.18	110.0
CV-H-P95	836	16.0	PVC	2,439	3.89	3.71	110.0
CV-H-P96	459	16.0	PVC	2,436	3.89	1.39	135.0
CV-H-P97	460	16.0	PVC	2,435	3.88	2.03	110.0
CV-H-P98	460	16.0	PVC	2,435	3.88	1.39	135.0
CV-H-P99	387	16.0	PVC	2,432	3.88	1.71	110.0
CV-H-P45	1,000	16.0	PVC	970	1.55	0.86	120.0
CV-H-P70	1,058	16.0	PVC	969	1.55	0.54	140.0
CV-H-P103(2)	351	16.0	PVC	1,615	2.58	0.73	110.0
CV-L-P613	736	8.0	PVC	18	0.12	0.01	140.0
CV-L-P612	381	8.0	PVC	38	0.24	0.01	140.0
CV-H-P73	673	16.0	PVC	1,388	2.21	0.67	140.0
CV-L-P42	518	12.0	PVC	501	1.42	0.59	100.0
CV-L-P364	798	12.0	PVC	498	1.41	0.65	120.0
CV-L-P402	360	8.0	PVC	68	0.43	0.04	140.0
CV-H-P103(1)(2)	1,045	16.0	PVC	1,548	2.47	2.00	110.0
CV-L-P208	230	12.0	PVC	1,182	3.35	0.69	140.0
CV-H-P74	506	16.0	PVC	1,318	2.10	0.46	140.0
CV-L-P405	357	8.0	PVC	93	0.59	0.07	140.0
CV-L-P43	638	10.0	PVC	-353	1.44	0.66	120.0
P-136	1,197	16.0	PVC	1,206	1.92	0.92	140.0
CV-L-P664	245	8.0	PVC	262	1.67	0.33	140.0
CV-L-P665	246	8.0	PVC	262	1.67	0.33	140.0
CV-L-P404	720	8.0	PVC	133	0.85	0.27	140.0
CV-L-P88	459	8.0	PVC	238	1.52	0.51	140.0
CV-L-P67	714	8.0	PVC	199	1.27	0.57	140.0
CV-L-P147	1,108	8.0	PVC	159	1.02	0.59	140.0
CV-H-P103(1)(1)	2,321	16.0	PVC	1,891	3.02	6.42	110.0
CV-L-P146	360	8.0	PVC	178	1.14	0.23	140.0
CV-L-P128	937	12.0	PVC	964	2.74	1.94	140.0
CV-L-P145	360	8.0	PVC	191	1.22	0.27	140.0
P-46	206	16.0	Ductile Iron	728	1.16	0.07	130.0
P-49	9,825	16.0	PVC	-728	1.16	2.97	140.0
CV-H-P104	329	16.0	PVC	897	1.43	0.17	130.0
CV-L-P210	370	8.0	PVC	3	0.02	0.00	80.0
CV-L-P393	195	8.0	PVC	3	0.02	0.00	80.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-45	658	16.0	Ductile Iron	-718	1.15	0.22	130.0
CV-L-P7	3,450	14.0	PVC	1,772	3.69	13.81	120.0
CV-H-P162	805	16.0	PVC	-1,671	2.67	1.06	145.0
CV-L-P358	694	10.0	PVC	-297	1.21	0.61	110.0
CV-L-P6	145	14.0	PVC	1,839	3.83	0.44	145.0
CV-L-P206	153	12.0	PVC	-862	2.45	0.26	140.0
CV-H-P105	350	16.0	PVC	730	1.16	0.12	130.0
CV-L-P55	681	12.0	PVC	-778	2.21	0.95	140.0
CV-H-P61	1,231	16.0	PVC	705	1.13	0.35	140.0
CV-H-P62	810	16.0	PVC	690	1.10	0.25	130.0
CV-L-P127	230	12.0	PVC	703	1.99	0.26	140.0
P-81	1,730	8.0	Ductile Iron	-438	2.79	6.84	130.0
CV-H155	691	8.0	PVC	-151	0.97	0.31	145.0
CV-L-P54	660	12.0	PVC	-741	2.10	0.84	140.0
CV-L-P53	660	12.0	PVC	-701	1.99	0.75	140.0
CV-L-P599	303	12.0	PVC	-311	0.88	0.07	145.0
CV-L-P589	910	12.0	PVC	410	1.16	0.36	145.0
CV-L-P209	135	15.0	PVC	1,182	2.15	0.00	140.0
CV-L-P588	1,424	12.0	PVC	430	1.22	0.66	140.0
CV-H-P110	267	16.0	PVC	595	0.95	0.09	110.0
CV-H156(2)	428	6.0	PVC	182	2.07	1.11	145.0
CV-L-P45	676	12.0	PVC	616	1.75	0.61	140.0
CV-L-P126	711	12.0	PVC	596	1.69	0.60	140.0
CV-L-P367	874	8.0	PVC	129	0.82	0.31	140.0
CV-L-P634	660	8.0	PVC	-125	0.80	0.21	145.0
CV-L-P366	277	8.0	PVC	-124	0.79	0.09	145.0
CV-L-P130	1,625	12.0	PVC	300	0.85	0.36	145.0
P-91	830	10.0	PVC	749	3.06	4.08	110.0
P-92	1,225	10.0	PVC	682	2.79	5.07	110.0
CV-L-P374	343	10.0	PVC	680	2.78	0.79	150.0
CV-H-P127	230	16.0	PVC	513	0.82	0.03	150.0
CV-H-P58	310	16.0	PVC	508	0.81	0.04	145.0
CV-H-P65	653	8.0	PVC	157	1.00	0.30	150.0
CV-L-P359	630	10.0	PVC	-263	1.07	0.45	110.0
CV-L-P89	426	8.0	PVC	135	0.86	0.17	140.0
P-13	837	6.0	Ductile Iron	67	0.76	0.41	130.0
P-47	1,031	12.0	PVC	-281	0.80	0.22	140.0
CV-L-P144	410	10.0	PVC	243	0.99	0.16	140.0
CV-L-P143	693	10.0	PVC	243	0.99	0.42	110.0
CV-H-P130	544	8.0	PVC	-137	0.88	0.21	145.0
P-4	176	8.0	PVC	-127	0.81	0.06	140.0
P-42	766	16.0	PVC	-477	0.76	0.10	145.0
CV-H-P66	1,013	8.0	PVC	-112	0.72	0.25	150.0
CV-L-P58	659	8.0	PVC	241	1.54	0.75	140.0
CV-L-P44	1,966	6.0	PVC	-98	1.11	1.72	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P519	1,062	8.0	PVC	157	1.00	0.55	140.0
CV-L-P520	1,215	8.0	PVC	151	0.97	0.59	140.0
CV-L-P698	668	8.0	PVC	235	1.50	0.73	140.0
CV-L-P347	654	8.0	PVC	233	1.48	0.70	140.0
P-44	299	16.0	Ductile Iron	-438	0.70	0.04	130.0
CV-L-P49	713	12.0	PVC	473	1.34	0.39	140.0
CV-L-P50	670	12.0	PVC	138	0.39	0.04	140.0
CV-H156(1)	250	6.0	PVC	138	1.57	0.39	145.0
CV-L-P36	458	12.0	PVC	197	0.56	0.11	90.0
CV-L-P591	318	8.0	PVC	-263	1.68	0.43	140.0
CV-L-P37	448	12.0	PVC	178	0.51	0.09	90.0
CV-L-P38	644	12.0	PVC	158	0.45	0.11	90.0
CV-L-P685	271	8.0	PVC	-282	1.80	0.42	140.0
CV-H-P107	2,671	6.0	PVC	-61	0.69	0.97	140.0
CV-L-P24	445	12.0	PVC	376	1.07	0.16	140.0
CV-L-P25	1,778	12.0	PVC	376	1.07	0.64	140.0
CV-L-P39	697	12.0	PVC	418	1.18	0.69	90.0
CV-L-P40	1,585	12.0	PVC	411	1.17	1.53	90.0
CV-L-P23	443	12.0	PVC	395	1.12	0.18	140.0
CV-L-P22	411	12.0	PVC	428	1.21	0.19	140.0
CV-L-P21	448	12.0	PVC	432	1.22	0.21	140.0
CV-H-P55	1,026	8.0	PVC	95	0.61	0.21	140.0
CV-H-P124	406	8.0	PVC	95	0.61	0.08	140.0
CV-L-P12	354	10.0	PVC	373	1.52	0.29	145.0
CV-L-P141	428	10.0	PVC	510	2.08	0.76	130.0
CV-L-P140	716	10.0	PVC	511	2.09	1.11	140.0
CV-L-P348	683	8.0	PVC	204	1.30	0.57	140.0
CV-L-P13	292	10.0	PVC	354	1.44	0.21	145.0
CV-L-P46	664	12.0	PVC	458	1.30	0.34	140.0
CV-L-P344	1,325	8.0	PVC	96	0.61	0.27	140.0
CV-L-P440	808	12.0	PVC	483	1.37	0.46	140.0
CV-L-P47	660	12.0	PVC	443	1.26	0.32	140.0
CV-L-P543	454	12.0	PVC	488	1.38	0.35	120.0
CV-L-P14	639	10.0	PVC	343	1.40	0.44	145.0
CV-L-P670	1,488	10.0	PVC	342	1.40	1.03	145.0
CV-L-P557	501	8.0	PVC	88	0.56	0.09	140.0
CV-L-P48	660	12.0	PVC	427	1.21	0.30	140.0
CV-L-P444	323	10.0	PVC	-330	1.35	0.21	145.0
CV-L-P542	460	12.0	PVC	507	1.44	0.29	140.0
CV-L-P135	361	8.0	PVC	347	2.21	0.81	140.0
CV-L-P345	455	8.0	PVC	76	0.48	0.06	140.0
CV-L-P68	357	8.0	PVC	67	0.43	0.04	140.0
CV-L-P535	524	8.0	PVC	65	0.42	0.05	140.0
CV-L-P110	600	12.0	PVC	56	0.16	0.01	140.0
CV-L-P668	2,456	12.0	PVC	-54	0.15	0.02	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P362	1,263	8.0	PVC	-62	0.39	0.12	140.0
CV-H-P100	776	16.0	PVC	758	1.21	0.40	110.0
CV-H-P101	614	16.0	PVC	758	1.21	0.31	110.0
CV-L-P108	462	8.0	PVC	68	0.44	0.05	140.0
CV-L-P93	758	8.0	PVC	62	0.40	0.07	140.0
CV-H-P102	687	16.0	PVC	740	1.18	0.33	110.0
CV-L-P131	1,923	6.0	PVC	-42	0.48	0.33	145.0
CV-L-P142	286	10.0	PVC	411	1.68	0.34	130.0
P-21	2,264	4.0	PVC	-25	0.64	1.14	140.0
CV-L-P66	1,795	8.0	PVC	45	0.29	0.09	140.0
CV-L-P350	637	8.0	PVC	45	0.29	0.03	140.0
CV-L-P645	985	8.0	PVC	39	0.25	0.04	140.0
CV-L-P360	506	8.0	PVC	-37	0.24	0.02	145.0
CV-L-P442	186	12.0	PVC	35	0.10	0.00	140.0
CV-L-P669	1,358	12.0	PVC	-30	0.08	0.00	140.0
CV-L-P552	390	12.0	PVC	20	0.06	0.00	140.0
CV-L-P31	300	12.0	PVC	-1,022	2.90	0.69	140.0
CV-L-P92	462	8.0	PVC	58	0.37	0.04	140.0
CV-L-P51	660	12.0	PVC	83	0.24	0.01	140.0
CV-L-P109	1,605	8.0	PVC	47	0.30	0.09	140.0
CV-L-P677	454	10.0	PVC	-173	0.71	0.09	145.0
CV-L-P90	2,280	8.0	PVC	66	0.42	0.24	140.0
CV-L-P32	310	12.0	PVC	-915	2.60	0.58	140.0
CV-L-P34	1,260	12.0	PVC	-1,128	3.20	3.48	140.0
CV-L-P33	310	12.0	PVC	-930	2.64	0.60	140.0
CV-L-P427	1,695	8.0	PVC	-59	0.38	0.14	140.0
CV-L-P445	161	8.0	PVC	59	0.38	0.01	140.0
CV-L-P555	419	8.0	PVC	59	0.38	0.04	140.0
CV-L-P346	556	8.0	PVC	-58	0.37	0.05	140.0
CV-L-P654	1,084	12.0	PVC	320	0.91	0.29	140.0
CV-L-P425	482	8.0	PVC	59	0.38	0.04	140.0
CV-L-P214	1,389	8.0	PVC	110	0.70	0.37	140.0
CV-L-P693	641	8.0	PVC	-110	0.70	0.17	140.0
CV-L-P558	538	8.0	PVC	-46	0.29	0.03	140.0
CV-L-P676	429	10.0	PVC	13	0.05	0.00	145.0
CV-L-P61	203	8.0	PVC	155	0.99	0.10	140.0
CV-L-P62	460	8.0	PVC	155	0.99	0.23	140.0
CV-L-P561	1,548	8.0	PVC	-36	0.23	0.05	140.0
CV-L-P696	1,513	12.0	PVC	266	0.75	0.29	140.0
CV-L-P87	1,399	8.0	PVC	88	0.56	0.25	140.0
CV-L-P564	460	12.0	PVC	16	0.04	0.00	140.0
P-8	117	8.0	PVC	-73	0.46	0.01	140.0
P-1	1,330	8.0	PVC	131	0.84	0.49	140.0
P-2	1,408	8.0	PVC	62	0.40	0.13	140.0
CV-L-P686	1,378	8.0	PVC	-146	0.93	0.62	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P106	282	8.0	PVC	-26	0.17	0.01	110.0
CV-L-P368	1,011	8.0	PVC	-52	0.33	0.07	140.0
CV-L-P422	308	8.0	PVC	-52	0.33	0.02	140.0
CV-L-P692	606	8.0	PVC	146	0.93	0.28	140.0
CV-H-P125(1)	382	8.0	PVC	46	0.29	0.02	140.0
CV-H-P125(2)	1,044	8.0	PVC	46	0.29	0.06	140.0
CV-H-P126	1,496	8.0	PVC	46	0.29	0.08	140.0
CV-L-P185	1,109	8.0	PVC	154	0.99	0.56	140.0
CV-L-P451	548	8.0	PVC	-63	0.40	0.05	140.0
CV-L-P91	429	8.0	PVC	43	0.28	0.02	140.0
CV-H-P40	323	10.0	PVC	-1,763	7.20	9.24	100.0
P-43	1,433	8.0	PVC	-39	0.25	0.06	140.0
CV-L-P480	169	8.0	PVC	-286	1.83	0.27	140.0
CV-H-P111	157	16.0	PVC	-123	0.20	0.00	120.0
CV-L-P122	142	12.0	PVC	356	1.01	0.05	140.0
CV-L-P121	537	12.0	PVC	357	1.01	0.18	140.0
CV-L-P466	294	12.0	PVC	357	1.01	0.10	140.0
CV-L-P136	290	8.0	PVC	189	1.21	0.21	140.0
P-9	462	8.0	PVC	-139	0.89	0.19	140.0
CV-L-P459	2,159	12.0	PVC	-115	0.33	0.09	140.0
CV-L-P26	472	12.0	PVC	-596	1.69	0.40	140.0
CV-L-P35	2,122	14.0	PVC	-1,218	2.54	3.19	140.0
CV-H-P2	432	6.0	PVC	110	1.24	0.46	140.0
CV-L-P86	431	8.0	PVC	295	1.88	0.72	140.0
CV-L-P94	847	8.0	PVC	23	0.15	0.01	140.0
P-55	210	8.0	PVC	193	1.23	0.15	145.0
P-58	267	8.0	PVC	193	1.23	0.19	145.0
P-59	356	8.0	PVC	193	1.23	0.25	145.0
CV-L-P132	298	8.0	PVC	-69	0.44	0.03	145.0
CV-L-P343	427	8.0	PVC	-28	0.18	0.01	140.0
CV-H-P72	217	16.0	PVC	294	0.47	0.02	110.0
CV-L-P546	472	8.0	PVC	143	0.91	0.21	140.0
CV-L-P481	205	8.0	PVC	-274	1.75	0.30	140.0
CV-L-P27	375	12.0	PVC	-620	1.76	0.34	140.0
CV-L-P95	429	12.0	PVC	128	0.36	0.02	140.0
CV-L-P418	460	8.0	PVC	169	1.08	0.27	140.0
CV-L-P342	427	12.0	PVC	-12	0.03	0.00	140.0
P-16	295	12.0	PVC	-343	0.97	0.09	140.0
CV-L-P28	290	12.0	PVC	-641	1.82	0.28	140.0
CV-L-P468	141	8.0	PVC	-285	1.82	0.22	140.0
CV-L-P467	194	12.0	PVC	299	0.85	0.05	140.0
CV-L-P341	847	8.0	PVC	12	0.08	0.00	140.0
CV-L-P29	290	12.0	PVC	-652	1.85	0.29	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P549	494	8.0	PVC	133	0.85	0.19	140.0
CV-L-P30	290	12.0	PVC	-664	1.88	0.30	140.0
CV-L-P175	183	12.0	PVC	-189	0.54	0.02	140.0
P-17	611	6.0	Ductile Iron	44	0.50	0.14	130.0
P-18	106	6.0	Ductile Iron	44	0.50	0.02	130.0
P-19	417	6.0	Ductile Iron	44	0.50	0.09	130.0
P-20	571	6.0	Ductile Iron	44	0.50	0.13	130.0
CV-L-P60	2,726	8.0	PVC	-33	0.21	0.08	140.0
CV-L-P469	210	8.0	PVC	-293	1.87	0.34	140.0
CV-L-P503	200	8.0	PVC	231	1.48	0.21	140.0
CV-L-P77	1,060	8.0	PVC	257	1.64	1.36	140.0
CV-H-P38	142	10.0	PVC	-1,672	6.83	1.85	145.0
CV-L-P501	203	8.0	PVC	245	1.57	0.24	140.0
CV-L-P502	203	8.0	PVC	238	1.52	0.23	140.0
CV-L-P82	243	8.0	PVC	150	0.96	0.11	145.0
CV-L-P471	141	8.0	PVC	-360	2.30	0.34	140.0
CV-H-P83	460	10.0	PVC	-1,662	6.79	11.80	100.0
CV-L-P504	193	8.0	PVC	206	1.31	0.16	140.0
CV-L-P83	1,152	8.0	PVC	148	0.94	0.50	145.0
CV-L-P470	207	8.0	PVC	-310	1.98	0.38	140.0
CV-L-P96	494	12.0	PVC	79	0.22	0.01	140.0
CV-L-P473	209	8.0	PVC	-471	3.01	0.83	140.0
CV-L-P196	820	12.0	PVC	-93	0.27	0.02	140.0
CV-L-P465	208	12.0	PVC	246	0.70	0.03	140.0
CV-L-P474	212	8.0	PVC	-515	3.28	0.99	140.0
CV-L-P229	404	8.0	PVC	-706	4.51	3.38	140.0
CV-L-P500	150	8.0	PVC	248	1.58	0.18	140.0
CV-L-P472	211	8.0	PVC	-388	2.48	0.58	140.0
CV-L-P416	1,176	8.0	PVC	242	1.55	1.35	140.0
CV-L-P311	156	12.0	PVC	793	2.25	0.42	100.0
CV-L-P312	269	12.0	PVC	793	2.25	0.72	100.0
CV-L-P313	69	12.0	PVC	793	2.25	0.19	100.0
CV-L-P71	509	8.0	PVC	124	0.79	0.17	140.0
CV-H-P82	460	10.0	PVC	-1,641	6.71	14.02	90.0
CV-L-P52	1,320	12.0	PVC	-120	0.34	0.06	140.0
CV-L-P499	196	8.0	PVC	207	1.32	0.17	140.0
CV-H-P87	3,122	16.0	PVC	-1,952	3.11	21.17	70.0
CV-H-P85	1,036	16.0	PVC	-1,952	3.11	7.02	70.0
CV-L-P460	1,961	12.0	PVC	-125	0.35	0.09	140.0
P-51	2,715	16.0	PVC	-1,372	2.19	2.65	140.0
P-134	2,680	16.0	PVC	-1,372	2.19	2.62	140.0
P-135	597	16.0	PVC	-1,372	2.19	0.58	140.0
CV-L-P116	257	6.0	PVC	36	0.41	0.03	140.0
CV-L-P84	375	8.0	PVC	125	0.80	0.13	140.0
CV-L-P695	253	8.0	PVC	241	1.54	0.29	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P72	930	8.0	PVC	108	0.69	0.24	140.0
CV-L-P85	202	8.0	PVC	122	0.78	0.07	140.0
CV-L-P172	1,196	8.0	PVC	-81	0.52	0.17	145.0
CV-H-P142	213	6.0	PVC	69	0.78	0.10	140.0
CV-L-P217	589	8.0	PVC	-237	1.51	0.65	140.0
CV-L-P498	203	8.0	PVC	199	1.27	0.16	140.0
CV-L-P101	1,366	12.0	PVC	-124	0.35	0.06	140.0
CV-L-P452	1,113	8.0	PVC	-42	0.27	0.05	140.0
CV-L-P173	1,150	8.0	PVC	-83	0.53	0.17	145.0
CV-L-P462	511	8.0	PVC	-23	0.14	0.01	145.0
CV-H-P81	1,819	10.0	PVC	-1,616	6.60	53.83	90.0
CV-H-P86	70	16.0	PVC	-1,903	3.04	0.35	80.0
CV-L-P218	387	10.0	PVC	185	0.76	0.09	140.0
CV-L-P117	731	6.0	PVC	30	0.34	0.07	140.0
CV-L-P97	426	12.0	PVC	29	0.08	0.00	140.0
CV-L-P78	460	8.0	PVC	-228	1.46	0.47	140.0
CV-L-P578	925	10.0	PVC	77	0.31	0.04	140.0
CV-L-P257	160	8.0	PVC	-242	1.54	0.18	140.0
CV-L-P255	233	8.0	PVC	-21	0.14	0.00	140.0
CV-L-P349	891	8.0	PVC	-27	0.17	0.02	140.0
CV-L-P497	196	8.0	PVC	127	0.81	0.07	140.0
CV-L-P521	197	6.0	PVC	54	0.61	0.06	140.0
CV-L-P659	989	8.0	PVC	23	0.15	0.01	140.0
CV-L-P505	163	8.0	PVC	137	0.88	0.07	140.0
P-50	7,933	18.0	PVC	-1,372	1.73	4.37	140.0
CV-L-P74	1,122	8.0	PVC	152	0.97	0.55	140.0
CV-L-P356	846	8.0	PVC	-21	0.13	0.01	140.0
CV-L-P559	457	12.0	PVC	5	0.01	0.00	140.0
CV-L-P107	460	8.0	PVC	14	0.09	0.00	140.0
CV-L-P98	460	12.0	PVC	-5	0.01	0.00	140.0
P-137 -EST	323	8.0	PVC	100	0.64	0.07	140.0
CV-L-P413	426	8.0	PVC	151	0.96	0.20	140.0
CV-L-P454	432	8.0	PVC	-26	0.17	0.01	140.0
CV-L-P414	260	8.0	PVC	150	0.95	0.12	140.0
CV-L-P607	1,534	8.0	PVC	-28	0.18	0.03	140.0
CV-L-P111	357	8.0	PVC	-66	0.42	0.04	140.0
CV-L-P73	1,089	8.0	PVC	81	0.51	0.16	140.0
CV-L-P587	403	8.0	PVC	-146	0.93	0.18	140.0
CV-L-P113	195	8.0	PVC	57	0.37	0.02	140.0
CV-L-P577	979	10.0	PVC	106	0.43	0.08	140.0
CV-L-P168	980	8.0	PVC	-120	0.76	0.31	140.0
CV-L-P176	787	8.0	PVC	51	0.33	0.05	140.0
CV-L-P415	1,014	8.0	PVC	-142	0.90	0.43	140.0
CV-L-P115	251	6.0	PVC	28	0.32	0.02	140.0
CV-L-P690	312	8.0	PVC	122	0.78	0.10	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-3	3,986	12.0	PVC	-579	1.64	3.20	140.0
CV-L-P691	845	8.0	PVC	122	0.78	0.27	140.0
CV-L-P450	525	8.0	PVC	123	0.79	0.17	140.0
CV-L-P158	974	8.0	PVC	124	0.79	0.32	140.0
CV-L-P75	580	8.0	PVC	138	0.88	0.24	140.0
CV-L-P674	1,143	10.0	PVC	469	1.91	2.36	110.0
CV-L-P11	125	12.0	PVC	1,668	4.73	0.95	120.0
CV-L-P496	206	8.0	PVC	105	0.67	0.05	140.0
CV-L-P694	307	10.0	PVC	-117	0.48	0.03	140.0
CV-H-P41	306	8.0	PVC	-86	0.55	0.05	150.0
CV-L-P99	920	12.0	PVC	-31	0.09	0.00	140.0
CV-H-P112	416	8.0	PVC	85	0.54	0.07	140.0
CV-L-P114	313	8.0	PVC	46	0.29	0.02	140.0
CV-L-P673	1,446	10.0	PVC	478	1.95	3.10	110.0
CV-L-P18	1,033	10.0	PVC	652	2.66	2.51	140.0
CV-L-P244	334	8.0	PVC	179	1.14	0.22	140.0
CV-H-P138	107	6.0	PVC	-43	0.49	0.02	140.0
CV-L-P219	2,204	12.0	PVC	171	0.49	0.19	140.0
CV-L-P76	460	8.0	PVC	126	0.80	0.16	140.0
CV-L-P260	195	8.0	PVC	-20	0.13	0.00	140.0
CV-H-P26	401	6.0	PVC	-42	0.48	0.06	150.0
CV-L-P238	335	8.0	PVC	-101	0.64	0.08	140.0
CV-L-P234	1,284	8.0	PVC	-228	1.46	1.24	145.0
CV-L-P678	837	8.0	PVC	-176	1.12	0.50	145.0
CV-H-P3	79	6.0	PVC	41	0.47	0.01	140.0
CV-L-P443	329	8.0	PVC	-175	1.12	0.21	140.0
CV-L-P20	897	12.0	PVC	547	1.55	0.65	140.0
CV-H-P35	246	6.0	PVC	39	0.44	0.03	150.0
CV-L-P235	304	8.0	PVC	5	0.03	0.00	140.0
P-74	132	6.0	PVC	44	0.50	0.03	140.0
CV-L-P475	749	8.0	PVC	-61	0.39	0.07	140.0
CV-L-P550	269	12.0	PVC	114	0.32	0.01	140.0
CV-L-P247	314	8.0	PVC	165	1.06	0.18	140.0
CV-L-P240	314	8.0	PVC	-111	0.71	0.09	140.0
CV-L-P102	1,443	8.0	PVC	28	0.18	0.03	140.0
CV-L-P493	903	6.0	PVC	62	0.70	0.34	140.0
CV-H-P36	266	6.0	PVC	35	0.39	0.03	150.0
P-6	264	12.0	PVC	104	0.29	0.01	140.0
CV-L-P649	894	12.0	PVC	-413	1.17	0.36	145.0
CV-L-P261	283	8.0	PVC	82	0.53	0.04	140.0
CV-L-P494	944	6.0	PVC	60	0.68	0.33	140.0
CV-L-P57	2,726	6.0	PVC	18	0.20	0.10	140.0
CV-L-P523	278	6.0	PVC	30	0.34	0.03	140.0
CV-H-P25	260	6.0	PVC	-33	0.38	0.03	150.0
CV-L-P423	390	12.0	PVC	-99	0.28	0.01	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-30-MV	67	3.0	PVC	-8	0.38	0.02	150.0
CV-L-P506	190	8.0	PVC	70	0.45	0.02	140.0
P-23	733	8.0	PVC	155	0.99	0.37	140.0
CV-L-P314	872	12.0	PVC	601	1.70	1.40	100.0
CV-L-P603	1,541	8.0	PVC	24	0.16	0.03	140.0
CV-L-P16	465	10.0	PVC	496	2.03	0.68	140.0
CV-L-P233	346	12.0	PVC	-598	1.70	0.55	100.0
CV-H-P31	260	6.0	PVC	31	0.35	0.02	150.0
CV-L-P118	148	8.0	PVC	18	0.12	0.00	140.0
CV-L-P288	72	10.0	PVC	-460	1.88	0.09	140.0
CV-L-P476	1,116	8.0	PVC	-52	0.33	0.07	140.0
CV-L-P478	1,760	8.0	PVC	-59	0.38	0.15	140.0
CV-L-P409	300	8.0	PVC	17	0.11	0.00	140.0
CV-L-P457	443	8.0	PVC	27	0.17	0.01	140.0
CV-L-P230	2,673	12.0	PVC	-731	2.07	3.30	140.0
CV-L-P242	314	8.0	PVC	-121	0.77	0.10	140.0
CV-L-P256	302	8.0	PVC	-150	0.96	0.14	140.0
CV-L-P410	290	8.0	PVC	16	0.10	0.00	140.0
CV-L-P699	702	8.0	PVC	12	0.07	0.00	145.0
CV-H-P6	420	8.0	PVC	51	0.33	0.03	140.0
CV-L-P250	314	8.0	PVC	152	0.97	0.15	140.0
CV-L-P534	603	6.0	PVC	-34	0.39	0.08	140.0
P-7	397	8.0	PVC	66	0.42	0.04	140.0
CV-L-P479	1,757	8.0	PVC	-65	0.42	0.18	140.0
CV-L-P507	389	8.0	PVC	57	0.36	0.03	140.0
CV-L-P438	187	8.0	PVC	49	0.31	0.01	140.0
CV-L-P539	794	8.0	PVC	49	0.31	0.05	140.0
CV-L-P339	887	8.0	PVC	12	0.08	0.00	140.0
CV-L-P19	847	12.0	PVC	638	1.81	0.81	140.0
CV-L-P417	520	8.0	PVC	67	0.43	0.06	140.0
CV-L-P283	579	8.0	PVC	82	0.53	0.09	140.0
CV-L-P435	1,250	8.0	PVC	-18	0.11	0.01	140.0
CV-L-P431	430	8.0	PVC	-9	0.06	0.00	140.0
CV-L-P119	292	8.0	PVC	10	0.07	0.00	140.0
CV-L-P262	135	8.0	PVC	48	0.31	0.01	140.0
CV-L-P9	370	8.0	PVC	46	0.29	0.02	140.0
CV-L-P428	1,105	8.0	PVC	10	0.07	0.00	140.0
CV-H-P88	367	8.0	PVC	45	0.29	0.02	145.0
CV-L-P254	320	8.0	PVC	-130	0.83	0.12	140.0
CV-H-P137	145	6.0	PVC	-25	0.28	0.01	140.0
CV-L-P125	371	12.0	PVC	154	0.44	0.03	140.0
CV-L-P477	960	4.0	PVC	-11	0.28	0.11	140.0
CV-L-P648(1)	227	12.0	PVC	354	1.00	0.07	145.0
CV-L-P124	618	12.0	PVC	158	0.45	0.04	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P602	2,188	8.0	PVC	21	0.14	0.03	140.0
CV-L-P688	471	8.0	PVC	-11	0.07	0.00	140.0
CV-L-P137	290	8.0	PVC	41	0.26	0.01	140.0
CV-L-P458	207	8.0	PVC	23	0.14	0.00	140.0
CV-L-P434	977	8.0	PVC	17	0.11	0.01	140.0
CV-L-P123	219	12.0	PVC	166	0.47	0.02	140.0
CV-H-P33	260	6.0	PVC	21	0.24	0.01	150.0
CV-L-P621	164	8.0	PVC	38	0.24	0.01	140.0
CV-H-P80	650	16.0	PVC	-1,578	2.52	1.87	90.0
CV-L-P253	300	8.0	PVC	138	0.88	0.12	140.0
CV-L-P573	770	8.0	PVC	2	0.01	0.00	140.0
CV-L-P226	253	12.0	PVC	83	0.24	0.01	145.0
CV-L-P17	880	10.0	PVC	368	1.51	0.74	140.0
CV-L-P120	367	8.0	PVC	0	0.00	0.00	140.0
CV-H-P79	580	16.0	PVC	-1,239	1.98	1.06	90.0
CV-H-P118	824	8.0	PVC	-296	1.89	1.29	145.0
CV-L-P284	395	8.0	PVC	69	0.44	0.04	140.0
CV-L-P491	80	8.0	PVC	60	0.38	0.01	140.0
CV-L-P279	324	8.0	PVC	-2	0.01	0.00	140.0
CV-L-P648(2)	256	12.0	PVC	385	1.09	0.09	145.0
CV-L-P103	1,788	8.0	PVC	16	0.10	0.01	140.0
CV-L-P429	913	8.0	PVC	16	0.10	0.01	140.0
CV-L-P689	193	8.0	PVC	-16	0.10	0.00	140.0
CV-H-P24	270	6.0	PVC	-19	0.21	0.01	150.0
CV-L-P222	1,976	12.0	PVC	73	0.21	0.03	140.0
CV-L-P223	933	10.0	PVC	50	0.20	0.02	140.0
CV-L-P224	214	10.0	PVC	50	0.20	0.00	140.0
CV-L-P225	392	10.0	PVC	50	0.20	0.01	140.0
P-31-MV	1,014	3.0	PVC	-4	0.20	0.08	150.0
CV-L-P10	334	8.0	PVC	32	0.20	0.01	140.0
CV-L-P171	1,559	8.0	PVC	-18	0.12	0.01	140.0
CV-L-P259	632	8.0	PVC	-8	0.05	0.00	140.0
CV-L-P133	302	8.0	PVC	31	0.20	0.01	145.0
CV-L-P236	660	8.0	PVC	-131	0.84	0.24	140.0
P-26-L	37	6.0	PVC	17	0.19	0.00	150.0
P-26-MV	42	6.0	PVC	17	0.19	0.00	150.0
CV-L-P490	886	6.0	PVC	174	1.97	2.25	140.0
CV-L-P220	964	12.0	PVC	67	0.19	0.02	120.0
CV-L-P647	259	8.0	PVC	-50	0.32	0.01	145.0
CV-L-P570	505	8.0	PVC	29	0.19	0.01	140.0
CV-H-P143	436	8.0	PVC	29	0.19	0.01	145.0
CV-L-P531	1,265	6.0	PVC	-14	0.16	0.03	140.0
CV-L-P489	1,770	4.0	PVC	35	0.89	1.65	140.0
P-29-MV	984	3.0	PVC	-4	0.18	0.06	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P281	297	8.0	PVC	-47	0.30	0.02	140.0
CV-H-P132	939	6.0	PVC	16	0.18	0.03	140.0
CV-L-P533	247	6.0	PVC	13	0.15	0.01	140.0
CV-L-P620	1,126	8.0	PVC	-27	0.17	0.02	140.0
CV-L-P482	1,769	6.0	PVC	-20	0.22	0.08	140.0
CV-L-P227	1,182	12.0	PVC	59	0.17	0.01	145.0
CV-L- P672(2)	678	12.0	PVC	-59	0.17	0.01	145.0
CV-L- P672(1)	485	12.0	PVC	-59	0.17	0.01	145.0
CV-L-P231	301	10.0	PVC	-508	2.08	0.86	100.0
CV-H-P133	152	6.0	PVC	15	0.16	0.00	140.0
CV-L-P232	660	10.0	PVC	-415	1.69	1.29	100.0
CV-L-P488	1,781	6.0	PVC	72	0.82	0.89	140.0
CV-L-P170	1,408	8.0	PVC	-12	0.08	0.01	140.0
CV-L-P627	419	8.0	PVC	25	0.16	0.01	140.0
CV-L-P105	1,130	8.0	PVC	15	0.10	0.01	140.0
CV-L-P403	228	8.0	PVC	25	0.16	0.00	140.0
CV-H-P108	929	8.0	PVC	25	0.16	0.01	145.0
CV-L-P263	135	8.0	PVC	25	0.16	0.00	140.0
CV-L-P625	960	8.0	PVC	-24	0.15	0.02	140.0
CV-L-P285	454	8.0	PVC	57	0.36	0.04	140.0
CV-L-P280	569	8.0	PVC	10	0.06	0.00	140.0
CV-H-P7	334	8.0	PVC	22	0.14	0.00	140.0
CV-H-P90	460	8.0	PVC	21	0.14	0.01	145.0
CV-L-P104	1,969	8.0	PVC	17	0.11	0.02	140.0
P-11	322	6.0	PVC	11	0.13	0.01	140.0
CV-H-P136	152	6.0	PVC	-11	0.13	0.00	140.0
CV-L-P258	122	8.0	PVC	4	0.02	0.00	140.0
CV-L-P221	927	12.0	PVC	44	0.13	0.01	100.0
CV-L-P461	268	8.0	PVC	20	0.12	0.00	145.0
CV-L-P580	500	8.0	PVC	20	0.12	0.01	140.0
CV-H-P84	923	10.0	PVC	30	0.12	0.01	100.0
CV-L-P178	547	8.0	PVC	19	0.12	0.01	145.0
CV-L-P181	478	10.0	PVC	30	0.12	0.00	140.0
CV-L-P486	1,774	6.0	PVC	41	0.46	0.30	140.0
CV-H-P8	47	8.0	PVC	18	0.11	0.00	140.0
CV-L-P397	441	6.0	PVC	10	0.11	0.01	145.0
CV-L-P687	420	8.0	PVC	-17	0.11	0.00	140.0
CV-L-P282	422	8.0	PVC	-57	0.37	0.03	140.0
CV-L-P532	1,134	6.0	PVC	-10	0.11	0.01	140.0
CV-H157	469	6.0	PVC	96	1.08	0.37	145.0
CV-L-P309	570	8.0	PVC	17	0.11	0.00	145.0
CV-L-P513	1,759	12.0	PVC	39	0.11	0.01	140.0
CV-L-P287	1,262	10.0	PVC	-219	0.89	0.38	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-H-P89	939	8.0	PVC	17	0.11	0.01	145.0
P-100	464	6.0	PVC	9	0.10	0.01	140.0
P-101	436	6.0	PVC	9	0.10	0.00	140.0
CV-L-P522	771	6.0	PVC	-15	0.17	0.02	140.0
CV-H-P22	928	6.0	PVC	9	0.10	0.01	150.0
CV-L- P228(1)	417	10.0	PVC	24	0.10	0.00	145.0
CV-L-P180	601	8.0	PVC	16	0.10	0.00	140.0
CV-H-P109	2,045	8.0	PVC	16	0.10	0.01	145.0
P-20	381	8.0	PVC	16	0.10	0.00	150.0
P-21	193	8.0	Ductile Iron	-316	2.02	0.42	130.0
CV-L-P548	217	8.0	PVC	34	0.21	0.01	140.0
CV-H-P139	759	6.0	PVC	9	0.10	0.01	140.0
CV-L-P296	1,166	12.0	PVC	401	1.14	0.47	140.0
CV-L-P398	136	8.0	PVC	15	0.09	0.00	120.0
CV-L-P433	464	8.0	PVC	5	0.03	0.00	140.0
CV-H-P134	127	6.0	PVC	8	0.09	0.00	140.0
CV-L-P484	1,778	6.0	PVC	0	0.00	0.00	140.0
CV-L-P268	118	8.0	PVC	-12	0.08	0.00	140.0
CV-L-P190	881	8.0	PVC	14	0.09	0.01	140.0
CV-H-P92	715	8.0	PVC	14	0.09	0.00	145.0
CV-H-P54	1,419	8.0	PVC	14	0.09	0.01	150.0
CV-L-P524	973	6.0	PVC	7	0.08	0.01	140.0
CV-L-P464	771	6.0	PVC	8	0.09	0.01	140.0
CV-L-P560	465	12.0	PVC	31	0.09	0.00	140.0
CV-H-P93	1,131	8.0	PVC	13	0.08	0.01	145.0
CV-L-P447	269	12.0	PVC	30	0.08	0.00	140.0
CV-L-P567	436	12.0	PVC	-29	0.08	0.00	140.0
CV-L-P276	386	8.0	PVC	14	0.09	0.00	140.0
CV-L-P186	721	8.0	PVC	13	0.08	0.00	140.0
CV-H-P23	1,037	6.0	PVC	-7	0.08	0.01	150.0
CV-H-P34	659	6.0	PVC	7	0.08	0.00	150.0
CV-L-P139	642	8.0	PVC	13	0.08	0.00	140.0
CV-L-P307	509	8.0	PVC	-66	0.42	0.05	145.0
CV-L-P59	1,385	8.0	PVC	-10	0.06	0.00	140.0
CV-L- P228(2)	639	10.0	PVC	20	0.08	0.00	145.0
CV-L-P527	173	6.0	PVC	-6	0.07	0.00	140.0
CV-L-P184	593	6.0	PVC	7	0.08	0.00	140.0
CV-L-P215	759	6.0	PVC	7	0.08	0.00	140.0
CV-L-P386	380	8.0	PVC	12	0.08	0.00	140.0
CV-L-P361	186	8.0	PVC	12	0.08	0.00	140.0
CV-L-P363	351	8.0	PVC	12	0.08	0.00	140.0
CV-L-P424	393	8.0	PVC	12	0.08	0.00	140.0
CV-L-P371	526	8.0	PVC	12	0.08	0.00	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P372	463	8.0	PVC	12	0.08	0.00	145.0
CV-H-P49	587	8.0	PVC	12	0.08	0.00	150.0
CV-L-P487	1,782	4.0	PVC	18	0.45	0.47	140.0
CV-L-P192	680	8.0	PVC	11	0.07	0.00	140.0
CV-L-P264	135	8.0	PVC	12	0.07	0.00	140.0
CV-L-P191	331	8.0	PVC	11	0.07	0.00	140.0
CV-L-P194	323	8.0	PVC	11	0.07	0.00	140.0
CV-L-P354	317	8.0	PVC	11	0.07	0.00	140.0
CV-H-P53	413	8.0	PVC	11	0.07	0.00	150.0
CV-L-P306	276	12.0	PVC	-90	0.25	0.01	145.0
CV-L-P267	134	8.0	PVC	-9	0.06	0.00	140.0
CV-L-P626	434	8.0	PVC	-10	0.07	0.00	140.0
CV-L-P628	434	8.0	PVC	10	0.07	0.00	140.0
CV-L-P388	462	8.0	PVC	10	0.07	0.00	140.0
CV-L-P389	254	8.0	PVC	10	0.07	0.00	140.0
CV-L-P308	792	8.0	PVC	-55	0.35	0.05	145.0
CV-L-P183	823	6.0	PVC	6	0.06	0.00	140.0
CV-L-P286	493	8.0	PVC	44	0.28	0.02	140.0
CV-L-P213	222	8.0	PVC	10	0.06	0.00	140.0
CV-L-P406	429	8.0	PVC	10	0.06	0.00	140.0
CV-L-P63	655	8.0	PVC	10	0.06	0.00	140.0
CV-L-P351	692	8.0	PVC	10	0.06	0.00	140.0
CV-L-P353	179	8.0	PVC	10	0.06	0.00	140.0
CV-L-P446	199	8.0	PVC	10	0.06	0.00	140.0
CV-L-P448	385	8.0	PVC	10	0.06	0.00	140.0
CV-H-P63	412	8.0	PVC	10	0.06	0.00	150.0
CV-H-P14	45	8.0	PVC	10	0.06	0.00	140.0
CV-H-P119	521	8.0	PVC	10	0.06	0.00	145.0
CV-L-P154	492	8.0	PVC	10	0.06	0.00	140.0
CV-L-P207	584	8.0	PVC	10	0.06	0.00	140.0
CV-L-P322	651	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P536	363	8.0	PVC	10	0.06	0.00	140.0
CV-L-P537	1,173	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P538	302	8.0	PVC	10	0.06	0.00	140.0
CV-L-P541	652	8.0	PVC	10	0.06	0.00	140.0
CV-L-P544	234	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P553	684	8.0	PVC	10	0.06	0.00	140.0
CV-L-P554	1,400	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P556	628	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P563	635	8.0	PVC	10	0.06	0.00	140.0
CV-L-P565	452	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P568	1,339	8.0	PVC	10	0.06	0.00	140.0
CV-L-P571	326	8.0	PVC	10	0.06	0.00	140.0
CV-L-P572	380	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P575	260	8.0	PVC	-10	0.06	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P576	450	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P579	664	8.0	PVC	10	0.06	0.00	140.0
CV-L-P581	497	8.0	PVC	266	1.70	0.64	145.0
CV-L-P584	178	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P590	770	8.0	PVC	10	0.06	0.00	145.0
CV-L-P593	498	8.0	PVC	10	0.06	0.00	140.0
CV-L-P597	145	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P600	187	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P601	228	8.0	PVC	10	0.06	0.00	145.0
CV-L-P604	1,199	8.0	PVC	10	0.06	0.00	140.0
CV-L-P605	332	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P606	110	8.0	PVC	10	0.06	0.00	145.0
CV-L-P611	199	8.0	PVC	10	0.06	0.00	145.0
CV-L-P614	365	8.0	PVC	10	0.06	0.00	140.0
CV-L-P615	233	8.0	PVC	10	0.06	0.00	140.0
CV-L-P616	384	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P617	124	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P618	168	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P624	125	8.0	PVC	10	0.06	0.00	140.0
CV-H-P129	453	8.0	PVC	-10	0.06	0.00	145.0
CV-H-P144	225	8.0	PVC	10	0.06	0.00	145.0
CV-H-P145	367	8.0	PVC	10	0.06	0.00	145.0
CV-H-P147	1,463	8.0	PVC	10	0.06	0.00	145.0
CV-H-P148	416	8.0	PVC	-10	0.06	0.00	145.0
CV-H-P152	187	8.0	PVC	-10	0.06	0.00	145.0
CV-H-P153	144	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P636	663	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P637	506	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P638	761	8.0	PVC	10	0.06	0.00	140.0
CV-L-P639	1,200	8.0	PVC	10	0.06	0.00	145.0
CV-L-P640	221	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P641	233	8.0	PVC	-10	0.06	0.00	140.0
CV-L-P642	111	8.0	PVC	-10	0.06	0.00	145.0
CV-L-P643	329	8.0	PVC	10	0.06	0.00	140.0
CV-L-P644	121	8.0	PVC	10	0.06	0.00	140.0
CV-L-P646	127	8.0	PVC	-10	0.06	0.00	140.0
CV-H-186	627	8.0	PVC	10	0.06	0.00	145.0
CV-H-187	197	8.0	PVC	-10	0.06	0.00	145.0
CV-H-188	147	8.0	PVC	-10	0.06	0.00	140.0
P-5	449	8.0	Ductile Iron	10	0.06	0.00	130.0
CV-H158	110	8.0	PVC	10	0.06	0.00	145.0
CV-L-P514	480	12.0	PVC	22	0.06	0.00	140.0
CV-L-P529	182	6.0	PVC	2	0.02	0.00	140.0
P-24	990	12.0	PVC	-31	0.09	0.00	140.0
CV-L-P697	840	12.0	PVC	21	0.06	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P164	1,003	8.0	PVC	9	0.06	0.00	140.0
CV-L-P385	527	8.0	PVC	-9	0.06	0.00	145.0
CV-L-P629	142	12.0	PVC	20	0.06	0.00	140.0
CV-L-P383	552	8.0	PVC	9	0.06	0.00	145.0
CV-L-P515	124	10.0	PVC	13	0.05	0.00	140.0
CV-L-P430	745	8.0	PVC	5	0.03	0.00	140.0
CV-H-P10	38	8.0	PVC	8	0.05	0.00	140.0
CV-H-P11	99	8.0	PVC	8	0.05	0.00	140.0
CV-H-P9	84	8.0	PVC	8	0.05	0.00	140.0
CV-L-P161	1,029	8.0	PVC	8	0.05	0.00	140.0
CV-L-P657	825	8.0	PVC	-14	0.09	0.00	140.0
CV-L-P483	1,765	4.0	PVC	2	0.05	0.01	140.0
CV-L-P274	258	8.0	PVC	8	0.05	0.00	140.0
P-25-MV	4,263	12.0	PVC	17	0.05	0.00	150.0
CV-L-P297	58	12.0	PVC	83	0.23	0.00	145.0
CV-L-P622	787	8.0	PVC	7	0.05	0.00	140.0
CV-L-P299	120	12.0	PVC	81	0.23	0.00	145.0
CV-L-P174	1,260	8.0	PVC	7	0.04	0.00	140.0
CV-L-P302	191	10.0	PVC	76	0.31	0.01	140.0
CV-H-P64	232	12.0	PVC	15	0.04	0.00	150.0
CV-L-P608	238	10.0	PVC	-10	0.04	0.00	140.0
CV-L-P421(2)	654	10.0	PVC	10	0.04	0.00	145.0
CV-H-P140	742	6.0	PVC	4	0.04	0.00	140.0
CV-L-P463	416	6.0	PVC	3	0.04	0.00	140.0
CV-L-P304	1,315	10.0	PVC	-75	0.31	0.06	140.0
CV-L-P305	333	10.0	PVC	-75	0.31	0.01	140.0
CV-L-P290	144	8.0	PVC	9	0.06	0.00	140.0
CV-L-P485	1,766	4.0	PVC	8	0.20	0.11	140.0
CV-L-P300	111	12.0	PVC	79	0.22	0.00	145.0
CV-L-P623	142	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P162	1,040	8.0	PVC	6	0.04	0.00	140.0
CV-L-P169	999	8.0	PVC	6	0.04	0.00	140.0
CV-L-P340	402	8.0	PVC	-6	0.04	0.00	140.0
CV-L-P355	516	8.0	PVC	17	0.11	0.00	140.0
CV-L-P530	272	6.0	PVC	5	0.06	0.00	140.0
CV-L-P683	409	8.0	PVC	24	0.15	0.01	140.0
CV-L-P278	484	8.0	PVC	25	0.16	0.01	140.0
CV-L-P271	239	8.0	PVC	3	0.02	0.00	140.0
P-10	1,032	12.0	PVC	11	0.03	0.00	140.0
CV-L-P396	271	8.0	PVC	5	0.03	0.00	145.0
CV-L-P399	199	8.0	PVC	5	0.03	0.00	140.0
CV-L-P401	431	8.0	PVC	5	0.03	0.00	140.0
CV-L-P441	189	8.0	PVC	5	0.03	0.00	140.0
CV-H-P50	501	16.0	PVC	19	0.03	0.00	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-10	1,836	8.0	PVC	-5	0.03	0.00	140.0
P-9	1,056	8.0	PVC	-5	0.03	0.00	140.0
CV-L-P511	266	4.0	PVC	1	0.03	0.00	145.0
P-14	206	4.0	PVC	1	0.03	0.00	140.0
P-17	134	4.0	PVC	-1	0.03	0.00	140.0
CV-L-P166	1,273	8.0	PVC	5	0.03	0.00	140.0
CV-H-P12	56	8.0	PVC	5	0.03	0.00	140.0
CV-H-P28	400	6.0	PVC	3	0.03	0.00	150.0
CV-L-P79	597	8.0	PVC	5	0.03	0.00	140.0
CV-L-P187	547	8.0	PVC	5	0.03	0.00	140.0
CV-L-P239	258	8.0	PVC	5	0.03	0.00	140.0
CV-L-P241	258	8.0	PVC	5	0.03	0.00	140.0
CV-L-P243	258	8.0	PVC	5	0.03	0.00	140.0
CV-L-P245	258	8.0	PVC	5	0.03	0.00	140.0
CV-L-P246	222	8.0	PVC	5	0.03	0.00	140.0
CV-L-P248	258	8.0	PVC	5	0.03	0.00	140.0
CV-L-P249	222	8.0	PVC	5	0.03	0.00	140.0
CV-L-P251	258	8.0	PVC	5	0.03	0.00	140.0
CV-L-P252	222	8.0	PVC	5	0.03	0.00	140.0
CV-L-P449	170	12.0	PVC	10	0.03	0.00	140.0
CV-L-P551	266	12.0	PVC	-10	0.03	0.00	140.0
CV-L-P566	225	12.0	PVC	-10	0.03	0.00	140.0
CV-L-P596	127	12.0	PVC	10	0.03	0.00	140.0
CV-L-P610	368	12.0	PVC	10	0.03	0.00	140.0
CV-H-P131	182	12.0	PVC	-10	0.03	0.00	145.0
CV-L-P635	479	12.0	PVC	-10	0.03	0.00	145.0
CV-H159	1,646	12.0	PVC	-10	0.03	0.00	145.0
CV-L-P598	906	12.0	PVC	-10	0.03	0.00	140.0
CV-L-P609	139	12.0	PVC	-10	0.03	0.00	140.0
CV-L-P547	291	8.0	PVC	14	0.09	0.00	140.0
CV-H-P37	129	6.0	PVC	2	0.03	0.00	150.0
CV-L-P277	402	8.0	PVC	5	0.03	0.00	140.0
CV-L-P64	1,330	8.0	PVC	-66	0.42	0.14	140.0
CV-L-P157	1,187	8.0	PVC	3	0.02	0.00	140.0
CV-L-P163	1,007	8.0	PVC	3	0.02	0.00	140.0
CV-L-P165	1,040	8.0	PVC	3	0.02	0.00	140.0
CV-L-P216	775	8.0	PVC	3	0.02	0.00	140.0
CV-L-P432	591	8.0	PVC	3	0.02	0.00	140.0
CV-H-P51	481	8.0	PVC	3	0.02	0.00	150.0
CV-H-P91	1,019	8.0	PVC	3	0.02	0.00	145.0
CV-L-P265	166	8.0	PVC	4	0.02	0.00	140.0
CV-L-P421(1)	147	10.0	PVC	5	0.02	0.00	145.0
CV-L-P266	287	8.0	PVC	-2	0.02	0.00	140.0
CV-L-P177	859	14.0	PVC	8	0.02	0.00	145.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
CV-L-P525	1,308	6.0	PVC	-2	0.02	0.00	140.0
CV-H-P146	687	16.0	PVC	-10	0.02	0.00	145.0
CV-L-P156	702	8.0	PVC	-2	0.02	0.00	140.0
CV-L-P289	237	8.0	PVC	13	0.08	0.00	140.0
CV-L-P456	204	8.0	PVC	2	0.01	0.00	140.0
CV-L-P237	349	8.0	PVC	2	0.01	0.00	140.0
CV-L-P370	511	8.0	PVC	2	0.01	0.00	100.0
CV-L-P412	476	8.0	PVC	2	0.01	0.00	140.0
CV-L-P455	586	8.0	PVC	2	0.01	0.00	140.0
CV-L-P517	717	8.0	PVC	2	0.01	0.00	140.0
CV-L-P275	135	8.0	PVC	3	0.02	0.00	140.0
CV-L-P112	273	8.0	PVC	87	0.56	0.05	140.0
CV-L-P56	1,678	12.0	PVC	5	0.01	0.00	140.0
CV-L-P155	759	8.0	PVC	-2	0.01	0.00	100.0
CV-L-P528	272	6.0	PVC	-2	0.03	0.00	140.0
CV-L-P269	174	8.0	PVC	-12	0.08	0.00	140.0
CV-L-P392	451	10.0	PVC	3	0.01	0.00	145.0
CV-L-P273	140	8.0	PVC	-1	0.00	0.00	140.0
P-28-MV	87	3.0	PVC	0	0.01	0.00	150.0
CV-L-P301	136	10.0	PVC	2	0.01	0.00	140.0
CV-L-P160	1,478	8.0	PVC	1	0.01	0.00	140.0
CV-H-P30	775	6.0	PVC	1	0.01	0.00	150.0
CV-L-P303	191	12.0	PVC	3	0.01	0.00	145.0
CV-H-P141	741	6.0	PVC	1	0.01	0.00	140.0
CV-H-P135	982	6.0	PVC	-1	0.01	0.00	140.0
CV-L-P193	492	8.0	PVC	1	0.01	0.00	140.0
CV-L-P408	200	8.0	PVC	1	0.01	0.00	140.0
CV-L-P182	845	8.0	PVC	1	0.01	0.00	140.0
CV-L-P369	341	8.0	PVC	1	0.01	0.00	140.0
CV-L-P380	255	8.0	PVC	1	0.01	0.00	145.0
CV-L-P419	623	8.0	PVC	1	0.01	0.00	140.0
CV-L-P420	1,011	8.0	PVC	1	0.01	0.00	140.0
CV-L-P453	141	8.0	PVC	1	0.01	0.00	140.0
CV-H-P47	549	8.0	PVC	1	0.01	0.00	150.0
CV-H-P52	205	8.0	PVC	1	0.01	0.00	150.0
CV-L-P411	143	8.0	PVC	1	0.01	0.00	140.0
CV-L-P272	265	8.0	PVC	1	0.01	0.00	140.0
CV-L-P384	583	8.0	PVC	1	0.01	0.00	145.0
CV-L-P407	434	8.0	PVC	1	0.01	0.00	145.0
CV-L-P167	1,011	8.0	PVC	1	0.01	0.00	140.0
CV-L-P188	812	8.0	PVC	1	0.01	0.00	145.0
CV-L-P375	312	8.0	PVC	1	0.01	0.00	145.0
CV-L-P526	550	6.0	PVC	-1	0.01	0.00	140.0
CV-L-P298	226	12.0	PVC	1	0.00	0.00	145.0
CV-H-P29	514	6.0	PVC	0	0.00	0.00	150.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-15	32	12.0	PVC	1	0.00	0.00	140.0
CV-L-P357	525	12.0	PVC	1	0.00	0.00	140.0
CV-L-P376	141	8.0	PVC	0	0.00	0.00	145.0
CV-L-P387	375	8.0	PVC	0	0.00	0.00	140.0
CV-L-P270	139	8.0	PVC	-19	0.12	0.00	140.0
CV-H-P69	270	8.0	PVC	-24	0.16	0.00	150.0
CV-H-P39	277	12.0	PVC	-24	0.07	0.00	150.0
CV-H-P68	436	12.0	PVC	-24	0.07	0.00	150.0
CV-H-P32	445	12.0	PVC	-62	0.17	0.01	145.0
P-63	277	8.0	Ductile Iron	0	0.00	0.00	130.0
P-5(1)	310	8.0	PVC	0	0.00	0.00	140.0
CV-L-P437	192	8.0	PVC	0	0.00	0.00	140.0
P-61	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-57	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-62	317	8.0	Ductile Iron	0	0.00	0.00	130.0
P-60	784	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-H-P15	142	8.0	PVC	0	0.00	0.00	140.0
CV-L-P508	1,741	10.0	PVC	0	0.00	0.00	140.0
CV-L-P509	483	10.0	PVC	0	0.00	0.00	140.0
CV-H-P27	1,043	12.0	PVC	-86	0.24	0.02	140.0
CV-L-P325	587	12.0	PVC	0	0.00	0.00	100.0
P-16	596	12.0	PVC	0	0.00	0.00	140.0
CV-L-P656	845	12.0	PVC	0	0.00	0.00	100.0
CV-L-P323	1,064	12.0	PVC	0	0.00	0.00	100.0
CV-L-P658	190	12.0	PVC	0	0.00	0.00	100.0
CV-L-P661	218	8.0	PVC	0	0.00	0.00	100.0
CV-L-P660	160	8.0	PVC	0	0.00	0.00	100.0
P-70	79	8.0	PVC	0	0.00	0.00	140.0
CV-L-P666	254	8.0	PVC	0	0.00	0.00	140.0
CV-L-P667	333	8.0	PVC	0	0.00	0.00	140.0
P-69	1,385	8.0	PVC	0	0.00	0.00	140.0
P-71	304	8.0	PVC	0	0.00	0.00	140.0
CV-L-P326	78	8.0	PVC	0	0.00	0.00	145.0
CV-L-P436	254	8.0	PVC	0	0.00	0.00	140.0
P-15	320	8.0	PVC	0	0.00	0.00	140.0
CV-H-P5	119	6.0	PVC	0	0.00	0.00	140.0
P-6(1)	330	12.0	PVC	0	0.00	0.00	140.0
CV-H-P17	210	8.0	PVC	0	0.00	0.00	140.0
CV-L-P390	798	8.0	PVC	0	0.00	0.00	140.0
P-67	784	8.0	Ductile Iron	0	0.00	0.00	130.0
P-8	427	8.0	PVC	0	0.00	0.00	140.0
P-7(1)	149	8.0	PVC	0	0.00	0.00	140.0
P-5(2)	467	8.0	PVC	0	0.00	0.00	140.0
P-14	808	8.0	PVC	0	0.00	0.00	140.0
P-64	278	8.0	Ductile Iron	0	0.00	0.00	130.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-6(2)	483	12.0	PVC	0	0.00	0.00	140.0
CV-L-P391	1,035	8.0	PVC	0	0.00	0.00	140.0
P-68	321	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-H-P19	142	8.0	PVC	0	0.00	0.00	140.0
CV-L-P179	786	8.0	PVC	0	0.00	0.00	145.0
CV-H-P60	1,791	8.0	PVC	0	0.00	0.00	140.0
CV-L-P516	202	4.0	PVC	0	0.00	0.00	140.0
P-7(2)	354	8.0	PVC	0	0.00	0.00	140.0
CV-L-P138	863	8.0	PVC	0	0.00	0.00	140.0
P-66	317	8.0	Ductile Iron	0	0.00	0.00	130.0
P-2	1,006	8.0	PVC	0	0.00	0.00	140.0
CV-L-P159	1,265	8.0	PVC	0	0.00	0.00	140.0
CV-H-P113	1,029	8.0	PVC	0	0.00	0.00	140.0
P-12	1,189	6.0	PVC	0	0.00	0.00	140.0
P-65	784	8.0	Ductile Iron	0	0.00	0.00	130.0
CV-L-P662	323	12.0	PVC	0	0.00	0.00	140.0
CV-L-P663	272	12.0	PVC	0	0.00	0.00	140.0
P-1	1,067	2.0	PVC	0	0.00	0.00	140.0
CV-L-P65	1,370	8.0	PVC	-69	0.44	0.15	140.0
P-19	153	8.0	PVC	331	2.12	0.28	150.0
P-23	551	6.0	Ductile Iron	86	0.97	0.43	130.0
P-24	714	12.0	Ductile Iron	-86	0.24	0.02	130.0
P-25	916	12.0	Ductile Iron	-86	0.24	0.02	130.0
P-28	930	12.0	Ductile Iron	0	0.00	0.00	130.0
P-29	1,362	6.0	Ductile Iron	-36	0.41	0.21	130.0
P-30	323	6.0	Ductile Iron	-36	0.41	0.05	130.0
P-31	352	6.0	Ductile Iron	-51	0.58	0.11	130.0
P-32	335	6.0	Ductile Iron	-86	0.97	0.26	130.0
P-33	174	6.0	Ductile Iron	-86	0.97	0.14	130.0
P-34	185	6.0	Ductile Iron	-86	0.97	0.15	130.0
P-35	836	6.0	Ductile Iron	35	0.39	0.12	130.0
P-36	509	6.0	Ductile Iron	-15	0.17	0.02	130.0
P-37	847	12.0	Ductile Iron	-86	0.24	0.02	130.0
P-38	331	12.0	Ductile Iron	-36	0.10	0.00	130.0
P-39	849	6.0	Ductile Iron	50	0.57	0.25	130.0
P-40	127	6.0	Ductile Iron	0	0.00	0.00	130.0
P-76	3,808	12.0	PVC	-367	1.04	1.31	140.0
P-93	397	10.0	Ductile Iron	-67	0.27	0.02	130.0
P-96	318	8.0	Ductile Iron	276	1.76	0.54	130.0
P-97	239	8.0	Ductile Iron	276	1.76	0.40	130.0
P-98	1,069	8.0	Ductile Iron	276	1.76	1.80	130.0
P-99	317	8.0	Ductile Iron	276	1.76	0.53	130.0
P-102	709	6.0	PVC	-69	0.78	0.32	140.0
P-103	747	12.0	PVC	0	0.00	0.00	140.0
P-104	1,623	12.0	PVC	0	0.00	0.00	140.0

GBWC-PD 2024 IRP - Calvada Valley System
Preferred (2044) PHD Condition Distribution System Pipe Report
PHD Pipe - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Material	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-133	1,819	8.0	PVC	-586	3.74	10.75	140.0
P-32-MV	111	3.0	Ductile Iron	(N/A)	(N/A)	(N/A)	130.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-134	2,756.00	CVE	0.00	2,826.02	30.3
J-4	2,807.80	CVE	1.61	2,898.04	39.0
J-44	2,728.00	CVE	0.81	2,826.02	42.4
J-3	2,803.00	CVE	0.00	2,901.44	42.6
J-60	2,681.60	CN	0.00	2,782.21	43.5
J-136	2,724.00	CVE	0.00	2,826.02	44.1
J-135	2,723.00	CVE	0.00	2,826.02	44.6
J-137	2,723.00	CVE	0.00	2,826.02	44.6
J-43	2,721.20	CVE	0.41	2,826.02	45.3
J-45	2,719.50	CVE	1.21	2,826.02	46.1
J-61	2,675.40	CN	0.00	2,782.21	46.2
J-59	2,675.20	CN	0.00	2,782.21	46.3
J-20	2,739.50	CVE	2.42	2,852.54	48.9
J-57	2,668.00	CN	0.00	2,782.21	49.4
J-62	2,711.70	CVE	0.00	2,826.02	49.5
J-56	2,667.80	CN	1.22	2,782.21	49.5
J-55	2,667.30	CN	0.00	2,782.21	49.7
J-5	2,743.10	CVE	4.44	2,858.78	50.1
J-46	2,665.60	CN	0.00	2,782.21	50.5
J-54	2,665.30	CN	0.00	2,782.21	50.6
J-47	2,664.50	CN	0.00	2,782.21	50.9
J-42	2,707.00	CVE	2.01	2,826.02	51.5
J-53	2,662.30	CN	0.00	2,782.21	51.9
J-52	2,661.40	CN	0.00	2,782.21	52.3
J-18	2,729.60	CVE	2.42	2,852.54	53.2
J-29	2,726.70	CVE	2.42	2,849.63	53.2
J-21	2,723.10	CVE	1.61	2,850.23	55.0
J-28	2,749.60	CVE	2.82	2,876.57	54.9
J-51	2,654.70	CN	0.41	2,782.21	55.2
J-58	2,654.00	CN	0.00	2,782.21	55.5
J-73	2,653.90	CN	0.41	2,782.21	55.5
J-76	2,653.60	CN	0.00	2,782.21	55.6
J-69	2,653.10	CN	0.41	2,782.21	55.9
J-72	2,652.40	CN	0.00	2,782.21	56.2
J-68	2,652.20	CN	0.00	2,782.21	56.2
J-66	2,652.00	CN	1.61	2,782.21	56.3
J-67	2,652.00	CN	0.00	2,782.21	56.3
J-48	2,652.00	CN	10.21	2,782.21	56.3
J-71	2,651.70	CN	0.00	2,782.21	56.5
J-74	2,651.50	CN	0.41	2,782.21	56.6
J-138	2,695.00	CVE	0.00	2,826.02	56.7
J-75	2,650.50	CN	0.41	2,782.21	57.0
J-64	2,650.20	CN	0.41	2,782.21	57.1
J-70	2,649.40	CN	1.22	2,782.21	57.5
J-19	2,717.20	CVE	1.21	2,850.87	57.8

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-65	2,648.80	CN	0.81	2,782.21	57.7
J-34	2,692.00	CVE	0.00	2,826.02	58.0
J-26	2,755.90	CVE	2.01	2,890.68	58.3
J-16	2,714.20	CVE	2.01	2,850.28	58.9
J-30	2,709.90	CVE	1.61	2,846.32	59.0
J-17	2,713.50	CVE	2.42	2,850.23	59.2
J-50	2,645.80	CN	1.61	2,782.21	59.0
J-63	2,644.70	CN	0.00	2,782.21	59.5
J-32	2,686.00	CVE	0.00	2,826.02	60.6
J-6	2,709.00	CVE	3.22	2,849.66	60.9
J-14	2,709.00	CVE	1.61	2,849.90	61.0
J-15	2,708.60	CVE	2.42	2,850.28	61.3
J-41	2,684.00	CVE	1.21	2,826.02	61.4
J-49	2,640.20	CN	0.41	2,782.21	61.4
J-130	2,639.80	CN	0.00	2,782.21	61.6
J-131	2,639.80	CN	0.00	2,782.21	61.6
J-90	2,687.00	CVE	0.81	2,829.68	61.7
J-132	2,639.60	CN	0.41	2,782.21	61.7
J-94	2,639.40	CN	0.00	2,782.21	61.8
J-33	2,683.00	CVE	0.00	2,826.02	61.9
J-88	2,702.00	CVE	1.61	2,845.43	62.1
J-129	2,638.80	CN	0.00	2,782.21	62.0
J-77	2,701.00	CVE	1.21	2,844.88	62.2
J-89	2,701.00	CVE	0.81	2,845.03	62.3
J-35	2,682.00	CVE	0.00	2,826.02	62.3
J-128	2,637.50	CN	0.00	2,782.21	62.6
J-31	2,688.00	CVE	0.81	2,833.17	62.8
J-22	2,700.00	CVE	1.61	2,846.12	63.2
J-87	2,689.00	CVE	0.41	2,835.02	63.2
J-95	2,636.40	CN	0.00	2,782.21	63.1
J-7	2,702.00	CVE	1.61	2,848.72	63.5
J-13	2,702.70	CVE	0.81	2,849.90	63.7
J-78	2,701.70	CVE	2.42	2,850.62	64.4
J-127	2,633.10	CN	0.81	2,782.21	64.5
J-96	2,631.80	CN	0.00	2,782.21	65.1
J-25	2,694.30	CVE	0.41	2,845.39	65.4
J-97	2,631.30	CN	0.00	2,782.21	65.3
J-36	2,675.00	CVE	0.00	2,826.02	65.3
J-100	2,631.00	CN	0.00	2,782.21	65.4
J-23	2,694.30	CVE	0.81	2,846.24	65.7
J-10	2,697.10	CVE	2.01	2,849.51	65.9
J-24	2,692.90	CVE	0.41	2,845.37	66.0
J-126	2,628.50	CN	0.00	2,782.21	66.5
J-91	2,690.00	CVE	0.41	2,844.29	66.8
J-37	2,671.00	CVE	0.00	2,826.02	67.1

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-98	2,626.90	CN	0.00	2,782.21	67.2
J-123	2,626.60	CN	0.00	2,782.21	67.3
J-12	2,690.30	CVE	5.63	2,846.54	67.6
J-99	2,626.40	CN	0.00	2,782.21	67.4
J-121	2,625.90	CN	0.00	2,782.21	67.6
J-133	2,685.00	CVE	0.00	2,843.06	68.4
J-101	2,624.40	CN	0.41	2,782.21	68.3
J-11	2,690.30	CVE	3.22	2,848.73	68.5
J-124	2,624.30	CN	0.00	2,782.21	68.3
J-102	2,624.00	CN	0.00	2,782.21	68.4
J-40	2,667.60	CN	0.41	2,826.02	68.5
J-122	2,622.90	CN	0.00	2,782.21	68.9
J-116	2,622.60	CN	0.00	2,782.21	69.1
J-39	2,666.00	CVE	0.00	2,826.02	69.2
J-120	2,622.20	CN	0.00	2,782.21	69.2
J-117	2,622.10	CN	0.00	2,782.21	69.3
J-27	2,730.00	CVE	0.81	2,890.68	69.5
J-107	2,621.30	CN	0.00	2,782.21	69.6
J-118	2,621.30	CN	0.00	2,782.21	69.6
J-103	2,620.90	CN	0.00	2,782.21	69.8
J-108	2,620.50	CN	0.81	2,782.21	70.0
J-119	2,620.30	CN	0.00	2,782.21	70.0
J-38	2,664.00	CVE	0.00	2,826.02	70.1
J-115	2,620.00	CN	0.00	2,782.21	70.2
J-111	2,619.50	CN	0.00	2,782.21	70.4
J-106	2,619.30	CN	0.00	2,782.21	70.5
J-104	2,618.70	CN	0.00	2,782.21	70.7
J-114	2,617.80	CN	0.00	2,782.21	71.1
J-105	2,617.70	CN	0.81	2,782.21	71.2
J-109	2,617.70	CN	0.00	2,782.21	71.2
J-110	2,617.60	CN	0.00	2,782.21	71.2
J-112	2,616.20	CN	0.00	2,782.21	71.8
J-113	2,615.30	CN	0.41	2,782.21	72.2
J-9	2,676.00	CVE	0.41	2,843.52	72.5
J-8	2,676.00	CVE	3.62	2,846.31	73.7
J-86	2,720.00	CVE	0.41	2,890.68	73.8
J-92	2,672.00	CVE	3.22	2,843.81	74.3
J-93	2,664.00	CVE	0.17	2,843.06	77.5

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-130	CN	1,000.00	0.00	1,500.00	1,049.21	False	-18.9	-15.0	J-131
J-131	CN	1,000.00	0.00	1,500.00	1,061.45	False	-17.2	-15.0	J-130
J-129	CN	1,000.00	0.00	1,500.00	1,077.76	False	-14.5	-15.0	J-131
J-132	CN	1,000.00	0.41	1,500.41	1,090.03	False	-13.5	-10.7	J-131
J-128	CN	1,000.00	0.00	1,500.00	1,111.51	False	-9.7	-10.7	J-131
J-127	CN	1,000.00	0.81	1,500.80	1,151.27	False	-3.4	-6.3	J-131
J-126	CN	1,000.00	0.00	1,500.00	1,193.03	False	3.0	-1.9	J-131
J-124	CN	1,000.00	0.00	1,500.00	1,241.94	False	9.4	2.7	J-131
J-123	CN	1,000.00	0.00	1,500.00	1,250.68	False	1.1	5.5	J-131
J-121	CN	1,000.00	0.00	1,500.00	1,262.93	False	2.2	6.8	J-130
J-122	CN	1,000.00	0.00	1,500.00	1,276.03	False	12.9	5.5	J-130
J-120	CN	1,000.00	0.00	1,500.00	1,292.34	False	14.5	6.8	J-130
J-60	CN	1,000.00	0.00	1,500.00	1,741.53	True	25.7	29.7	J-61
J-59	CN	1,000.00	0.00	1,500.00	1,819.79	True	29.8	27.0	J-60
J-55	CN	1,000.00	0.00	1,500.00	1,862.28	True	33.9	27.7	J-60
J-58	CN	1,000.00	0.00	1,500.00	1,877.69	True	35.7	28.0	J-60
J-57	CN	1,000.00	0.00	1,500.00	1,877.68	True	31.7	28.0	J-60
J-54	CN	1,000.00	0.00	1,500.00	1,877.69	True	35.0	28.0	J-60
J-53	CN	1,000.00	0.00	1,500.00	1,901.57	True	36.7	28.3	J-60
J-52	CN	1,000.00	0.00	1,500.00	2,013.34	True	38.6	29.8	J-60

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-51	CN	1,000.00	0.41	1,500.41	2,186.53	True	43.4	31.8	J-60
J-75	CN	1,000.00	0.41	1,500.41	2,350.19	True	46.7	33.2	J-60
J-72	CN	1,000.00	0.00	1,500.00	2,381.93	True	43.1	33.5	J-60
J-71	CN	1,000.00	0.00	1,500.00	2,388.26	True	43.4	33.5	J-60
J-70	CN	1,000.00	1.22	1,501.22	2,405.90	True	47.6	33.6	J-60
J-50	CN	1,000.00	1.61	1,501.61	2,670.78	True	50.9	35.4	J-60
J-63	CN	1,000.00	0.00	1,500.00	2,770.12	True	51.9	35.9	J-60
J-119	CN	1,000.00	0.00	1,500.00	1,323.75	False	15.4	9.2	J-130
J-33	CVE	1,000.00	0.00	1,500.00	3,000.00	True	60.8	41.3	J-44
J-38	CVE	1,000.00	0.00	1,500.00	3,000.00	True	68.3	40.8	J-44
J-40	CN	1,000.00	0.41	1,500.41	3,000.41	True	66.4	40.5	J-44
J-135	CVE	0.00	0.00	1,500.00	3,000.00	True	41.9	27.9	J-134
J-137	CVE	0.00	0.00	1,500.00	3,000.00	True	42.1	28.2	J-134
J-134	CVE	0.00	0.00	1,500.00	3,000.00	True	27.4	42.0	J-136
J-35	CVE	1,000.00	0.00	1,500.00	3,000.00	True	60.8	40.9	J-44
J-36	CVE	1,000.00	0.00	1,500.00	3,000.00	True	63.7	40.9	J-44
J-37	CVE	1,000.00	0.00	1,500.00	3,000.00	True	65.4	40.8	J-44
J-43	CVE	1,000.00	0.41	1,500.41	3,000.41	True	42.5	39.6	J-44
J-42	CVE	1,000.00	2.01	1,502.01	3,002.01	True	48.7	39.6	J-44
J-45	CVE	1,000.00	1.21	1,501.21	3,001.21	True	42.1	38.9	J-44
J-138	CVE	0.00	0.00	1,500.00	3,000.00	True	55.1	28.8	J-134
J-41	CVE	1,000.00	1.21	1,501.21	3,001.21	True	58.9	40.1	J-44

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-136	CVE	0.00	0.00	1,500.00	3,000.00	True	41.6	28.1	J-134
J-34	CVE	1,000.00	0.00	1,500.00	3,000.00	True	56.6	41.0	J-44
J-39	CVE	1,000.00	0.00	1,500.00	3,000.00	True	67.1	40.5	J-44
J-44	CVE	1,000.00	0.81	1,500.81	3,000.81	True	38.5	42.5	J-43
J-62	CVE	1,000.00	0.00	1,500.00	3,000.00	True	46.6	39.6	J-44
J-32	CVE	1,000.00	0.00	1,500.00	3,000.00	True	59.6	41.4	J-44
J-118	CN	1,000.00	0.00	1,500.00	1,323.83	False	17.2	9.2	J-131
J-48	CN	1,000.00	10.21	1,510.21	3,010.21	True	53.0	40.2	J-60
J-46	CN	1,000.00	0.00	1,500.00	3,000.00	True	50.3	40.5	J-44
J-49	CN	1,000.00	0.41	1,500.41	3,000.41	True	56.0	38.1	J-60
J-47	CN	1,000.00	0.00	1,500.00	3,000.00	True	48.5	40.5	J-44
J-117	CN	1,000.00	0.00	1,500.00	1,363.38	False	19.7	12.0	J-130
J-116	CN	1,000.00	0.00	1,500.00	1,385.67	False	20.9	13.5	J-130
J-115	CN	1,000.00	0.00	1,500.00	1,490.20	False	28.1	19.5	J-130
J-112	CN	1,000.00	0.00	1,500.00	1,502.16	True	29.6	20.1	J-130
J-113	CN	1,000.00	0.41	1,500.41	1,503.76	True	29.6	20.2	J-130
J-111	CN	1,000.00	0.00	1,500.00	1,504.73	True	28.0	20.2	J-130
J-114	CN	1,000.00	0.00	1,500.00	1,506.17	True	28.3	20.3	J-130
J-110	CN	1,000.00	0.00	1,500.00	1,507.17	True	28.8	20.4	J-131
J-108	CN	1,000.00	0.81	1,500.80	1,508.29	True	27.1	20.4	J-131

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-109	CN	1,000.00	0.00	1,500.00	1,509.06	True	29.0	20.5	J-130
J-107	CN	1,000.00	0.00	1,500.00	1,509.50	True	26.0	20.5	J-130
J-105	CN	1,000.00	0.81	1,500.80	1,512.30	True	29.2	20.6	J-130
J-106	CN	1,000.00	0.00	1,500.00	1,512.53	True	28.0	20.6	J-131
J-104	CN	1,000.00	0.00	1,500.00	1,513.58	True	28.8	20.7	J-131
J-103	CN	1,000.00	0.00	1,500.00	1,515.22	True	28.3	20.8	J-130
J-100	CN	1,000.00	0.00	1,500.00	1,520.80	True	21.1	26.1	J-130
J-102	CN	1,000.00	0.00	1,500.00	1,524.93	True	28.1	21.3	J-131
J-101	CN	1,000.00	0.41	1,500.41	1,535.11	True	28.4	21.7	J-130
J-133	CVE	1,000.00	0.00	1,500.00	3,000.00	True	58.6	41.4	J-44
J-31	CVE	1,000.00	0.81	1,500.81	3,000.81	True	58.7	37.6	J-4
J-88	CVE	1,000.00	1.61	1,501.61	3,001.61	True	51.5	35.2	J-4
J-24	CVE	1,000.00	0.41	1,500.41	3,000.41	True	55.7	35.2	J-4
J-74	CN	1,000.00	0.41	1,500.41	2,371.69	True	44.3	33.4	J-60
J-90	CVE	1,000.00	0.81	1,500.81	3,000.81	True	59.1	38.1	J-4
J-25	CVE	1,000.00	0.41	1,500.41	3,000.41	True	54.8	35.2	J-4
J-89	CVE	1,000.00	0.81	1,500.81	3,000.81	True	51.5	35.3	J-4
J-20	CVE	1,000.00	2.42	1,502.42	1,873.54	True	27.4	33.3	J-4
J-99	CN	1,000.00	0.00	1,500.00	1,633.63	True	31.9	26.1	J-130
J-19	CVE	1,000.00	1.21	1,501.21	2,096.12	True	34.6	32.2	J-20

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-56	CN	1,000.00	1.22	1,501.22	1,659.26	True	25.0	27.7	J-60
J-18	CVE	1,000.00	2.42	1,502.42	2,009.39	True	33.5	29.2	J-20
J-98	CN	1,000.00	0.00	1,500.00	1,666.89	True	33.0	27.4	J-130
J-78	CVE	1,000.00	2.42	1,502.42	2,234.00	True	42.5	32.6	J-20
J-77	CVE	1,000.00	1.21	1,501.21	3,001.21	True	51.6	35.4	J-4
J-61	CN	1,000.00	0.00	1,500.00	1,733.94	True	26.1	27.0	J-60
J-8	CVE	1,000.00	3.62	1,503.62	1,893.96	True	36.8	34.7	J-4
J-91	CVE	1,000.00	0.41	1,500.41	3,000.41	True	56.5	35.5	J-4
J-3	CVE	1,000.00	0.00	1,500.00	1,317.35	False	20.0	17.4	J-4
J-10	CVE	1,000.00	2.01	1,502.01	2,436.30	True	43.6	34.0	J-4
J-29	CVE	1,000.00	2.42	1,502.42	2,817.22	True	39.4	34.5	J-4
J-16	CVE	1,000.00	2.01	1,502.01	1,719.01	True	27.1	33.4	J-15
J-14	CVE	1,000.00	1.61	1,501.61	1,816.54	True	30.2	34.0	J-4
J-13	CVE	1,000.00	0.81	1,500.81	1,895.60	True	34.9	32.2	J-14
J-6	CVE	1,000.00	3.22	1,503.22	2,197.37	True	37.5	33.8	J-4
J-5	CVE	1,000.00	4.44	1,504.44	2,030.31	True	29.9	31.9	J-4
J-95	CN	1,000.00	0.00	1,500.00	2,948.23	True	51.1	38.1	J-60
J-94	CN	1,000.00	0.00	1,500.00	3,000.00	True	55.1	38.1	J-60
J-17	CVE	1,000.00	2.42	1,502.42	2,351.69	True	40.9	33.0	J-20
J-15	CVE	1,000.00	2.42	1,502.42	1,872.51	True	33.4	30.9	J-16

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-21	CVE	1,000.00	1.61	1,501.61	1,970.30	True	31.4	33.0	J-20
J-30	CVE	1,000.00	1.61	1,501.61	3,001.61	True	45.8	35.0	J-4
J-97	CN	1,000.00	0.00	1,500.00	1,984.63	True	40.5	36.8	J-130
J-87	CVE	1,000.00	0.41	1,500.41	3,000.41	True	57.4	37.2	J-4
J-12	CVE	1,000.00	5.63	1,505.63	2,735.53	True	48.3	34.7	J-4
J-69	CN	1,000.00	0.41	1,500.41	2,018.94	True	35.1	35.4	J-60
J-96	CN	1,000.00	0.00	1,500.00	2,089.07	True	42.5	38.1	J-60
J-22	CVE	1,000.00	1.61	1,501.61	3,001.61	True	51.8	35.0	J-4
J-66	CN	1,000.00	1.61	1,501.61	2,120.74	True	37.1	35.4	J-60
J-68	CN	1,000.00	0.00	1,500.00	2,159.91	True	37.7	35.4	J-60
J-7	CVE	1,000.00	1.61	1,501.61	1,861.35	True	32.1	34.1	J-4
J-76	CN	1,000.00	0.00	1,500.00	2,214.62	True	38.3	33.4	J-60
J-64	CN	1,000.00	0.41	1,500.41	2,221.92	True	39.1	35.9	J-60
J-28	CVE	1,000.00	2.82	1,502.81	1,875.76	True	28.0	29.4	J-4
J-9	CVE	1,000.00	0.41	1,500.41	2,925.57	True	54.3	35.4	J-4
J-11	CVE	1,000.00	3.22	1,503.22	2,191.78	True	41.2	34.2	J-4
J-67	CN	1,000.00	0.00	1,500.00	2,316.93	True	40.3	35.4	J-60
J-86	CVE	1,000.00	0.41	1,500.41	1,064.89	False	-8.2	-9.2	J-27
J-27	CVE	1,000.00	0.81	1,500.81	1,065.29	False	-9.2	-4.9	J-86
J-73	CN	1,000.00	0.41	1,500.41	2,344.27	True	39.9	33.5	J-60

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-23	CVE	1,000.00	0.81	1,500.81	3,000.81	True	51.5	34.9	J-4
J-4	CVE	1,000.00	1.61	1,501.61	1,054.41	False	12.1	22.4	J-3
J-65	CN	1,000.00	0.81	1,500.80	2,669.97	True	45.6	35.4	J-60
J-93	CVE	1,000.00	0.17	1,500.17	2,863.08	True	57.2	35.8	J-4
J-26	CVE	1,000.00	2.01	1,502.01	2,084.59	True	30.0	24.6	J-4
J-92	CVE	1,000.00	3.22	1,503.22	2,634.45	True	52.3	35.3	J-4

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-134	2,756.00	CVE	0.00	2,825.82	30.2
J-4	2,807.80	CVE	2.82	2,897.34	38.7
J-44	2,728.00	CVE	1.41	2,825.82	42.3
J-3	2,803.00	CVE	0.00	2,900.81	42.3
J-60	2,681.60	CN	0.00	2,782.20	43.5
J-136	2,724.00	CVE	0.00	2,825.82	44.1
J-135	2,723.00	CVE	0.00	2,825.82	44.5
J-137	2,723.00	CVE	0.00	2,825.82	44.5
J-43	2,721.20	CVE	0.72	2,825.82	45.3
J-45	2,719.50	CVE	2.11	2,825.82	46.0
J-61	2,675.40	CN	0.00	2,782.20	46.2
J-59	2,675.20	CN	0.00	2,782.20	46.3
J-20	2,739.50	CVE	4.23	2,851.07	48.3
J-57	2,668.00	CN	0.00	2,782.20	49.4
J-62	2,711.70	CVE	0.00	2,825.82	49.4
J-56	2,667.80	CN	2.14	2,782.20	49.5
J-55	2,667.30	CN	0.00	2,782.20	49.7
J-5	2,743.10	CVE	7.77	2,857.38	49.4
J-46	2,665.60	CN	0.00	2,782.21	50.5
J-54	2,665.30	CN	0.00	2,782.20	50.6
J-47	2,664.50	CN	0.00	2,782.20	50.9
J-42	2,707.00	CVE	3.52	2,825.82	51.4
J-53	2,662.30	CN	0.00	2,782.20	51.9
J-52	2,661.40	CN	0.00	2,782.20	52.3
J-18	2,729.60	CVE	4.23	2,851.07	52.6
J-29	2,726.70	CVE	4.23	2,848.51	52.7
J-21	2,723.10	CVE	2.82	2,848.79	54.4
J-28	2,749.60	CVE	4.93	2,875.59	54.5
J-51	2,654.70	CN	0.72	2,782.20	55.2
J-58	2,654.00	CN	0.00	2,782.20	55.5
J-73	2,653.90	CN	0.72	2,782.20	55.5
J-76	2,653.60	CN	0.00	2,782.20	55.6
J-69	2,653.10	CN	0.72	2,782.20	55.9
J-72	2,652.40	CN	0.00	2,782.20	56.2
J-68	2,652.20	CN	0.00	2,782.20	56.2
J-66	2,652.00	CN	2.82	2,782.20	56.3
J-67	2,652.00	CN	0.00	2,782.20	56.3
J-48	2,652.00	CN	17.86	2,782.20	56.3
J-71	2,651.70	CN	0.00	2,782.20	56.5
J-74	2,651.50	CN	0.72	2,782.20	56.5
J-138	2,695.00	CVE	0.00	2,825.83	56.6
J-75	2,650.50	CN	0.72	2,782.20	57.0
J-64	2,650.20	CN	0.72	2,782.20	57.1
J-70	2,649.40	CN	2.13	2,782.20	57.5
J-19	2,717.20	CVE	2.11	2,849.40	57.2

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-65	2,648.80	CN	1.41	2,782.20	57.7
J-34	2,692.00	CVE	0.00	2,825.83	57.9
J-26	2,755.90	CVE	3.52	2,889.85	58.0
J-16	2,714.20	CVE	3.52	2,848.78	58.2
J-30	2,709.90	CVE	2.82	2,845.17	58.5
J-17	2,713.50	CVE	4.23	2,848.79	58.5
J-50	2,645.80	CN	2.82	2,782.20	59.0
J-63	2,644.70	CN	0.00	2,782.20	59.5
J-32	2,686.00	CVE	0.00	2,825.83	60.5
J-6	2,709.00	CVE	5.64	2,848.20	60.2
J-14	2,709.00	CVE	2.82	2,848.42	60.3
J-15	2,708.60	CVE	4.23	2,848.78	60.7
J-41	2,684.00	CVE	2.11	2,825.82	61.4
J-49	2,640.20	CN	0.72	2,782.20	61.4
J-130	2,639.80	CN	0.00	2,782.20	61.6
J-131	2,639.80	CN	0.00	2,782.20	61.6
J-90	2,687.00	CVE	1.41	2,829.30	61.6
J-132	2,639.60	CN	0.72	2,782.20	61.7
J-94	2,639.40	CN	0.00	2,782.20	61.8
J-33	2,683.00	CVE	0.00	2,825.83	61.8
J-88	2,702.00	CVE	2.82	2,844.29	61.6
J-129	2,638.80	CN	0.00	2,782.20	62.0
J-77	2,701.00	CVE	2.11	2,843.78	61.8
J-89	2,701.00	CVE	1.41	2,843.93	61.8
J-35	2,682.00	CVE	0.00	2,825.82	62.2
J-128	2,637.50	CN	0.00	2,782.20	62.6
J-31	2,688.00	CVE	1.41	2,832.62	62.6
J-22	2,700.00	CVE	2.82	2,844.89	62.7
J-87	2,689.00	CVE	0.72	2,834.37	62.9
J-95	2,636.40	CN	0.00	2,782.20	63.1
J-7	2,702.00	CVE	2.82	2,847.29	62.9
J-13	2,702.70	CVE	1.41	2,848.42	63.0
J-78	2,701.70	CVE	4.23	2,849.14	63.8
J-127	2,633.10	CN	1.41	2,782.20	64.5
J-96	2,631.80	CN	0.00	2,782.20	65.1
J-25	2,694.30	CVE	0.72	2,844.23	64.9
J-97	2,631.30	CN	0.00	2,782.20	65.3
J-36	2,675.00	CVE	0.00	2,825.82	65.3
J-100	2,631.00	CN	0.00	2,782.20	65.4
J-23	2,694.30	CVE	1.41	2,845.00	65.2
J-10	2,697.10	CVE	3.52	2,848.05	65.3
J-24	2,692.90	CVE	0.72	2,844.21	65.5
J-126	2,628.50	CN	0.00	2,782.20	66.5
J-91	2,690.00	CVE	0.72	2,843.17	66.3
J-37	2,671.00	CVE	0.00	2,825.82	67.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-98	2,626.90	CN	0.00	2,782.20	67.2
J-123	2,626.60	CN	0.00	2,782.20	67.3
J-12	2,690.30	CVE	9.85	2,845.27	67.0
J-99	2,626.40	CN	0.00	2,782.20	67.4
J-121	2,625.90	CN	0.00	2,782.20	67.6
J-133	2,685.00	CVE	0.00	2,841.98	67.9
J-101	2,624.40	CN	0.72	2,782.20	68.3
J-11	2,690.30	CVE	5.64	2,847.30	67.9
J-124	2,624.30	CN	0.00	2,782.20	68.3
J-102	2,624.00	CN	0.00	2,782.20	68.4
J-40	2,667.60	CN	0.72	2,825.82	68.5
J-122	2,622.90	CN	0.00	2,782.20	68.9
J-116	2,622.60	CN	0.00	2,782.20	69.0
J-39	2,666.00	CVE	0.00	2,825.82	69.1
J-120	2,622.20	CN	0.00	2,782.20	69.2
J-117	2,622.10	CN	0.00	2,782.20	69.3
J-27	2,730.00	CVE	1.41	2,889.85	69.2
J-107	2,621.30	CN	0.00	2,782.20	69.6
J-118	2,621.30	CN	0.00	2,782.20	69.6
J-103	2,620.90	CN	0.00	2,782.20	69.8
J-108	2,620.50	CN	1.41	2,782.20	70.0
J-119	2,620.30	CN	0.00	2,782.20	70.0
J-38	2,664.00	CVE	0.00	2,825.82	70.0
J-115	2,620.00	CN	0.00	2,782.20	70.2
J-111	2,619.50	CN	0.00	2,782.20	70.4
J-106	2,619.30	CN	0.00	2,782.20	70.5
J-104	2,618.70	CN	0.00	2,782.20	70.7
J-114	2,617.80	CN	0.00	2,782.20	71.1
J-105	2,617.70	CN	1.41	2,782.20	71.2
J-109	2,617.70	CN	0.00	2,782.20	71.2
J-110	2,617.60	CN	0.00	2,782.20	71.2
J-112	2,616.20	CN	0.00	2,782.20	71.8
J-113	2,615.30	CN	0.72	2,782.20	72.2
J-9	2,676.00	CVE	0.72	2,842.39	72.0
J-8	2,676.00	CVE	6.33	2,844.97	73.1
J-86	2,720.00	CVE	0.72	2,889.85	73.5
J-92	2,672.00	CVE	5.64	2,842.66	73.8
J-93	2,664.00	CVE	0.30	2,841.98	77.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-5	1,313.26	6.0	689.47	7.82	39.96	145.0
P-30	916.00	6.0	678.77	7.70	27.08	145.0
P-29	476.00	6.0	683.70	7.76	14.26	145.0
P-88	498.74	6.0	584.00	6.63	11.17	145.0
P-91	360.08	6.0	689.36	7.82	10.95	145.0
P-6	2,190.47	6.0	236.40	2.68	9.18	145.0
P-170	1,035.08	8.0	682.42	4.36	7.61	145.0
P-19	466.00	6.0	445.30	5.05	6.31	145.0
P-87	596.78	6.0	333.43	3.78	4.73	145.0
P-23	506.57	6.0	328.05	3.72	3.90	145.0
P-111	151.29	8.0	1,262.86	8.06	3.47	145.0
P-114	144.39	8.0	1,264.28	8.07	3.32	145.0
P-4	112.81	6.0	692.29	7.86	3.46	145.0
P-31	404.00	6.0	341.11	3.87	3.34	145.0
P-118	1,242.58	6.0	152.49	1.73	2.31	145.0
P-178	1,154.34	6.0	158.82	1.80	2.32	145.0
P-18	460.00	6.0	258.81	2.94	2.28	145.0
P-12	1,223.65	6.0	143.38	1.63	2.03	145.0
P-109	238.67	8.0	681.70	4.35	1.75	145.0
P-20	676.00	6.0	178.02	2.02	1.68	145.0
P-167	251.55	8.0	536.58	3.42	1.19	145.0
P-115	221.30	8.0	537.30	3.43	1.04	145.0
P-112	440.34	8.0	338.30	2.16	0.88	145.0
P-11	421.99	6.0	149.02	1.69	0.75	145.0
P-120	1,858.08	2.0	3.52	0.36	0.68	145.0
P-25	194.88	8.0	457.35	2.92	0.68	145.0
P-177	232.17	6.0	161.64	1.83	0.48	145.0
P-176	209.83	6.0	161.64	1.83	0.44	145.0
P-169	1,020.98	8.0	142.61	0.91	0.41	145.0
P-174	309.08	8.0	254.09	1.62	0.36	145.0
P-13	603.06	6.0	83.41	0.95	0.37	145.0
P-90	681.61	6.0	76.29	0.87	0.35	145.0
P-15	550.23	6.0	87.64	0.99	0.37	145.0
P-89	460.78	6.0	95.39	1.08	0.36	145.0
P-116	737.85	8.0	133.53	0.85	0.26	145.0
P-119	160.37	6.0	143.33	1.63	0.27	145.0
P-117	423.02	8.0	175.91	1.12	0.25	145.0
P-113	124.15	8.0	252.68	1.61	0.14	145.0
P-10	356.13	6.0	69.13	0.78	0.15	145.0
P-24	305.47	8.0	132.12	0.84	0.11	145.0
P-175	390.92	8.0	81.39	0.52	0.06	145.0
P-26	167.85	8.0	80.67	0.51	0.02	145.0
P-50	1,202.00	12.0	40.61	0.12	0.01	145.0
P-51	916.35	14.0	40.61	0.08	0.00	145.0
P-52	2,299.15	14.0	22.74	0.05	0.00	145.0
P-41	1,357.56	16.0	37.28	0.06	0.00	145.0

North Calvada North System _2024IRP.wtg
2/22/2024

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WaterCAD
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GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-69	1,158.00	12.0	15.63	0.04	0.00	145.0
P-123	772.23	8.0	6.39	0.04	0.00	145.0
P-181	1,227.31	12.0	13.91	0.04	0.00	145.0
P-36	561.81	16.0	51.19	0.08	0.00	145.0
P-182	1,021.48	12.0	13.91	0.04	0.00	145.0
P-125	685.47	8.0	6.39	0.04	0.00	145.0
P-185	971.17	12.0	13.91	0.04	0.00	145.0
P-28	906.00	6.0	2.13	0.02	0.00	145.0
P-183	218.67	12.0	13.91	0.04	0.00	145.0
P-156	951.30	10.0	2.13	0.01	0.00	145.0
P-77	900.63	12.0	7.15	0.02	0.00	145.0
P-72	285.66	8.0	4.95	0.03	0.00	145.0
P-37	412.72	16.0	37.28	0.06	0.00	145.0
P-35	154.88	16.0	51.19	0.08	0.00	145.0
P-122	1,137.37	10.0	6.39	0.03	0.00	145.0
P-126	280.26	10.0	6.39	0.03	0.00	145.0
P-173	789.89	8.0	3.22	0.02	0.00	145.0
P-128	937.06	10.0	6.39	0.03	0.00	145.0
P-38	240.00	16.0	37.28	0.06	0.00	145.0
P-39	240.00	16.0	37.28	0.06	0.00	145.0
P-49(1)	59.84	12.0	40.60	0.12	0.00	145.0
P-14	140.00	8.0	2.82	0.02	0.00	145.0
P-16	276.77	8.0	3.52	0.02	0.00	145.0
P-21	394.99	10.0	4.23	0.02	0.00	145.0
P-22	394.99	8.0	2.82	0.02	0.00	145.0
P-40	240.00	16.0	37.28	0.06	0.00	145.0
P-42	204.00	16.0	37.28	0.06	0.00	145.0
P-43	614.02	12.0	4.03	0.01	0.00	145.0
P-44	773.51	12.0	6.14	0.02	0.00	145.0
P-46	608.72	10.0	3.46	0.01	0.00	145.0
P-47	410.01	10.0	2.05	0.01	0.00	145.0
P-48	873.02	10.0	0.06	0.00	0.00	145.0
P-55	1,010.01	12.0	2.15	0.01	0.00	145.0
P-56	797.00	12.0	2.15	0.01	0.00	145.0
P-57	188.00	12.0	2.15	0.01	0.00	145.0
P-58	125.00	12.0	2.15	0.01	0.00	145.0
P-59	637.43	8.0	2.14	0.01	0.00	145.0
P-60	1,121.78	12.0	0.00	0.00	0.00	145.0
P-61	1,083.49	12.0	0.00	0.00	0.00	145.0
P-64	360.88	12.0	0.00	0.00	0.00	145.0
P-65	301.27	10.0	0.00	0.00	0.00	145.0
P-66	262.46	8.0	0.00	0.00	0.00	145.0
P-67	172.55	12.0	9.73	0.03	0.00	145.0
P-68	212.62	14.0	9.73	0.02	0.00	145.0
P-70	280.00	12.0	14.91	0.04	0.00	145.0
P-71	756.76	8.0	0.72	0.00	0.00	145.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-73	519.78	8.0	2.82	0.02	0.00	145.0
P-74	291.65	8.0	0.72	0.00	0.00	145.0
P-75	176.84	8.0	0.00	0.00	0.00	145.0
P-76	340.27	8.0	0.72	0.00	0.00	145.0
P-79	712.65	8.0	0.82	0.01	0.00	145.0
P-80	280.00	8.0	0.82	0.01	0.00	145.0
P-81	185.05	8.0	0.72	0.00	0.00	145.0
P-82	358.55	8.0	0.10	0.00	0.00	145.0
P-83	281.89	12.0	4.20	0.01	0.00	145.0
P-84	766.56	12.0	2.87	0.01	0.00	145.0
P-85	323.18	8.0	0.62	0.00	0.00	145.0
P-86	374.87	8.0	0.00	0.00	0.00	145.0
P-108	240.00	8.0	0.72	0.00	0.00	145.0
P-121	282.00	10.0	6.39	0.03	0.00	145.0
P-124	162.89	8.0	6.39	0.04	0.00	145.0
P-127	638.60	8.0	0.00	0.00	0.00	145.0
P-129	248.63	12.0	5.67	0.02	0.00	145.0
P-130	1,139.85	12.0	3.08	0.01	0.00	145.0
P-131	627.46	12.0	1.88	0.01	0.00	145.0
P-132	336.38	10.0	1.88	0.01	0.00	145.0
P-133	626.97	8.0	0.50	0.00	0.00	145.0
P-134	501.15	8.0	0.71	0.00	0.00	145.0
P-135	324.00	8.0	0.71	0.00	0.00	145.0
P-136	1,127.66	8.0	0.35	0.00	0.00	145.0
P-137	324.00	10.0	0.61	0.00	0.00	145.0
P-138	1,127.19	8.0	0.23	0.00	0.00	145.0
P-139	97.78	8.0	0.12	0.00	0.00	145.0
P-140	193.20	10.0	0.34	0.00	0.00	145.0
P-141	1,126.78	10.0	0.38	0.00	0.00	145.0
P-142	289.82	10.0	0.38	0.00	0.00	145.0
P-143	643.54	10.0	0.46	0.00	0.00	145.0
P-144	1,054.14	10.0	2.59	0.01	0.00	145.0
P-145	1,305.51	10.0	2.14	0.01	0.00	145.0
P-146	317.35	10.0	2.14	0.01	0.00	145.0
P-147	600.10	10.0	2.14	0.01	0.00	145.0
P-148	480.00	10.0	0.00	0.00	0.00	145.0
P-149	515.15	10.0	2.14	0.01	0.00	145.0
P-150	780.37	8.0	0.00	0.00	0.00	145.0
P-151	280.54	10.0	2.14	0.01	0.00	145.0
P-152	740.57	8.0	0.00	0.00	0.00	145.0
P-153	621.53	10.0	2.13	0.01	0.00	145.0
P-155	981.08	10.0	2.13	0.01	0.00	145.0
P-157	965.00	10.0	0.73	0.00	0.00	145.0
P-158	310.00	8.0	0.01	0.00	0.00	145.0
P-159	290.00	8.0	0.00	0.00	0.00	145.0
P-160	165.00	8.0	0.00	0.00	0.00	145.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Existing (2022) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-161	634.37	10.0	0.72	0.00	0.00	145.0
P-162	324.00	8.0	0.35	0.00	0.00	145.0
P-163	324.00	10.0	0.96	0.00	0.00	145.0
P-164	334.16	8.0	1.20	0.01	0.00	145.0
P-184	185.61	12.0	13.91	0.04	0.00	145.0
P-186	123.92	12.0	13.91	0.04	0.00	145.0
P-49(2)	60.18	12.0	40.61	0.12	0.00	145.0

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours**

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-134	2,756.00	CVE	0.00	2,826.00	30.3
J-4	2,807.80	CVE	1.69	2,898.00	39.0
J-44	2,728.00	CVE	0.85	2,826.00	42.4
J-3	2,803.00	CVE	0.00	2,901.40	42.6
J-60	2,681.60	CN	0.00	2,782.21	43.5
J-136	2,724.00	CVE	0.00	2,826.00	44.1
J-135	2,723.00	CVE	0.00	2,826.00	44.6
J-137	2,723.00	CVE	0.00	2,826.00	44.6
J-43	2,721.20	CVE	0.43	2,826.00	45.3
J-45	2,719.50	CVE	1.27	2,826.00	46.1
J-61	2,675.40	CN	0.00	2,782.21	46.2
J-59	2,675.20	CN	0.00	2,782.21	46.3
J-20	2,739.50	CVE	2.54	2,852.44	48.9
J-57	2,668.00	CN	0.00	2,782.21	49.4
J-62	2,711.70	CVE	0.00	2,826.00	49.5
J-56	2,667.80	CN	1.28	2,782.21	49.5
J-55	2,667.30	CN	0.00	2,782.21	49.7
J-5	2,743.10	CVE	4.66	2,858.69	50.0
J-46	2,665.60	CN	0.00	2,782.21	50.5
J-54	2,665.30	CN	0.00	2,782.21	50.6
J-47	2,664.50	CN	0.00	2,782.21	50.9
J-42	2,707.00	CVE	2.11	2,826.00	51.5
J-53	2,662.30	CN	0.00	2,782.21	51.9
J-52	2,661.40	CN	0.00	2,782.21	52.3
J-18	2,729.60	CVE	2.54	2,852.44	53.1
J-29	2,726.70	CVE	2.54	2,849.56	53.2
J-21	2,723.10	CVE	1.69	2,850.13	55.0
J-28	2,749.60	CVE	2.96	2,876.50	54.9
J-51	2,654.70	CN	0.43	2,782.21	55.2
J-58	2,654.00	CN	0.00	2,782.21	55.5
J-73	2,653.90	CN	0.43	2,782.21	55.5
J-76	2,653.60	CN	0.00	2,782.21	55.6
J-69	2,653.10	CN	0.43	2,782.21	55.9
J-72	2,652.40	CN	0.00	2,782.21	56.2
J-68	2,652.20	CN	0.00	2,782.21	56.2
J-66	2,652.00	CN	1.69	2,782.21	56.3
J-67	2,652.00	CN	0.00	2,782.21	56.3
J-48	2,652.00	CN	10.72	2,782.21	56.3
J-71	2,651.70	CN	0.00	2,782.21	56.5
J-74	2,651.50	CN	0.43	2,782.21	56.6
J-138	2,695.00	CVE	0.00	2,826.00	56.7
J-75	2,650.50	CN	0.43	2,782.21	57.0
J-64	2,650.20	CN	0.43	2,782.21	57.1
J-70	2,649.40	CN	1.28	2,782.21	57.5
J-19	2,717.20	CVE	1.27	2,850.77	57.8

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours**

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-65	2,648.80	CN	0.85	2,782.21	57.7
J-34	2,692.00	CVE	0.00	2,826.00	58.0
J-26	2,755.90	CVE	2.11	2,890.62	58.3
J-16	2,714.20	CVE	2.11	2,850.17	58.8
J-30	2,709.90	CVE	1.69	2,846.24	59.0
J-17	2,713.50	CVE	2.54	2,850.13	59.1
J-50	2,645.80	CN	1.69	2,782.21	59.0
J-63	2,644.70	CN	0.00	2,782.21	59.5
J-32	2,686.00	CVE	0.00	2,826.00	60.6
J-6	2,709.00	CVE	3.38	2,849.56	60.8
J-14	2,709.00	CVE	1.69	2,849.80	60.9
J-15	2,708.60	CVE	2.54	2,850.18	61.3
J-41	2,684.00	CVE	1.27	2,826.00	61.4
J-49	2,640.20	CN	0.43	2,782.21	61.4
J-130	2,639.80	CN	0.00	2,782.20	61.6
J-131	2,639.80	CN	0.00	2,782.20	61.6
J-90	2,687.00	CVE	0.85	2,829.65	61.7
J-132	2,639.60	CN	0.43	2,782.20	61.7
J-94	2,639.40	CN	0.00	2,782.21	61.8
J-33	2,683.00	CVE	0.00	2,826.00	61.9
J-88	2,702.00	CVE	1.69	2,845.36	62.0
J-129	2,638.80	CN	0.00	2,782.20	62.0
J-77	2,701.00	CVE	1.27	2,844.80	62.2
J-89	2,701.00	CVE	0.85	2,844.96	62.3
J-35	2,682.00	CVE	0.00	2,826.00	62.3
J-128	2,637.50	CN	0.00	2,782.20	62.6
J-31	2,688.00	CVE	0.85	2,833.13	62.8
J-22	2,700.00	CVE	1.69	2,846.03	63.2
J-87	2,689.00	CVE	0.43	2,834.98	63.2
J-95	2,636.40	CN	0.00	2,782.21	63.1
J-7	2,702.00	CVE	1.69	2,848.62	63.4
J-13	2,702.70	CVE	0.85	2,849.80	63.6
J-78	2,701.70	CVE	2.54	2,850.52	64.4
J-127	2,633.10	CN	0.85	2,782.20	64.5
J-96	2,631.80	CN	0.00	2,782.21	65.1
J-25	2,694.30	CVE	0.43	2,845.31	65.3
J-97	2,631.30	CN	0.00	2,782.21	65.3
J-36	2,675.00	CVE	0.00	2,826.00	65.3
J-100	2,631.00	CN	0.00	2,782.20	65.4
J-23	2,694.30	CVE	0.85	2,846.16	65.7
J-10	2,697.10	CVE	2.11	2,849.41	65.9
J-24	2,692.90	CVE	0.43	2,845.29	65.9
J-126	2,628.50	CN	0.00	2,782.20	66.5
J-91	2,690.00	CVE	0.43	2,844.21	66.7
J-37	2,671.00	CVE	0.00	2,826.00	67.1

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours**

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-98	2,626.90	CN	0.00	2,782.20	67.2
J-123	2,626.60	CN	0.00	2,782.20	67.3
J-12	2,690.30	CVE	5.91	2,846.46	67.6
J-99	2,626.40	CN	0.00	2,782.20	67.4
J-121	2,625.90	CN	0.00	2,782.20	67.6
J-133	2,685.00	CVE	0.00	2,842.98	68.4
J-101	2,624.40	CN	0.43	2,782.20	68.3
J-11	2,690.30	CVE	3.38	2,848.63	68.5
J-124	2,624.30	CN	0.00	2,782.20	68.3
J-102	2,624.00	CN	0.00	2,782.20	68.4
J-40	2,667.60	CN	0.43	2,826.00	68.5
J-122	2,622.90	CN	0.00	2,782.20	68.9
J-116	2,622.60	CN	0.00	2,782.20	69.1
J-39	2,666.00	CVE	0.00	2,826.00	69.2
J-120	2,622.20	CN	0.00	2,782.20	69.2
J-117	2,622.10	CN	0.00	2,782.20	69.3
J-27	2,730.00	CVE	0.85	2,890.62	69.5
J-107	2,621.30	CN	0.00	2,782.20	69.6
J-118	2,621.30	CN	0.00	2,782.20	69.6
J-103	2,620.90	CN	0.00	2,782.20	69.8
J-108	2,620.50	CN	0.85	2,782.20	70.0
J-119	2,620.30	CN	0.00	2,782.20	70.0
J-38	2,664.00	CVE	0.00	2,826.00	70.1
J-115	2,620.00	CN	0.00	2,782.20	70.2
J-111	2,619.50	CN	0.00	2,782.20	70.4
J-106	2,619.30	CN	0.00	2,782.20	70.5
J-104	2,618.70	CN	0.00	2,782.20	70.7
J-114	2,617.80	CN	0.00	2,782.20	71.1
J-105	2,617.70	CN	0.85	2,782.20	71.2
J-109	2,617.70	CN	0.00	2,782.20	71.2
J-110	2,617.60	CN	0.00	2,782.20	71.2
J-112	2,616.20	CN	0.00	2,782.20	71.8
J-113	2,615.30	CN	0.43	2,782.20	72.2
J-9	2,676.00	CVE	0.43	2,843.44	72.4
J-8	2,676.00	CVE	3.80	2,846.22	73.6
J-86	2,720.00	CVE	0.43	2,890.62	73.8
J-92	2,672.00	CVE	3.38	2,843.74	74.3
J-93	2,664.00	CVE	0.18	2,842.98	77.4

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD+Fire Condition Distribution System Junction Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-130	CN	1,000.00	0.00	1,500.00	1,049.04	False	-18.9	-15.0	J-131
J-131	CN	1,000.00	0.00	1,500.00	1,061.28	False	-17.2	-15.0	J-130
J-129	CN	1,000.00	0.00	1,500.00	1,077.58	False	-14.5	-15.0	J-131
J-132	CN	1,000.00	0.43	1,500.43	1,089.87	False	-13.6	-10.7	J-131
J-128	CN	1,000.00	0.00	1,500.00	1,111.33	False	-9.7	-10.7	J-131
J-127	CN	1,000.00	0.85	1,500.85	1,151.11	False	-3.4	-6.3	J-131
J-126	CN	1,000.00	0.00	1,500.00	1,192.83	False	3.0	-1.9	J-131
J-124	CN	1,000.00	0.00	1,500.00	1,241.74	False	9.4	2.7	J-131
J-123	CN	1,000.00	0.00	1,500.00	1,250.49	False	1.1	5.5	J-131
J-121	CN	1,000.00	0.00	1,500.00	1,262.74	False	2.2	6.8	J-130
J-122	CN	1,000.00	0.00	1,500.00	1,275.83	False	12.8	5.5	J-130
J-120	CN	1,000.00	0.00	1,500.00	1,292.13	False	14.4	6.8	J-130
J-60	CN	1,000.00	0.00	1,500.00	1,741.13	True	25.7	29.7	J-61
J-59	CN	1,000.00	0.00	1,500.00	1,819.35	True	29.8	27.0	J-60
J-55	CN	1,000.00	0.00	1,500.00	1,861.84	True	33.9	27.7	J-60
J-58	CN	1,000.00	0.00	1,500.00	1,877.23	True	35.7	28.0	J-60
J-57	CN	1,000.00	0.00	1,500.00	1,877.23	True	31.7	28.0	J-60
J-54	CN	1,000.00	0.00	1,500.00	1,877.23	True	35.0	28.0	J-60
J-53	CN	1,000.00	0.00	1,500.00	1,901.10	True	36.7	28.3	J-60
J-52	CN	1,000.00	0.00	1,500.00	2,012.83	True	38.6	29.8	J-60
J-51	CN	1,000.00	0.43	1,500.43	2,185.95	True	43.4	31.8	J-60

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD+Fire Condition Distribution System Junction Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-75	CN	1,000.00	0.43	1,500.43	2,349.54	True	46.7	33.2	J-60
J-72	CN	1,000.00	0.00	1,500.00	2,381.25	True	43.1	33.5	J-60
J-71	CN	1,000.00	0.00	1,500.00	2,387.58	True	43.4	33.5	J-60
J-70	CN	1,000.00	1.28	1,501.28	2,405.27	True	47.6	33.6	J-60
J-50	CN	1,000.00	1.69	1,501.69	2,670.07	True	50.8	35.4	J-60
J-63	CN	1,000.00	0.00	1,500.00	2,769.31	True	51.9	35.9	J-60
J-119	CN	1,000.00	0.00	1,500.00	1,323.53	False	15.4	9.2	J-130
J-33	CVE	1,000.00	0.00	1,500.00	3,000.00	True	60.8	41.3	J-44
J-38	CVE	1,000.00	0.00	1,500.00	3,000.00	True	68.3	40.8	J-44
J-40	CN	1,000.00	0.43	1,500.43	3,000.43	True	66.4	40.5	J-44
J-135	CVE	0.00	0.00	1,500.00	3,000.00	True	41.9	27.9	J-134
J-137	CVE	0.00	0.00	1,500.00	3,000.00	True	42.1	28.2	J-134
J-134	CVE	0.00	0.00	1,500.00	3,000.00	True	27.4	42.0	J-136
J-35	CVE	1,000.00	0.00	1,500.00	3,000.00	True	60.8	40.9	J-44
J-36	CVE	1,000.00	0.00	1,500.00	3,000.00	True	63.7	40.9	J-44
J-37	CVE	1,000.00	0.00	1,500.00	3,000.00	True	65.4	40.8	J-44
J-43	CVE	1,000.00	0.43	1,500.43	3,000.43	True	42.5	39.6	J-44
J-42	CVE	1,000.00	2.11	1,502.11	3,002.11	True	48.6	39.6	J-44
J-45	CVE	1,000.00	1.27	1,501.27	3,001.27	True	42.1	38.9	J-44
J-138	CVE	0.00	0.00	1,500.00	3,000.00	True	55.1	28.8	J-134
J-41	CVE	1,000.00	1.27	1,501.27	3,001.27	True	58.9	40.1	J-44
J-136	CVE	0.00	0.00	1,500.00	3,000.00	True	41.6	28.1	J-134
J-34	CVE	1,000.00	0.00	1,500.00	3,000.00	True	56.6	41.0	J-44

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD+Fire Condition Distribution System Junction Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-39	CVE	1,000.00	0.00	1,500.00	3,000.00	True	67.1	40.5	J-44
J-44	CVE	1,000.00	0.85	1,500.85	3,000.85	True	38.5	42.5	J-43
J-62	CVE	1,000.00	0.00	1,500.00	3,000.00	True	46.6	39.6	J-44
J-32	CVE	1,000.00	0.00	1,500.00	3,000.00	True	59.6	41.4	J-44
J-118	CN	1,000.00	0.00	1,500.00	1,323.60	False	17.2	9.2	J-131
J-48	CN	1,000.00	10.72	1,510.72	3,010.72	True	53.0	40.2	J-60
J-46	CN	1,000.00	0.00	1,500.00	3,000.00	True	50.3	40.5	J-44
J-49	CN	1,000.00	0.43	1,500.43	3,000.43	True	56.0	38.1	J-60
J-47	CN	1,000.00	0.00	1,500.00	3,000.00	True	48.5	40.5	J-44
J-117	CN	1,000.00	0.00	1,500.00	1,363.15	False	19.6	12.0	J-131
J-116	CN	1,000.00	0.00	1,500.00	1,385.45	False	20.9	13.4	J-131
J-115	CN	1,000.00	0.00	1,500.00	1,489.93	False	28.0	19.5	J-131
J-112	CN	1,000.00	0.00	1,500.00	1,501.88	True	29.6	20.1	J-131
J-113	CN	1,000.00	0.43	1,500.43	1,503.50	True	29.6	20.2	J-130
J-111	CN	1,000.00	0.00	1,500.00	1,504.45	True	28.0	20.2	J-131
J-114	CN	1,000.00	0.00	1,500.00	1,505.89	True	28.3	20.3	J-130
J-110	CN	1,000.00	0.00	1,500.00	1,506.90	True	28.7	20.4	J-131
J-108	CN	1,000.00	0.85	1,500.85	1,508.07	True	27.0	20.4	J-130
J-109	CN	1,000.00	0.00	1,500.00	1,508.78	True	29.0	20.4	J-130
J-107	CN	1,000.00	0.00	1,500.00	1,509.24	True	26.0	20.5	J-130
J-105	CN	1,000.00	0.85	1,500.85	1,512.05	True	29.2	20.6	J-130

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD+Fire Condition Distribution System Junction Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-106	CN	1,000.00	0.00	1,500.00	1,512.25	True	28.0	20.6	J-130
J-104	CN	1,000.00	0.00	1,500.00	1,513.29	True	28.8	20.7	J-130
J-103	CN	1,000.00	0.00	1,500.00	1,514.94	True	28.3	20.8	J-130
J-100	CN	1,000.00	0.00	1,500.00	1,520.56	True	21.1	26.1	J-130
J-102	CN	1,000.00	0.00	1,500.00	1,524.94	True	28.1	21.2	J-130
J-101	CN	1,000.00	0.43	1,500.43	1,534.86	True	28.4	21.7	J-131
J-133	CVE	1,000.00	0.00	1,500.00	3,000.00	True	58.6	41.4	J-44
J-31	CVE	1,000.00	0.85	1,500.85	3,000.85	True	58.7	37.6	J-4
J-88	CVE	1,000.00	1.69	1,501.69	3,001.69	True	51.5	35.2	J-4
J-24	CVE	1,000.00	0.43	1,500.43	3,000.43	True	55.7	35.2	J-4
J-74	CN	1,000.00	0.43	1,500.43	2,371.05	True	44.3	33.4	J-60
J-90	CVE	1,000.00	0.85	1,500.85	3,000.85	True	59.1	38.1	J-4
J-25	CVE	1,000.00	0.43	1,500.43	3,000.43	True	54.8	35.2	J-4
J-89	CVE	1,000.00	0.85	1,500.85	3,000.85	True	51.5	35.3	J-4
J-20	CVE	1,000.00	2.54	1,502.54	1,872.25	True	27.4	33.3	J-4
J-99	CN	1,000.00	0.00	1,500.00	1,633.35	True	31.9	26.1	J-130
J-19	CVE	1,000.00	1.27	1,501.27	2,094.87	True	34.6	32.2	J-20
J-56	CN	1,000.00	1.28	1,501.28	1,659.01	True	25.0	27.7	J-60
J-18	CVE	1,000.00	2.54	1,502.54	2,007.89	True	33.5	29.2	J-20
J-98	CN	1,000.00	0.00	1,500.00	1,666.61	True	32.9	27.4	J-130
J-78	CVE	1,000.00	2.54	1,502.54	2,232.59	True	42.5	32.5	J-20

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD+Fire Condition Distribution System Junction Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-77	CVE	1,000.00	1.27	1,501.27	3,001.27	True	51.6	35.4	J-4
J-61	CN	1,000.00	0.00	1,500.00	1,733.58	True	26.1	27.0	J-60
J-8	CVE	1,000.00	3.80	1,503.80	1,893.43	True	36.8	34.7	J-4
J-91	CVE	1,000.00	0.43	1,500.43	3,000.43	True	56.5	35.5	J-4
J-3	CVE	1,000.00	0.00	1,500.00	1,315.88	False	19.9	17.4	J-4
J-10	CVE	1,000.00	2.11	1,502.11	2,434.90	True	43.6	34.0	J-4
J-29	CVE	1,000.00	2.54	1,502.54	2,815.93	True	39.4	34.5	J-4
J-16	CVE	1,000.00	2.11	1,502.11	1,718.16	True	27.1	33.3	J-15
J-14	CVE	1,000.00	1.69	1,501.69	1,815.63	True	30.2	34.0	J-4
J-13	CVE	1,000.00	0.85	1,500.85	1,894.57	True	34.9	32.1	J-14
J-6	CVE	1,000.00	3.38	1,503.38	2,196.20	True	37.4	33.8	J-4
J-5	CVE	1,000.00	4.66	1,504.66	2,029.13	True	29.9	31.9	J-4
J-95	CN	1,000.00	0.00	1,500.00	2,947.71	True	51.1	38.1	J-60
J-94	CN	1,000.00	0.00	1,500.00	3,000.00	True	55.1	38.1	J-60
J-17	CVE	1,000.00	2.54	1,502.54	2,349.60	True	40.9	33.0	J-20
J-15	CVE	1,000.00	2.54	1,502.54	1,871.51	True	33.3	30.9	J-16
J-21	CVE	1,000.00	1.69	1,501.69	1,969.24	True	31.3	33.0	J-20
J-30	CVE	1,000.00	1.69	1,501.69	3,001.69	True	45.8	35.0	J-4
J-97	CN	1,000.00	0.00	1,500.00	1,984.30	True	40.5	36.8	J-130
J-87	CVE	1,000.00	0.43	1,500.43	3,000.43	True	57.4	37.2	J-4
J-12	CVE	1,000.00	5.91	1,505.91	2,734.30	True	48.3	34.7	J-4

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) MDD+Fire Condition Distribution System Junction Report
MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-69	CN	1,000.00	0.43	1,500.43	2,018.62	True	35.1	35.4	J-60
J-96	CN	1,000.00	0.00	1,500.00	2,088.70	True	42.5	38.1	J-60
J-22	CVE	1,000.00	1.69	1,501.69	3,001.69	True	51.8	35.0	J-4
J-66	CN	1,000.00	1.69	1,501.69	2,120.43	True	37.1	35.4	J-60
J-68	CN	1,000.00	0.00	1,500.00	2,159.53	True	37.7	35.4	J-60
J-7	CVE	1,000.00	1.69	1,501.69	1,860.56	True	32.1	34.1	J-4
J-76	CN	1,000.00	0.00	1,500.00	2,214.23	True	38.3	33.4	J-60
J-64	CN	1,000.00	0.43	1,500.43	2,221.58	True	39.1	35.9	J-60
J-28	CVE	1,000.00	2.96	1,502.96	1,875.38	True	28.0	29.4	J-4
J-9	CVE	1,000.00	0.43	1,500.43	2,924.30	True	54.3	35.4	J-4
J-11	CVE	1,000.00	3.38	1,503.38	2,190.86	True	41.2	34.2	J-4
J-67	CN	1,000.00	0.00	1,500.00	2,316.50	True	40.2	35.4	J-60
J-86	CVE	1,000.00	0.43	1,500.43	1,064.51	False	-8.2	-9.2	J-27
J-27	CVE	1,000.00	0.85	1,500.85	1,064.93	False	-9.2	-4.9	J-86
J-73	CN	1,000.00	0.43	1,500.43	2,343.85	True	39.9	33.5	J-60
J-23	CVE	1,000.00	0.85	1,500.85	3,000.85	True	51.5	34.9	J-4
J-4	CVE	1,000.00	1.69	1,501.69	1,053.26	False	12.1	22.4	J-3
J-65	CN	1,000.00	0.85	1,500.85	2,669.23	True	45.6	35.4	J-60
J-93	CVE	1,000.00	0.18	1,500.18	2,862.17	True	57.2	35.7	J-4
J-26	CVE	1,000.00	2.11	1,502.11	2,084.15	True	30.0	24.6	J-4
J-92	CVE	1,000.00	3.38	1,503.38	2,633.54	True	52.2	35.3	J-4

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours**

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-134	2,756.00	CVE	0.00	2,825.80	30.2
J-4	2,807.80	CVE	2.96	2,897.26	38.7
J-44	2,728.00	CVE	1.49	2,825.80	42.3
J-3	2,803.00	CVE	0.00	2,900.73	42.3
J-60	2,681.60	CN	0.00	2,782.20	43.5
J-136	2,724.00	CVE	0.00	2,825.80	44.0
J-135	2,723.00	CVE	0.00	2,825.80	44.5
J-137	2,723.00	CVE	0.00	2,825.80	44.5
J-43	2,721.20	CVE	0.75	2,825.80	45.3
J-45	2,719.50	CVE	2.22	2,825.80	46.0
J-61	2,675.40	CN	0.00	2,782.20	46.2
J-59	2,675.20	CN	0.00	2,782.20	46.3
J-20	2,739.50	CVE	4.44	2,850.90	48.2
J-57	2,668.00	CN	0.00	2,782.20	49.4
J-62	2,711.70	CVE	0.00	2,825.80	49.4
J-56	2,667.80	CN	2.25	2,782.20	49.5
J-55	2,667.30	CN	0.00	2,782.20	49.7
J-5	2,743.10	CVE	8.16	2,857.22	49.4
J-46	2,665.60	CN	0.00	2,782.21	50.5
J-54	2,665.30	CN	0.00	2,782.20	50.6
J-47	2,664.50	CN	0.00	2,782.20	50.9
J-42	2,707.00	CVE	3.70	2,825.80	51.4
J-53	2,662.30	CN	0.00	2,782.20	51.9
J-52	2,661.40	CN	0.00	2,782.20	52.3
J-18	2,729.60	CVE	4.44	2,850.90	52.5
J-29	2,726.70	CVE	4.44	2,848.38	52.6
J-21	2,723.10	CVE	2.96	2,848.63	54.3
J-28	2,749.60	CVE	5.17	2,875.48	54.5
J-51	2,654.70	CN	0.75	2,782.20	55.2
J-58	2,654.00	CN	0.00	2,782.20	55.5
J-73	2,653.90	CN	0.75	2,782.20	55.5
J-76	2,653.60	CN	0.00	2,782.20	55.6
J-69	2,653.10	CN	0.75	2,782.20	55.9
J-72	2,652.40	CN	0.00	2,782.20	56.2
J-68	2,652.20	CN	0.00	2,782.20	56.2
J-66	2,652.00	CN	2.96	2,782.20	56.3
J-67	2,652.00	CN	0.00	2,782.20	56.3
J-48	2,652.00	CN	18.76	2,782.20	56.3
J-71	2,651.70	CN	0.00	2,782.20	56.5
J-74	2,651.50	CN	0.75	2,782.20	56.5
J-138	2,695.00	CVE	0.00	2,825.80	56.6
J-75	2,650.50	CN	0.75	2,782.20	57.0
J-64	2,650.20	CN	0.75	2,782.20	57.1
J-70	2,649.40	CN	2.23	2,782.20	57.5
J-19	2,717.20	CVE	2.22	2,849.23	57.1

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours**

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-65	2,648.80	CN	1.48	2,782.20	57.7
J-34	2,692.00	CVE	0.00	2,825.80	57.9
J-26	2,755.90	CVE	3.70	2,889.76	57.9
J-16	2,714.20	CVE	3.70	2,848.61	58.2
J-30	2,709.90	CVE	2.96	2,845.04	58.5
J-17	2,713.50	CVE	4.44	2,848.63	58.5
J-50	2,645.80	CN	2.96	2,782.20	59.0
J-63	2,644.70	CN	0.00	2,782.20	59.5
J-32	2,686.00	CVE	0.00	2,825.80	60.5
J-6	2,709.00	CVE	5.92	2,848.04	60.2
J-14	2,709.00	CVE	2.96	2,848.25	60.2
J-15	2,708.60	CVE	4.44	2,848.61	60.6
J-41	2,684.00	CVE	2.22	2,825.80	61.4
J-49	2,640.20	CN	0.75	2,782.20	61.4
J-130	2,639.80	CN	0.00	2,782.19	61.6
J-131	2,639.80	CN	0.00	2,782.19	61.6
J-90	2,687.00	CVE	1.49	2,829.25	61.5
J-132	2,639.60	CN	0.75	2,782.19	61.7
J-94	2,639.40	CN	0.00	2,782.20	61.8
J-33	2,683.00	CVE	0.00	2,825.80	61.8
J-88	2,702.00	CVE	2.96	2,844.16	61.5
J-129	2,638.80	CN	0.00	2,782.19	62.0
J-77	2,701.00	CVE	2.22	2,843.65	61.7
J-89	2,701.00	CVE	1.49	2,843.80	61.8
J-35	2,682.00	CVE	0.00	2,825.80	62.2
J-128	2,637.50	CN	0.00	2,782.19	62.6
J-31	2,688.00	CVE	1.49	2,832.55	62.5
J-22	2,700.00	CVE	2.96	2,844.75	62.6
J-87	2,689.00	CVE	0.75	2,834.29	62.9
J-95	2,636.40	CN	0.00	2,782.20	63.1
J-7	2,702.00	CVE	2.96	2,847.12	62.8
J-13	2,702.70	CVE	1.49	2,848.25	63.0
J-78	2,701.70	CVE	4.44	2,848.97	63.7
J-127	2,633.10	CN	1.48	2,782.19	64.5
J-96	2,631.80	CN	0.00	2,782.20	65.1
J-25	2,694.30	CVE	0.75	2,844.10	64.8
J-97	2,631.30	CN	0.00	2,782.20	65.3
J-36	2,675.00	CVE	0.00	2,825.80	65.2
J-100	2,631.00	CN	0.00	2,782.19	65.4
J-23	2,694.30	CVE	1.49	2,844.86	65.1
J-10	2,697.10	CVE	3.70	2,847.88	65.2
J-24	2,692.90	CVE	0.75	2,844.08	65.4
J-126	2,628.50	CN	0.00	2,782.19	66.5
J-91	2,690.00	CVE	0.75	2,843.04	66.2
J-37	2,671.00	CVE	0.00	2,825.80	67.0

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours**

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-98	2,626.90	CN	0.00	2,782.19	67.2
J-123	2,626.60	CN	0.00	2,782.19	67.3
J-12	2,690.30	CVE	10.35	2,845.12	67.0
J-99	2,626.40	CN	0.00	2,782.19	67.4
J-121	2,625.90	CN	0.00	2,782.19	67.6
J-133	2,685.00	CVE	0.00	2,841.86	67.9
J-101	2,624.40	CN	0.75	2,782.19	68.3
J-11	2,690.30	CVE	5.92	2,847.13	67.9
J-124	2,624.30	CN	0.00	2,782.19	68.3
J-102	2,624.00	CN	0.00	2,782.19	68.4
J-40	2,667.60	CN	0.75	2,825.80	68.4
J-122	2,622.90	CN	0.00	2,782.19	68.9
J-116	2,622.60	CN	0.00	2,782.19	69.0
J-39	2,666.00	CVE	0.00	2,825.80	69.1
J-120	2,622.20	CN	0.00	2,782.19	69.2
J-117	2,622.10	CN	0.00	2,782.19	69.3
J-27	2,730.00	CVE	1.49	2,889.76	69.1
J-107	2,621.30	CN	0.00	2,782.19	69.6
J-118	2,621.30	CN	0.00	2,782.19	69.6
J-103	2,620.90	CN	0.00	2,782.19	69.8
J-108	2,620.50	CN	1.48	2,782.19	70.0
J-119	2,620.30	CN	0.00	2,782.19	70.0
J-38	2,664.00	CVE	0.00	2,825.80	70.0
J-115	2,620.00	CN	0.00	2,782.19	70.2
J-111	2,619.50	CN	0.00	2,782.19	70.4
J-106	2,619.30	CN	0.00	2,782.19	70.5
J-104	2,618.70	CN	0.00	2,782.19	70.7
J-114	2,617.80	CN	0.00	2,782.19	71.1
J-105	2,617.70	CN	1.48	2,782.19	71.2
J-109	2,617.70	CN	0.00	2,782.19	71.2
J-110	2,617.60	CN	0.00	2,782.19	71.2
J-112	2,616.20	CN	0.00	2,782.19	71.8
J-113	2,615.30	CN	0.75	2,782.19	72.2
J-9	2,676.00	CVE	0.75	2,842.26	71.9
J-8	2,676.00	CVE	6.65	2,844.82	73.0
J-86	2,720.00	CVE	0.75	2,889.76	73.4
J-92	2,672.00	CVE	5.92	2,842.53	73.8
J-93	2,664.00	CVE	0.31	2,841.86	76.9

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours**

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-5	1,313.26	6.0	690.22	7.83	40.04	145.0
P-30	916.00	6.0	678.99	7.70	27.10	145.0
P-29	476.00	6.0	684.17	7.76	14.28	145.0
P-88	498.74	6.0	582.24	6.61	11.10	145.0
P-91	360.08	6.0	690.10	7.83	10.97	145.0
P-6	2,190.47	6.0	236.49	2.68	9.19	145.0
P-170	1,035.08	8.0	680.05	4.34	7.56	145.0
P-19	466.00	6.0	445.57	5.06	6.32	145.0
P-87	596.78	6.0	333.31	3.78	4.73	145.0
P-23	506.57	6.0	326.94	3.71	3.87	145.0
P-111	151.29	8.0	1,258.56	8.03	3.45	145.0
P-114	144.39	8.0	1,260.05	8.04	3.30	145.0
P-4	112.81	6.0	693.18	7.87	3.47	145.0
P-31	404.00	6.0	341.24	3.87	3.34	145.0
P-118	1,242.58	6.0	151.75	1.72	2.29	145.0
P-178	1,154.34	6.0	158.40	1.80	2.30	145.0
P-18	460.00	6.0	258.60	2.93	2.28	145.0
P-12	1,223.65	6.0	142.70	1.62	2.01	145.0
P-109	238.67	8.0	679.30	4.34	1.74	145.0
P-20	676.00	6.0	178.09	2.02	1.68	145.0
P-167	251.55	8.0	535.29	3.42	1.18	145.0
P-115	221.30	8.0	536.04	3.42	1.04	145.0
P-112	440.34	8.0	338.28	2.16	0.88	145.0
P-11	421.99	6.0	148.62	1.69	0.75	145.0
P-120	1,858.08	2.0	3.49	0.36	0.67	145.0
P-25	194.88	8.0	454.86	2.90	0.68	145.0
P-177	232.17	6.0	161.35	1.83	0.48	145.0
P-176	209.83	6.0	161.35	1.83	0.43	145.0
P-169	1,020.98	8.0	141.58	0.90	0.41	145.0
P-174	309.08	8.0	252.63	1.61	0.36	145.0
P-13	603.06	6.0	83.10	0.94	0.36	145.0
P-90	681.61	6.0	75.75	0.86	0.35	145.0
P-15	550.23	6.0	87.54	0.99	0.37	145.0
P-89	460.78	6.0	95.68	1.09	0.36	145.0
P-116	737.85	8.0	132.36	0.84	0.26	145.0
P-119	160.37	6.0	142.34	1.62	0.26	145.0
P-117	423.02	8.0	175.87	1.12	0.25	145.0
P-113	124.15	8.0	251.15	1.60	0.14	145.0
P-10	356.13	6.0	69.22	0.79	0.15	145.0
P-24	305.47	8.0	130.87	0.84	0.11	145.0
P-175	390.92	8.0	82.69	0.53	0.06	145.0
P-26	167.85	8.0	81.94	0.52	0.02	145.0
P-50	1,202.00	12.0	42.63	0.12	0.01	145.0
P-51	916.35	14.0	42.63	0.09	0.00	145.0
P-52	2,299.15	14.0	23.87	0.05	0.00	145.0
P-41	1,357.56	16.0	39.15	0.06	0.00	145.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Action (2027) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-69	1,158.00	12.0	16.41	0.05	0.00	145.0
P-123	772.23	8.0	6.71	0.04	0.00	145.0
P-181	1,227.31	12.0	14.60	0.04	0.00	145.0
P-36	561.81	16.0	53.75	0.09	0.00	145.0
P-182	1,021.48	12.0	14.60	0.04	0.00	145.0
P-125	685.47	8.0	6.71	0.04	0.00	145.0
P-185	971.17	12.0	14.60	0.04	0.00	145.0
P-28	906.00	6.0	2.24	0.03	0.00	145.0
P-183	218.67	12.0	14.60	0.04	0.00	145.0
P-156	951.30	10.0	2.23	0.01	0.00	145.0
P-77	900.63	12.0	7.51	0.02	0.00	145.0
P-72	285.66	8.0	5.19	0.03	0.00	145.0
P-37	412.72	16.0	39.15	0.06	0.00	145.0
P-35	154.88	16.0	53.75	0.09	0.00	145.0
P-122	1,137.37	10.0	6.71	0.03	0.00	145.0
P-126	280.26	10.0	6.71	0.03	0.00	145.0
P-173	789.89	8.0	3.18	0.02	0.00	145.0
P-128	937.06	10.0	6.70	0.03	0.00	145.0
P-38	240.00	16.0	39.15	0.06	0.00	145.0
P-39	240.00	16.0	39.15	0.06	0.00	145.0
P-49(1)	59.84	12.0	42.63	0.12	0.00	145.0
P-14	140.00	8.0	2.96	0.02	0.00	145.0
P-16	276.77	8.0	3.70	0.02	0.00	145.0
P-21	394.99	10.0	4.44	0.02	0.00	145.0
P-22	394.99	8.0	2.96	0.02	0.00	145.0
P-40	240.00	16.0	39.15	0.06	0.00	145.0
P-42	204.00	16.0	39.15	0.06	0.00	145.0
P-43	614.02	12.0	4.24	0.01	0.00	145.0
P-44	773.51	12.0	6.45	0.02	0.00	145.0
P-46	608.72	10.0	3.63	0.01	0.00	145.0
P-47	410.01	10.0	2.15	0.01	0.00	145.0
P-48	873.02	10.0	0.07	0.00	0.00	145.0
P-55	1,010.01	12.0	2.26	0.01	0.00	145.0
P-56	797.00	12.0	2.26	0.01	0.00	145.0
P-57	188.00	12.0	2.26	0.01	0.00	145.0
P-58	125.00	12.0	2.25	0.01	0.00	145.0
P-59	637.43	8.0	2.25	0.01	0.00	145.0
P-60	1,121.78	12.0	0.00	0.00	0.00	145.0
P-61	1,083.49	12.0	0.00	0.00	0.00	145.0
P-64	360.88	12.0	0.00	0.00	0.00	145.0
P-65	301.27	10.0	0.00	0.00	0.00	145.0
P-66	262.46	8.0	0.00	0.00	0.00	145.0
P-67	172.55	12.0	10.22	0.03	0.00	145.0
P-68	212.62	14.0	10.22	0.02	0.00	145.0
P-70	280.00	12.0	15.66	0.04	0.00	145.0
P-71	756.76	8.0	0.75	0.00	0.00	145.0

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Action (2027) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-73	519.78	8.0	2.96	0.02	0.00	145.0
P-74	291.65	8.0	0.75	0.00	0.00	145.0
P-75	176.84	8.0	0.00	0.00	0.00	145.0
P-76	340.27	8.0	0.75	0.00	0.00	145.0
P-79	712.65	8.0	0.86	0.01	0.00	145.0
P-80	280.00	8.0	0.86	0.01	0.00	145.0
P-81	185.05	8.0	0.75	0.00	0.00	145.0
P-82	358.55	8.0	0.11	0.00	0.00	145.0
P-83	281.89	12.0	4.41	0.01	0.00	145.0
P-84	766.56	12.0	3.01	0.01	0.00	145.0
P-85	323.18	8.0	0.65	0.00	0.00	145.0
P-86	374.87	8.0	0.00	0.00	0.00	145.0
P-108	240.00	8.0	0.75	0.00	0.00	145.0
P-121	282.00	10.0	6.71	0.03	0.00	145.0
P-124	162.89	8.0	6.71	0.04	0.00	145.0
P-127	638.60	8.0	0.00	0.00	0.00	145.0
P-129	248.63	12.0	5.95	0.02	0.00	145.0
P-130	1,139.85	12.0	3.23	0.01	0.00	145.0
P-131	627.46	12.0	1.97	0.01	0.00	145.0
P-132	336.38	10.0	1.97	0.01	0.00	145.0
P-133	626.97	8.0	0.52	0.00	0.00	145.0
P-134	501.15	8.0	0.74	0.00	0.00	145.0
P-135	324.00	8.0	0.74	0.00	0.00	145.0
P-136	1,127.66	8.0	0.37	0.00	0.00	145.0
P-137	324.00	10.0	0.64	0.00	0.00	145.0
P-138	1,127.19	8.0	0.24	0.00	0.00	145.0
P-139	97.78	8.0	0.13	0.00	0.00	145.0
P-140	193.20	10.0	0.35	0.00	0.00	145.0
P-141	1,126.78	10.0	0.40	0.00	0.00	145.0
P-142	289.82	10.0	0.40	0.00	0.00	145.0
P-143	643.54	10.0	0.48	0.00	0.00	145.0
P-144	1,054.14	10.0	2.72	0.01	0.00	145.0
P-145	1,305.51	10.0	2.24	0.01	0.00	145.0
P-146	317.35	10.0	2.24	0.01	0.00	145.0
P-147	600.10	10.0	2.24	0.01	0.00	145.0
P-148	480.00	10.0	0.00	0.00	0.00	145.0
P-149	515.15	10.0	2.24	0.01	0.00	145.0
P-150	780.37	8.0	0.00	0.00	0.00	145.0
P-151	280.54	10.0	2.24	0.01	0.00	145.0
P-152	740.57	8.0	0.00	0.00	0.00	145.0
P-153	621.53	10.0	2.23	0.01	0.00	145.0
P-155	981.08	10.0	2.23	0.01	0.00	145.0
P-157	965.00	10.0	0.75	0.00	0.00	145.0
P-158	310.00	8.0	0.00	0.00	0.00	145.0
P-159	290.00	8.0	0.00	0.00	0.00	145.0
P-160	165.00	8.0	0.00	0.00	0.00	145.0

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
 Action (2027) PHD Condition Distribution System Pipe Report
 Pipe Table - Velocity - Time: 0.00 hours**

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-161	634.37	10.0	0.75	0.00	0.00	145.0
P-162	324.00	8.0	0.37	0.00	0.00	145.0
P-163	324.00	10.0	1.01	0.00	0.00	145.0
P-164	334.16	8.0	1.26	0.01	0.00	145.0
P-184	185.61	12.0	14.60	0.04	0.00	145.0
P-186	123.92	12.0	14.60	0.04	0.00	145.0
P-49(2)	60.18	12.0	42.63	0.12	0.00	145.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-134	2,756.00	CVE	0.00	2,825.94	30.3
J-4	2,807.80	CVE	2.08	2,897.77	38.9
J-44	2,728.00	CVE	1.04	2,825.94	42.4
J-3	2,803.00	CVE	0.00	2,901.19	42.5
J-60	2,681.60	CN	0.00	2,782.20	43.5
J-136	2,724.00	CVE	0.00	2,825.94	44.1
J-135	2,723.00	CVE	0.00	2,825.94	44.5
J-137	2,723.00	CVE	0.00	2,825.94	44.5
J-43	2,721.20	CVE	0.53	2,825.94	45.3
J-45	2,719.50	CVE	1.56	2,825.94	46.1
J-61	2,675.40	CN	0.00	2,782.20	46.2
J-59	2,675.20	CN	0.00	2,782.20	46.3
J-20	2,739.50	CVE	3.12	2,851.97	48.7
J-57	2,668.00	CN	0.00	2,782.20	49.4
J-62	2,711.70	CVE	0.00	2,825.94	49.4
J-56	2,667.80	CN	1.58	2,782.20	49.5
J-55	2,667.30	CN	0.00	2,782.20	49.7
J-5	2,743.10	CVE	5.73	2,858.24	49.8
J-46	2,665.60	CN	0.00	2,782.21	50.5
J-54	2,665.30	CN	0.00	2,782.20	50.6
J-47	2,664.50	CN	0.00	2,782.21	50.9
J-42	2,707.00	CVE	2.60	2,825.94	51.5
J-53	2,662.30	CN	0.00	2,782.20	51.9
J-52	2,661.40	CN	0.00	2,782.20	52.3
J-18	2,729.60	CVE	3.12	2,851.97	52.9
J-29	2,726.70	CVE	3.12	2,849.20	53.0
J-21	2,723.10	CVE	2.08	2,849.67	54.8
J-28	2,749.60	CVE	3.63	2,876.19	54.8
J-51	2,654.70	CN	0.53	2,782.20	55.2
J-58	2,654.00	CN	0.00	2,782.20	55.5
J-73	2,653.90	CN	0.53	2,782.20	55.5
J-76	2,653.60	CN	0.00	2,782.20	55.6
J-69	2,653.10	CN	0.53	2,782.20	55.9
J-72	2,652.40	CN	0.00	2,782.20	56.2
J-68	2,652.20	CN	0.00	2,782.20	56.2
J-66	2,652.00	CN	2.08	2,782.20	56.3
J-67	2,652.00	CN	0.00	2,782.20	56.3
J-48	2,652.00	CN	13.17	2,782.21	56.3
J-71	2,651.70	CN	0.00	2,782.20	56.5
J-74	2,651.50	CN	0.53	2,782.20	56.5
J-138	2,695.00	CVE	0.00	2,825.94	56.7
J-75	2,650.50	CN	0.53	2,782.20	57.0
J-64	2,650.20	CN	0.53	2,782.20	57.1
J-70	2,649.40	CN	1.57	2,782.20	57.5
J-19	2,717.20	CVE	1.56	2,850.30	57.6

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-65	2,648.80	CN	1.04	2,782.20	57.7
J-34	2,692.00	CVE	0.00	2,825.94	58.0
J-26	2,755.90	CVE	2.60	2,890.36	58.2
J-16	2,714.20	CVE	2.60	2,849.70	58.6
J-30	2,709.90	CVE	2.08	2,845.87	58.8
J-17	2,713.50	CVE	3.12	2,849.67	58.9
J-50	2,645.80	CN	2.08	2,782.20	59.0
J-63	2,644.70	CN	0.00	2,782.20	59.5
J-32	2,686.00	CVE	0.00	2,825.94	60.5
J-6	2,709.00	CVE	4.15	2,849.10	60.6
J-14	2,709.00	CVE	2.08	2,849.32	60.7
J-15	2,708.60	CVE	3.12	2,849.70	61.0
J-41	2,684.00	CVE	1.56	2,825.94	61.4
J-49	2,640.20	CN	0.53	2,782.20	61.4
J-130	2,639.80	CN	0.00	2,782.20	61.6
J-131	2,639.80	CN	0.00	2,782.20	61.6
J-90	2,687.00	CVE	1.04	2,829.53	61.7
J-132	2,639.60	CN	0.53	2,782.20	61.7
J-94	2,639.40	CN	0.00	2,782.20	61.8
J-33	2,683.00	CVE	0.00	2,825.94	61.8
J-88	2,702.00	CVE	2.08	2,844.99	61.9
J-129	2,638.80	CN	0.00	2,782.20	62.0
J-77	2,701.00	CVE	1.56	2,844.45	62.1
J-89	2,701.00	CVE	1.04	2,844.60	62.1
J-35	2,682.00	CVE	0.00	2,825.94	62.3
J-128	2,637.50	CN	0.00	2,782.20	62.6
J-31	2,688.00	CVE	1.04	2,832.96	62.7
J-22	2,700.00	CVE	2.08	2,845.64	63.0
J-87	2,689.00	CVE	0.53	2,834.77	63.1
J-95	2,636.40	CN	0.00	2,782.20	63.1
J-7	2,702.00	CVE	2.08	2,848.16	63.2
J-13	2,702.70	CVE	1.04	2,849.32	63.4
J-78	2,701.70	CVE	3.12	2,850.04	64.2
J-127	2,633.10	CN	1.04	2,782.20	64.5
J-96	2,631.80	CN	0.00	2,782.20	65.1
J-25	2,694.30	CVE	0.53	2,844.94	65.2
J-97	2,631.30	CN	0.00	2,782.20	65.3
J-36	2,675.00	CVE	0.00	2,825.94	65.3
J-100	2,631.00	CN	0.00	2,782.20	65.4
J-23	2,694.30	CVE	1.04	2,845.76	65.5
J-10	2,697.10	CVE	2.60	2,848.94	65.7
J-24	2,692.90	CVE	0.53	2,844.92	65.8
J-126	2,628.50	CN	0.00	2,782.20	66.5
J-91	2,690.00	CVE	0.53	2,843.85	66.6
J-37	2,671.00	CVE	0.00	2,825.94	67.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-98	2,626.90	CN	0.00	2,782.20	67.2
J-123	2,626.60	CN	0.00	2,782.20	67.3
J-12	2,690.30	CVE	7.26	2,846.05	67.4
J-99	2,626.40	CN	0.00	2,782.20	67.4
J-121	2,625.90	CN	0.00	2,782.20	67.6
J-133	2,685.00	CVE	0.00	2,842.64	68.2
J-101	2,624.40	CN	0.53	2,782.20	68.3
J-11	2,690.30	CVE	4.15	2,848.17	68.3
J-124	2,624.30	CN	0.00	2,782.20	68.3
J-102	2,624.00	CN	0.00	2,782.20	68.4
J-40	2,667.60	CN	0.53	2,825.94	68.5
J-122	2,622.90	CN	0.00	2,782.20	68.9
J-116	2,622.60	CN	0.00	2,782.20	69.1
J-39	2,666.00	CVE	0.00	2,825.94	69.2
J-120	2,622.20	CN	0.00	2,782.20	69.2
J-117	2,622.10	CN	0.00	2,782.20	69.3
J-27	2,730.00	CVE	1.04	2,890.36	69.4
J-107	2,621.30	CN	0.00	2,782.20	69.6
J-118	2,621.30	CN	0.00	2,782.20	69.6
J-103	2,620.90	CN	0.00	2,782.20	69.8
J-108	2,620.50	CN	1.04	2,782.20	70.0
J-119	2,620.30	CN	0.00	2,782.20	70.0
J-38	2,664.00	CVE	0.00	2,825.94	70.1
J-115	2,620.00	CN	0.00	2,782.20	70.2
J-111	2,619.50	CN	0.00	2,782.20	70.4
J-106	2,619.30	CN	0.00	2,782.20	70.5
J-104	2,618.70	CN	0.00	2,782.20	70.7
J-114	2,617.80	CN	0.00	2,782.20	71.1
J-105	2,617.70	CN	1.04	2,782.20	71.2
J-109	2,617.70	CN	0.00	2,782.20	71.2
J-110	2,617.60	CN	0.00	2,782.20	71.2
J-112	2,616.20	CN	0.00	2,782.20	71.8
J-113	2,615.30	CN	0.53	2,782.20	72.2
J-9	2,676.00	CVE	0.53	2,843.08	72.3
J-8	2,676.00	CVE	4.67	2,845.79	73.5
J-86	2,720.00	CVE	0.53	2,890.36	73.7
J-92	2,672.00	CVE	4.15	2,843.36	74.1
J-93	2,664.00	CVE	0.22	2,842.64	77.3

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-130	CN	1,000.00	0.00	1,500.00	1,048.24	False	-19.0	-15.0	J-131
J-131	CN	1,000.00	0.00	1,500.00	1,060.47	False	-17.3	-15.0	J-130
J-129	CN	1,000.00	0.00	1,500.00	1,076.74	False	-14.6	-15.0	J-131
J-132	CN	1,000.00	0.53	1,500.53	1,089.12	False	-13.6	-10.8	J-131
J-128	CN	1,000.00	0.00	1,500.00	1,110.45	False	-9.8	-10.8	J-131
J-127	CN	1,000.00	1.04	1,501.04	1,150.39	False	-3.5	-6.4	J-131
J-126	CN	1,000.00	0.00	1,500.00	1,191.90	False	2.9	-2.0	J-131
J-124	CN	1,000.00	0.00	1,500.00	1,240.77	False	9.3	2.6	J-131
J-123	CN	1,000.00	0.00	1,500.00	1,249.57	False	1.0	5.5	J-131
J-121	CN	1,000.00	0.00	1,500.00	1,261.82	False	2.1	6.8	J-130
J-122	CN	1,000.00	0.00	1,500.00	1,274.99	False	12.8	5.5	J-130
J-120	CN	1,000.00	0.00	1,500.00	1,291.27	False	14.4	6.8	J-130
J-60	CN	1,000.00	0.00	1,500.00	1,739.21	True	25.6	29.7	J-61
J-59	CN	1,000.00	0.00	1,500.00	1,817.27	True	29.8	27.0	J-60
J-55	CN	1,000.00	0.00	1,500.00	1,859.65	True	33.9	27.7	J-60
J-58	CN	1,000.00	0.00	1,500.00	1,875.03	True	35.7	27.9	J-60
J-57	CN	1,000.00	0.00	1,500.00	1,875.03	True	31.7	27.9	J-60
J-54	CN	1,000.00	0.00	1,500.00	1,875.04	True	35.0	27.9	J-60
J-53	CN	1,000.00	0.00	1,500.00	1,898.85	True	36.6	28.3	J-60
J-52	CN	1,000.00	0.00	1,500.00	2,010.37	True	38.5	29.8	J-60

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-51	CN	1,000.00	0.53	1,500.53	2,183.23	True	43.4	31.7	J-60
J-75	CN	1,000.00	0.53	1,500.53	2,346.48	True	46.6	33.2	J-60
J-72	CN	1,000.00	0.00	1,500.00	2,378.01	True	43.0	33.4	J-60
J-71	CN	1,000.00	0.00	1,500.00	2,384.32	True	43.4	33.5	J-60
J-70	CN	1,000.00	1.57	1,501.57	2,402.29	True	47.5	33.6	J-60
J-50	CN	1,000.00	2.08	1,502.08	2,666.69	True	50.8	35.3	J-60
J-63	CN	1,000.00	0.00	1,500.00	2,765.42	True	51.8	35.9	J-60
J-119	CN	1,000.00	0.00	1,500.00	1,322.49	False	15.4	9.1	J-131
J-33	CVE	1,000.00	0.00	1,500.00	3,000.00	True	60.8	41.3	J-44
J-38	CVE	1,000.00	0.00	1,500.00	3,000.00	True	68.3	40.8	J-44
J-40	CN	1,000.00	0.53	1,500.53	3,000.53	True	66.4	40.5	J-44
J-135	CVE	0.00	0.00	1,500.00	3,000.00	True	41.9	27.9	J-134
J-137	CVE	0.00	0.00	1,500.00	3,000.00	True	42.1	28.2	J-134
J-134	CVE	0.00	0.00	1,500.00	3,000.00	True	27.4	42.0	J-136
J-35	CVE	1,000.00	0.00	1,500.00	3,000.00	True	60.8	40.9	J-44
J-36	CVE	1,000.00	0.00	1,500.00	3,000.00	True	63.7	40.9	J-44
J-37	CVE	1,000.00	0.00	1,500.00	3,000.00	True	65.4	40.8	J-44
J-43	CVE	1,000.00	0.53	1,500.53	3,000.53	True	42.4	39.5	J-44
J-42	CVE	1,000.00	2.60	1,502.60	3,002.60	True	48.6	39.6	J-44
J-45	CVE	1,000.00	1.56	1,501.56	3,001.56	True	42.0	38.9	J-44
J-138	CVE	0.00	0.00	1,500.00	3,000.00	True	55.1	28.8	J-134
J-41	CVE	1,000.00	1.56	1,501.56	3,001.56	True	58.9	40.1	J-44

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-136	CVE	0.00	0.00	1,500.00	3,000.00	True	41.6	28.0	J-134
J-34	CVE	1,000.00	0.00	1,500.00	3,000.00	True	56.6	41.0	J-44
J-39	CVE	1,000.00	0.00	1,500.00	3,000.00	True	67.1	40.5	J-44
J-44	CVE	1,000.00	1.04	1,501.04	3,001.04	True	38.5	42.5	J-43
J-62	CVE	1,000.00	0.00	1,500.00	3,000.00	True	46.6	39.6	J-44
J-32	CVE	1,000.00	0.00	1,500.00	3,000.00	True	59.6	41.4	J-44
J-118	CN	1,000.00	0.00	1,500.00	1,322.68	False	17.1	9.1	J-131
J-48	CN	1,000.00	13.17	1,513.17	3,013.17	True	53.0	40.2	J-60
J-46	CN	1,000.00	0.00	1,500.00	3,000.00	True	50.3	40.5	J-44
J-49	CN	1,000.00	0.53	1,500.53	3,000.53	True	56.0	38.1	J-60
J-47	CN	1,000.00	0.00	1,500.00	3,000.00	True	48.4	40.5	J-44
J-117	CN	1,000.00	0.00	1,500.00	1,362.19	False	19.6	11.9	J-130
J-116	CN	1,000.00	0.00	1,500.00	1,384.47	False	20.8	13.4	J-131
J-115	CN	1,000.00	0.00	1,500.00	1,488.58	False	28.0	19.4	J-130
J-112	CN	1,000.00	0.00	1,500.00	1,500.52	True	29.5	20.0	J-130
J-113	CN	1,000.00	0.53	1,500.53	1,502.24	True	29.6	20.1	J-130
J-111	CN	1,000.00	0.00	1,500.00	1,503.09	True	27.9	20.2	J-130
J-114	CN	1,000.00	0.00	1,500.00	1,504.52	True	28.2	20.2	J-130
J-110	CN	1,000.00	0.00	1,500.00	1,505.53	True	28.7	20.3	J-130
J-108	CN	1,000.00	1.04	1,501.04	1,507.26	True	27.0	20.3	J-130

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-109	CN	1,000.00	0.00	1,500.00	1,507.41	True	28.9	20.4	J-130
J-107	CN	1,000.00	0.00	1,500.00	1,507.95	True	25.9	20.4	J-130
J-105	CN	1,000.00	1.04	1,501.04	1,510.87	True	29.1	20.5	J-130
J-106	CN	1,000.00	0.00	1,500.00	1,510.88	True	27.9	20.6	J-131
J-104	CN	1,000.00	0.00	1,500.00	1,511.92	True	28.7	20.6	J-131
J-103	CN	1,000.00	0.00	1,500.00	1,513.57	True	28.2	20.7	J-130
J-100	CN	1,000.00	0.00	1,500.00	1,519.41	True	21.1	26.0	J-131
J-102	CN	1,000.00	0.00	1,500.00	1,523.57	True	28.0	21.2	J-130
J-101	CN	1,000.00	0.53	1,500.53	1,533.90	True	28.3	21.7	J-131
J-133	CVE	1,000.00	0.00	1,500.00	3,000.00	True	58.5	41.4	J-44
J-31	CVE	1,000.00	1.04	1,501.04	3,001.04	True	58.6	37.5	J-4
J-88	CVE	1,000.00	2.08	1,502.08	3,002.08	True	51.5	35.2	J-4
J-24	CVE	1,000.00	0.53	1,500.53	3,000.53	True	55.7	35.1	J-4
J-74	CN	1,000.00	0.53	1,500.53	2,367.92	True	44.3	33.3	J-60
J-90	CVE	1,000.00	1.04	1,501.04	3,001.04	True	59.1	38.0	J-4
J-25	CVE	1,000.00	0.53	1,500.53	3,000.53	True	54.7	35.2	J-4
J-89	CVE	1,000.00	1.04	1,501.04	3,001.04	True	51.5	35.3	J-4
J-20	CVE	1,000.00	3.12	1,503.12	1,866.05	True	27.3	33.2	J-4
J-99	CN	1,000.00	0.00	1,500.00	1,632.28	True	31.8	26.0	J-131
J-19	CVE	1,000.00	1.56	1,501.56	2,088.83	True	34.5	32.1	J-20

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-56	CN	1,000.00	1.58	1,501.58	1,657.80	True	24.9	27.7	J-60
J-18	CVE	1,000.00	3.12	1,503.12	2,000.70	True	33.4	29.1	J-20
J-98	CN	1,000.00	0.00	1,500.00	1,665.54	True	32.9	27.3	J-131
J-78	CVE	1,000.00	3.12	1,503.12	2,225.79	True	42.4	32.4	J-20
J-77	CVE	1,000.00	1.56	1,501.56	3,001.56	True	51.5	35.3	J-4
J-61	CN	1,000.00	0.00	1,500.00	1,731.87	True	26.1	27.0	J-60
J-8	CVE	1,000.00	4.67	1,504.67	1,890.87	True	36.6	34.6	J-4
J-91	CVE	1,000.00	0.53	1,500.53	3,000.53	True	56.5	35.4	J-4
J-3	CVE	1,000.00	0.00	1,500.00	1,308.90	False	19.8	17.3	J-4
J-10	CVE	1,000.00	2.60	1,502.60	2,428.14	True	43.5	34.0	J-4
J-29	CVE	1,000.00	3.12	1,503.12	2,809.69	True	39.4	34.5	J-4
J-16	CVE	1,000.00	2.60	1,502.60	1,714.07	True	27.0	33.2	J-15
J-14	CVE	1,000.00	2.08	1,502.08	1,811.29	True	30.1	34.0	J-4
J-13	CVE	1,000.00	1.04	1,501.04	1,889.62	True	34.7	32.0	J-14
J-6	CVE	1,000.00	4.15	1,504.15	2,190.56	True	37.3	33.8	J-4
J-5	CVE	1,000.00	5.73	1,505.73	2,023.46	True	29.8	31.9	J-4
J-95	CN	1,000.00	0.00	1,500.00	2,945.20	True	51.1	38.1	J-60
J-94	CN	1,000.00	0.00	1,500.00	3,000.00	True	55.0	38.1	J-60
J-17	CVE	1,000.00	3.12	1,503.12	2,339.56	True	40.8	32.9	J-20
J-15	CVE	1,000.00	3.12	1,503.12	1,866.67	True	33.2	30.8	J-16

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-21	CVE	1,000.00	2.08	1,502.08	1,964.15	True	31.2	32.9	J-20
J-30	CVE	1,000.00	2.08	1,502.08	3,002.08	True	45.8	34.9	J-4
J-97	CN	1,000.00	0.00	1,500.00	1,982.68	True	40.4	36.7	J-130
J-87	CVE	1,000.00	0.53	1,500.53	3,000.53	True	57.4	37.1	J-4
J-12	CVE	1,000.00	7.26	1,507.26	2,728.37	True	48.3	34.7	J-4
J-69	CN	1,000.00	0.53	1,500.53	2,017.08	True	35.1	35.3	J-60
J-96	CN	1,000.00	0.00	1,500.00	2,087.02	True	42.4	38.1	J-60
J-22	CVE	1,000.00	2.08	1,502.08	3,002.08	True	51.7	34.9	J-4
J-66	CN	1,000.00	2.08	1,502.08	2,118.95	True	37.1	35.3	J-60
J-68	CN	1,000.00	0.00	1,500.00	2,157.71	True	37.7	35.3	J-60
J-7	CVE	1,000.00	2.08	1,502.08	1,856.78	True	32.0	34.0	J-4
J-76	CN	1,000.00	0.00	1,500.00	2,212.34	True	38.2	33.3	J-60
J-64	CN	1,000.00	0.53	1,500.53	2,219.99	True	39.1	35.9	J-60
J-28	CVE	1,000.00	3.63	1,503.63	1,873.55	True	27.9	29.3	J-4
J-9	CVE	1,000.00	0.53	1,500.53	2,918.17	True	54.2	35.4	J-4
J-11	CVE	1,000.00	4.15	1,504.15	2,186.43	True	41.1	34.2	J-4
J-67	CN	1,000.00	0.00	1,500.00	2,314.42	True	40.2	35.3	J-60
J-86	CVE	1,000.00	0.53	1,500.53	1,062.70	False	-8.3	-9.3	J-27
J-27	CVE	1,000.00	1.04	1,501.04	1,063.21	False	-9.3	-5.0	J-86
J-73	CN	1,000.00	0.53	1,500.53	2,341.83	True	39.9	33.4	J-60

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-23	CVE	1,000.00	1.04	1,501.04	3,001.04	True	51.4	34.8	J-4
J-4	CVE	1,000.00	2.08	1,502.08	1,047.80	False	12.0	22.3	J-3
J-65	CN	1,000.00	1.04	1,501.04	2,665.66	True	45.6	35.3	J-60
J-93	CVE	1,000.00	0.22	1,500.22	2,857.82	True	57.1	35.7	J-4
J-26	CVE	1,000.00	2.60	1,502.60	2,082.01	True	29.9	24.6	J-4
J-92	CVE	1,000.00	4.15	1,504.15	2,629.12	True	52.2	35.2	J-4

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-134	2,756.00	CVE	0.00	2,825.70	30.2
J-4	2,807.80	CVE	3.63	2,896.87	38.5
J-44	2,728.00	CVE	1.82	2,825.69	42.3
J-3	2,803.00	CVE	0.00	2,900.38	42.1
J-60	2,681.60	CN	0.00	2,782.19	43.5
J-136	2,724.00	CVE	0.00	2,825.70	44.0
J-135	2,723.00	CVE	0.00	2,825.70	44.4
J-137	2,723.00	CVE	0.00	2,825.70	44.4
J-43	2,721.20	CVE	0.93	2,825.70	45.2
J-45	2,719.50	CVE	2.72	2,825.69	45.9
J-61	2,675.40	CN	0.00	2,782.19	46.2
J-59	2,675.20	CN	0.00	2,782.19	46.3
J-20	2,739.50	CVE	5.46	2,850.10	47.9
J-57	2,668.00	CN	0.00	2,782.19	49.4
J-62	2,711.70	CVE	0.00	2,825.70	49.3
J-56	2,667.80	CN	2.76	2,782.19	49.5
J-55	2,667.30	CN	0.00	2,782.19	49.7
J-5	2,743.10	CVE	10.02	2,856.45	49.0
J-46	2,665.60	CN	0.00	2,782.21	50.5
J-54	2,665.30	CN	0.00	2,782.19	50.6
J-47	2,664.50	CN	0.00	2,782.20	50.9
J-42	2,707.00	CVE	4.54	2,825.69	51.4
J-53	2,662.30	CN	0.00	2,782.19	51.9
J-52	2,661.40	CN	0.00	2,782.19	52.3
J-18	2,729.60	CVE	5.46	2,850.10	52.1
J-29	2,726.70	CVE	5.46	2,847.77	52.4
J-21	2,723.10	CVE	3.63	2,847.84	54.0
J-28	2,749.60	CVE	6.35	2,874.94	54.2
J-51	2,654.70	CN	0.93	2,782.19	55.2
J-58	2,654.00	CN	0.00	2,782.19	55.5
J-73	2,653.90	CN	0.93	2,782.19	55.5
J-76	2,653.60	CN	0.00	2,782.19	55.6
J-69	2,653.10	CN	0.93	2,782.19	55.9
J-72	2,652.40	CN	0.00	2,782.19	56.2
J-68	2,652.20	CN	0.00	2,782.19	56.2
J-66	2,652.00	CN	3.63	2,782.19	56.3
J-67	2,652.00	CN	0.00	2,782.19	56.3
J-48	2,652.00	CN	23.04	2,782.20	56.3
J-71	2,651.70	CN	0.00	2,782.19	56.5
J-74	2,651.50	CN	0.93	2,782.19	56.5
J-138	2,695.00	CVE	0.00	2,825.70	56.5
J-75	2,650.50	CN	0.93	2,782.19	57.0
J-64	2,650.20	CN	0.93	2,782.19	57.1
J-70	2,649.40	CN	2.74	2,782.19	57.5
J-19	2,717.20	CVE	2.72	2,848.42	56.8

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-65	2,648.80	CN	1.82	2,782.19	57.7
J-34	2,692.00	CVE	0.00	2,825.70	57.8
J-26	2,755.90	CVE	4.54	2,889.30	57.7
J-16	2,714.20	CVE	4.54	2,847.79	57.8
J-30	2,709.90	CVE	3.63	2,844.41	58.2
J-17	2,713.50	CVE	5.46	2,847.84	58.1
J-50	2,645.80	CN	3.63	2,782.19	59.0
J-63	2,644.70	CN	0.00	2,782.19	59.5
J-32	2,686.00	CVE	0.00	2,825.70	60.4
J-6	2,709.00	CVE	7.27	2,847.23	59.8
J-14	2,709.00	CVE	3.63	2,847.43	59.9
J-15	2,708.60	CVE	5.46	2,847.79	60.2
J-41	2,684.00	CVE	2.72	2,825.69	61.3
J-49	2,640.20	CN	0.93	2,782.19	61.4
J-130	2,639.80	CN	0.00	2,782.19	61.6
J-131	2,639.80	CN	0.00	2,782.19	61.6
J-90	2,687.00	CVE	1.82	2,829.05	61.5
J-132	2,639.60	CN	0.93	2,782.19	61.7
J-94	2,639.40	CN	0.00	2,782.19	61.8
J-33	2,683.00	CVE	0.00	2,825.70	61.7
J-88	2,702.00	CVE	3.63	2,843.53	61.2
J-129	2,638.80	CN	0.00	2,782.19	62.0
J-77	2,701.00	CVE	2.72	2,843.05	61.5
J-89	2,701.00	CVE	1.82	2,843.19	61.5
J-35	2,682.00	CVE	0.00	2,825.70	62.2
J-128	2,637.50	CN	0.00	2,782.19	62.6
J-31	2,688.00	CVE	1.82	2,832.25	62.4
J-22	2,700.00	CVE	3.63	2,844.08	62.3
J-87	2,689.00	CVE	0.93	2,833.93	62.7
J-95	2,636.40	CN	0.00	2,782.19	63.1
J-7	2,702.00	CVE	3.63	2,846.33	62.4
J-13	2,702.70	CVE	1.82	2,847.43	62.6
J-78	2,701.70	CVE	5.46	2,848.16	63.4
J-127	2,633.10	CN	1.82	2,782.19	64.5
J-96	2,631.80	CN	0.00	2,782.19	65.1
J-25	2,694.30	CVE	0.93	2,843.46	64.5
J-97	2,631.30	CN	0.00	2,782.19	65.3
J-36	2,675.00	CVE	0.00	2,825.70	65.2
J-100	2,631.00	CN	0.00	2,782.19	65.4
J-23	2,694.30	CVE	1.82	2,844.18	64.8
J-10	2,697.10	CVE	4.54	2,847.08	64.9
J-24	2,692.90	CVE	0.93	2,843.44	65.1
J-126	2,628.50	CN	0.00	2,782.19	66.5
J-91	2,690.00	CVE	0.93	2,842.42	65.9
J-37	2,671.00	CVE	0.00	2,825.70	66.9

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-98	2,626.90	CN	0.00	2,782.19	67.2
J-123	2,626.60	CN	0.00	2,782.19	67.3
J-12	2,690.30	CVE	12.71	2,844.42	66.7
J-99	2,626.40	CN	0.00	2,782.19	67.4
J-121	2,625.90	CN	0.00	2,782.19	67.6
J-133	2,685.00	CVE	0.00	2,841.26	67.6
J-101	2,624.40	CN	0.93	2,782.19	68.3
J-11	2,690.30	CVE	7.27	2,846.35	67.5
J-124	2,624.30	CN	0.00	2,782.19	68.3
J-102	2,624.00	CN	0.00	2,782.19	68.4
J-40	2,667.60	CN	0.93	2,825.69	68.4
J-122	2,622.90	CN	0.00	2,782.19	68.9
J-116	2,622.60	CN	0.00	2,782.19	69.0
J-39	2,666.00	CVE	0.00	2,825.70	69.1
J-120	2,622.20	CN	0.00	2,782.19	69.2
J-117	2,622.10	CN	0.00	2,782.19	69.3
J-27	2,730.00	CVE	1.82	2,889.30	68.9
J-107	2,621.30	CN	0.00	2,782.19	69.6
J-118	2,621.30	CN	0.00	2,782.19	69.6
J-103	2,620.90	CN	0.00	2,782.19	69.8
J-108	2,620.50	CN	1.82	2,782.19	70.0
J-119	2,620.30	CN	0.00	2,782.19	70.0
J-38	2,664.00	CVE	0.00	2,825.70	70.0
J-115	2,620.00	CN	0.00	2,782.19	70.2
J-111	2,619.50	CN	0.00	2,782.19	70.4
J-106	2,619.30	CN	0.00	2,782.19	70.5
J-104	2,618.70	CN	0.00	2,782.19	70.7
J-114	2,617.80	CN	0.00	2,782.19	71.1
J-105	2,617.70	CN	1.82	2,782.19	71.2
J-109	2,617.70	CN	0.00	2,782.19	71.2
J-110	2,617.60	CN	0.00	2,782.19	71.2
J-112	2,616.20	CN	0.00	2,782.19	71.8
J-113	2,615.30	CN	0.93	2,782.19	72.2
J-9	2,676.00	CVE	0.93	2,841.64	71.7
J-8	2,676.00	CVE	8.17	2,844.08	72.7
J-86	2,720.00	CVE	0.93	2,889.30	73.2
J-92	2,672.00	CVE	7.27	2,841.89	73.5
J-93	2,664.00	CVE	0.39	2,841.26	76.7

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-5	1,313.26	6.0	690.22	7.83	40.04	145.0
P-30	916.00	6.0	678.99	7.70	27.10	145.0
P-29	476.00	6.0	684.17	7.76	14.28	145.0
P-88	498.74	6.0	582.24	6.61	11.10	145.0
P-91	360.08	6.0	690.10	7.83	10.97	145.0
P-6	2,190.47	6.0	236.49	2.68	9.19	145.0
P-170	1,035.08	8.0	680.05	4.34	7.56	145.0
P-19	466.00	6.0	445.57	5.06	6.32	145.0
P-87	596.78	6.0	333.31	3.78	4.73	145.0
P-23	506.57	6.0	326.94	3.71	3.87	145.0
P-111	151.29	8.0	1,258.56	8.03	3.45	145.0
P-114	144.39	8.0	1,260.05	8.04	3.30	145.0
P-4	112.81	6.0	693.18	7.87	3.47	145.0
P-31	404.00	6.0	341.24	3.87	3.34	145.0
P-118	1,242.58	6.0	151.75	1.72	2.29	145.0
P-178	1,154.34	6.0	158.40	1.80	2.30	145.0
P-18	460.00	6.0	258.60	2.93	2.28	145.0
P-12	1,223.65	6.0	142.70	1.62	2.01	145.0
P-109	238.67	8.0	679.30	4.34	1.74	145.0
P-20	676.00	6.0	178.09	2.02	1.68	145.0
P-167	251.55	8.0	535.29	3.42	1.18	145.0
P-115	221.30	8.0	536.04	3.42	1.04	145.0
P-112	440.34	8.0	338.28	2.16	0.88	145.0
P-11	421.99	6.0	148.62	1.69	0.75	145.0
P-120	1,858.08	2.0	3.49	0.36	0.67	145.0
P-25	194.88	8.0	454.86	2.90	0.68	145.0
P-177	232.17	6.0	161.35	1.83	0.48	145.0
P-176	209.83	6.0	161.35	1.83	0.43	145.0
P-169	1,020.98	8.0	141.58	0.90	0.41	145.0
P-174	309.08	8.0	252.63	1.61	0.36	145.0
P-13	603.06	6.0	83.10	0.94	0.36	145.0
P-90	681.61	6.0	75.75	0.86	0.35	145.0
P-15	550.23	6.0	87.54	0.99	0.37	145.0
P-89	460.78	6.0	95.68	1.09	0.36	145.0
P-116	737.85	8.0	132.36	0.84	0.26	145.0
P-119	160.37	6.0	142.34	1.62	0.26	145.0
P-117	423.02	8.0	175.87	1.12	0.25	145.0
P-113	124.15	8.0	251.15	1.60	0.14	145.0
P-10	356.13	6.0	69.22	0.79	0.15	145.0
P-24	305.47	8.0	130.87	0.84	0.11	145.0
P-175	390.92	8.0	82.69	0.53	0.06	145.0
P-26	167.85	8.0	81.94	0.52	0.02	145.0
P-50	1,202.00	12.0	42.63	0.12	0.01	145.0
P-51	916.35	14.0	42.63	0.09	0.00	145.0
P-52	2,299.15	14.0	23.87	0.05	0.00	145.0
P-41	1,357.56	16.0	39.15	0.06	0.00	145.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-69	1,158.00	12.0	16.41	0.05	0.00	145.0
P-123	772.23	8.0	6.71	0.04	0.00	145.0
P-181	1,227.31	12.0	14.60	0.04	0.00	145.0
P-36	561.81	16.0	53.75	0.09	0.00	145.0
P-182	1,021.48	12.0	14.60	0.04	0.00	145.0
P-125	685.47	8.0	6.71	0.04	0.00	145.0
P-185	971.17	12.0	14.60	0.04	0.00	145.0
P-28	906.00	6.0	2.24	0.03	0.00	145.0
P-183	218.67	12.0	14.60	0.04	0.00	145.0
P-156	951.30	10.0	2.23	0.01	0.00	145.0
P-77	900.63	12.0	7.51	0.02	0.00	145.0
P-72	285.66	8.0	5.19	0.03	0.00	145.0
P-37	412.72	16.0	39.15	0.06	0.00	145.0
P-35	154.88	16.0	53.75	0.09	0.00	145.0
P-122	1,137.37	10.0	6.71	0.03	0.00	145.0
P-126	280.26	10.0	6.71	0.03	0.00	145.0
P-173	789.89	8.0	3.18	0.02	0.00	145.0
P-128	937.06	10.0	6.70	0.03	0.00	145.0
P-38	240.00	16.0	39.15	0.06	0.00	145.0
P-39	240.00	16.0	39.15	0.06	0.00	145.0
P-49(1)	59.84	12.0	42.63	0.12	0.00	145.0
P-14	140.00	8.0	2.96	0.02	0.00	145.0
P-16	276.77	8.0	3.70	0.02	0.00	145.0
P-21	394.99	10.0	4.44	0.02	0.00	145.0
P-22	394.99	8.0	2.96	0.02	0.00	145.0
P-40	240.00	16.0	39.15	0.06	0.00	145.0
P-42	204.00	16.0	39.15	0.06	0.00	145.0
P-43	614.02	12.0	4.24	0.01	0.00	145.0
P-44	773.51	12.0	6.45	0.02	0.00	145.0
P-46	608.72	10.0	3.63	0.01	0.00	145.0
P-47	410.01	10.0	2.15	0.01	0.00	145.0
P-48	873.02	10.0	0.07	0.00	0.00	145.0
P-55	1,010.01	12.0	2.26	0.01	0.00	145.0
P-56	797.00	12.0	2.26	0.01	0.00	145.0
P-57	188.00	12.0	2.26	0.01	0.00	145.0
P-58	125.00	12.0	2.25	0.01	0.00	145.0
P-59	637.43	8.0	2.25	0.01	0.00	145.0
P-60	1,121.78	12.0	0.00	0.00	0.00	145.0
P-61	1,083.49	12.0	0.00	0.00	0.00	145.0
P-64	360.88	12.0	0.00	0.00	0.00	145.0
P-65	301.27	10.0	0.00	0.00	0.00	145.0
P-66	262.46	8.0	0.00	0.00	0.00	145.0
P-67	172.55	12.0	10.22	0.03	0.00	145.0
P-68	212.62	14.0	10.22	0.02	0.00	145.0
P-70	280.00	12.0	15.66	0.04	0.00	145.0
P-71	756.76	8.0	0.75	0.00	0.00	145.0

GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-73	519.78	8.0	2.96	0.02	0.00	145.0
P-74	291.65	8.0	0.75	0.00	0.00	145.0
P-75	176.84	8.0	0.00	0.00	0.00	145.0
P-76	340.27	8.0	0.75	0.00	0.00	145.0
P-79	712.65	8.0	0.86	0.01	0.00	145.0
P-80	280.00	8.0	0.86	0.01	0.00	145.0
P-81	185.05	8.0	0.75	0.00	0.00	145.0
P-82	358.55	8.0	0.11	0.00	0.00	145.0
P-83	281.89	12.0	4.41	0.01	0.00	145.0
P-84	766.56	12.0	3.01	0.01	0.00	145.0
P-85	323.18	8.0	0.65	0.00	0.00	145.0
P-86	374.87	8.0	0.00	0.00	0.00	145.0
P-108	240.00	8.0	0.75	0.00	0.00	145.0
P-121	282.00	10.0	6.71	0.03	0.00	145.0
P-124	162.89	8.0	6.71	0.04	0.00	145.0
P-127	638.60	8.0	0.00	0.00	0.00	145.0
P-129	248.63	12.0	5.95	0.02	0.00	145.0
P-130	1,139.85	12.0	3.23	0.01	0.00	145.0
P-131	627.46	12.0	1.97	0.01	0.00	145.0
P-132	336.38	10.0	1.97	0.01	0.00	145.0
P-133	626.97	8.0	0.52	0.00	0.00	145.0
P-134	501.15	8.0	0.74	0.00	0.00	145.0
P-135	324.00	8.0	0.74	0.00	0.00	145.0
P-136	1,127.66	8.0	0.37	0.00	0.00	145.0
P-137	324.00	10.0	0.64	0.00	0.00	145.0
P-138	1,127.19	8.0	0.24	0.00	0.00	145.0
P-139	97.78	8.0	0.13	0.00	0.00	145.0
P-140	193.20	10.0	0.35	0.00	0.00	145.0
P-141	1,126.78	10.0	0.40	0.00	0.00	145.0
P-142	289.82	10.0	0.40	0.00	0.00	145.0
P-143	643.54	10.0	0.48	0.00	0.00	145.0
P-144	1,054.14	10.0	2.72	0.01	0.00	145.0
P-145	1,305.51	10.0	2.24	0.01	0.00	145.0
P-146	317.35	10.0	2.24	0.01	0.00	145.0
P-147	600.10	10.0	2.24	0.01	0.00	145.0
P-148	480.00	10.0	0.00	0.00	0.00	145.0
P-149	515.15	10.0	2.24	0.01	0.00	145.0
P-150	780.37	8.0	0.00	0.00	0.00	145.0
P-151	280.54	10.0	2.24	0.01	0.00	145.0
P-152	740.57	8.0	0.00	0.00	0.00	145.0
P-153	621.53	10.0	2.23	0.01	0.00	145.0
P-155	981.08	10.0	2.23	0.01	0.00	145.0
P-157	965.00	10.0	0.75	0.00	0.00	145.0
P-158	310.00	8.0	0.00	0.00	0.00	145.0
P-159	290.00	8.0	0.00	0.00	0.00	145.0
P-160	165.00	8.0	0.00	0.00	0.00	145.0

**GBWC-PD 2024 IRP - Calvada North/Country View Estates System
Preferred (2044) PHD Condition Distribution System Pipe Report
Pipe Table - Velocity - Time: 0.00 hours**

Label	Length (Scaled) (ft)	Diameter (in)	Flow (Absolute) (gpm)	Velocity (ft/s)	Headloss (ft)	Hazen-Williams C
P-161	634.37	10.0	0.75	0.00	0.00	145.0
P-162	324.00	8.0	0.37	0.00	0.00	145.0
P-163	324.00	10.0	1.01	0.00	0.00	145.0
P-164	334.16	8.0	1.26	0.01	0.00	145.0
P-184	185.61	12.0	14.60	0.04	0.00	145.0
P-186	123.92	12.0	14.60	0.04	0.00	145.0
P-49(2)	60.18	12.0	42.63	0.12	0.00	145.0

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1081	2,760.00	MF	0.00	2,894.84	58.34
J-1082	2,758.00	MF	6.61	2,897.15	60.20
J-1080	2,760.00	MF	0.00	2,900.89	60.96
J-1083	2,755.00	MF	0.00	2,901.62	63.43
J-1079	2,756.00	MF	0.00	2,902.63	63.44
J-1112	2,754.29	MF	0.00	2,903.65	64.62
J-1111	2,754.00	MF	0.00	2,908.11	66.68
J-1110	2,753.00	MF	0.00	2,908.11	67.11
J-1218	2,747.00	MF	0.00	2,902.63	67.34
J-1084	2,749.00	MF	0.00	2,904.77	67.39
J-1108	2,752.00	MF	0.00	2,908.11	67.54
J-1109	2,752.00	MF	0.00	2,908.11	67.54
J-1078	2,746.00	MF	0.00	2,902.63	67.77
J-1107	2,748.00	MF	0.00	2,908.11	69.27
J-556	2,760.00	MF	3.48	2,923.23	70.62
J-1106	2,746.00	MF	0.00	2,910.45	71.15
J-1103	2,747.00	MF	0.00	2,912.74	71.71
J-1104	2,747.00	MF	0.00	2,912.74	71.71
J-1105	2,747.00	MF	0.00	2,912.74	71.71
J-1085	2,742.00	MF	0.00	2,907.85	71.75
J-1124	2,750.00	MF	0.00	2,917.87	72.63
J-555	2,755.00	MF	3.48	2,923.21	72.78
J-1123	2,749.00	MF	0.00	2,917.87	73.06
J-1087	2,741.00	MF	0.00	2,911.36	73.70
J-1086	2,740.00	MF	6.61	2,911.36	74.14
J-1094	2,744.00	MF	0.00	2,915.66	74.27
J-553	2,752.00	MF	0.00	2,923.20	74.07
J-1120	2,746.00	MF	2.18	2,917.87	74.36
J-1122	2,746.00	MF	0.00	2,917.87	74.36
J-1091	2,743.00	MF	6.61	2,915.63	74.69
J-1093	2,743.00	MF	0.00	2,915.66	74.70
J-1121	2,745.00	MF	0.00	2,917.87	74.79
J-1088	2,739.00	MF	0.00	2,912.15	74.91
J8	2,748.00	MF	0.00	2,921.01	74.85
J5	2,750.00	MF	0.00	2,923.17	74.92
J-1066	2,749.00	MF	0.00	2,922.34	75.00
J-1098	2,742.00	MF	0.00	2,915.73	75.16
J-703	2,743.79	MF	0.00	2,917.80	75.29
J-704	2,743.64	MF	0.00	2,917.80	75.35
J-705	2,743.35	MF	0.00	2,917.80	75.48
J-1067	2,748.00	MF	0.00	2,922.34	75.43
J-1071	2,748.00	MF	0.00	2,922.35	75.43
J-554	2,749.00	MF	3.48	2,923.20	75.37
J-1102	2,741.00	MF	0.00	2,915.80	75.63
J-1119	2,743.00	MF	0.00	2,917.87	75.66

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-712	2,742.56	MF	0.00	2,917.80	75.82
J-347	2,743.00	MF	0.00	2,918.29	75.84
J-702	2,742.22	MF	0.00	2,917.80	75.97
J-1092	2,740.00	MF	0.00	2,915.66	76.00
J-1070	2,747.00	MF	0.00	2,922.35	75.86
J-706	2,741.99	MF	0.00	2,917.81	76.07
J-1101	2,740.00	MF	0.00	2,915.80	76.06
J-1118	2,742.00	MF	0.00	2,917.86	76.09
J-711	2,741.87	MF	0.00	2,917.80	76.12
J-713	2,741.46	MF	0.00	2,917.81	76.30
J-707	2,741.15	MF	0.00	2,917.81	76.43
J6	2,747.00	MF	0.00	2,923.17	76.22
J-1074	2,746.00	MF	0.00	2,922.36	76.30
J-1097	2,739.00	MF	0.00	2,915.73	76.46
J17	2,740.72	MF	5.33	2,917.80	76.61
J-714	2,740.53	MF	0.00	2,917.81	76.70
J-501	2,746.00	MF	0.00	2,922.85	76.51
J-493	2,741.00	MF	0.00	2,918.26	76.69
J-708	2,740.39	MF	0.00	2,917.81	76.76
J-1062	2,745.00	MF	0.00	2,922.33	76.72
J-1069	2,745.00	MF	8.06	2,922.35	76.73
J3	2,746.00	MF	0.00	2,923.26	76.69
J-1117	2,740.00	MF	0.00	2,917.85	76.95
J-715	2,739.73	MF	0.00	2,917.81	77.05
J-557	2,745.67	MF	0.00	2,923.25	76.83
J-709	2,739.59	MF	0.00	2,917.81	77.11
J-563	2,745.25	MF	5.14	2,923.24	77.01
J-1063	2,744.00	MF	0.00	2,922.33	77.16
J-1065	2,744.00	MF	0.00	2,922.34	77.16
J-1073	2,744.00	MF	0.00	2,922.36	77.17
J-1095	2,737.00	MF	0.00	2,915.70	77.31
J-1096	2,737.00	MF	0.00	2,915.73	77.33
J-1099	2,737.00	MF	0.00	2,915.77	77.34
J-710	2,738.98	MF	0.00	2,917.81	77.37
J-1100	2,737.00	MF	0.00	2,915.80	77.36
J-1116	2,739.00	MF	2.18	2,917.85	77.38
GC-3	2,744.45	MF	0.00	2,923.22	77.35
J-1068	2,743.00	MF	0.00	2,922.34	77.59
J-1072	2,743.00	MF	0.00	2,922.36	77.60
J-716	2,738.06	MF	0.00	2,917.82	77.77
J-717	2,737.80	MF	0.00	2,917.82	77.88
J-726	2,737.80	MF	0.00	2,917.82	77.89
J-552	2,743.53	MF	0.00	2,923.19	77.73
J-727	2,737.20	MF	0.00	2,917.82	78.15
J-1138	2,737.00	MF	0.00	2,917.65	78.16

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1159	2,737.00	MF	4.42	2,917.68	78.17
J-1161	2,737.00	MF	0.00	2,917.68	78.17
J-1153	2,737.00	MF	0.00	2,917.68	78.17
J-500	2,743.00	MF	0.00	2,923.16	77.95
J-1059	2,742.00	MF	0.00	2,922.32	78.02
J4	2,743.00	MF	0.00	2,923.17	77.95
J-1064	2,742.00	MF	0.00	2,922.34	78.02
J-1077	2,742.00	MF	0.00	2,922.36	78.04
J-718	2,737.02	MF	0.00	2,917.82	78.22
J-374	2,736.93	MF	0.00	2,917.78	78.25
J-719	2,736.92	MF	0.00	2,917.82	78.27
J-1113	2,737.00	MF	2.18	2,917.88	78.26
J-1137	2,736.00	MF	4.74	2,917.65	78.59
J-1139	2,736.00	MF	0.00	2,917.65	78.59
J-1141	2,736.00	MF	0.00	2,917.65	78.59
J-1160	2,736.00	MF	0.00	2,917.68	78.61
J-1158	2,736.00	MF	0.00	2,917.68	78.61
J-1154	2,736.00	MF	0.00	2,917.68	78.61
J-1060	2,741.00	MF	0.00	2,922.33	78.45
J-1061	2,741.00	MF	0.00	2,922.33	78.45
J-1115	2,736.00	MF	0.00	2,917.84	78.67
J-1114	2,736.00	MF	0.00	2,917.84	78.67
J-720	2,735.94	MF	0.00	2,917.82	78.69
J-1089	2,734.00	MF	0.00	2,915.86	78.68
J-1090	2,734.00	MF	0.00	2,915.92	78.71
J-370	2,736.00	MF	0.00	2,917.96	78.72
J-728	2,735.66	MF	0.00	2,917.82	78.81
J-1136	2,735.00	MF	0.00	2,917.65	79.03
J-1058	2,740.00	MF	0.00	2,922.32	78.88
J-729	2,735.09	MF	0.00	2,917.82	79.06
J-721	2,735.04	MF	0.00	2,917.82	79.08
J-1056	2,739.00	MF	0.00	2,922.27	79.29
J-1140	2,734.00	MF	0.00	2,917.65	79.46
J-1156	2,734.00	MF	4.42	2,917.68	79.47
J-1151	2,734.00	MF	0.00	2,917.68	79.47
J-1149	2,734.00	MF	0.00	2,917.69	79.47
J-1150	2,734.00	MF	0.00	2,917.69	79.47
J-1076	2,739.00	MF	0.00	2,922.38	79.34
J30	2,734.00	MF	0.00	2,917.76	79.50
J52	2,734.00	MF	0.00	2,917.78	79.52
J-730	2,733.82	MF	0.00	2,917.83	79.61
J-346	2,733.00	MF	0.00	2,917.60	79.87
J-1135	2,733.00	MF	0.00	2,917.66	79.89
J-1134	2,733.00	MF	0.00	2,917.66	79.89
J-1162	2,733.00	MF	0.00	2,917.68	79.90

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1155	2,733.00	MF	0.00	2,917.68	79.90
J-1152	2,733.00	MF	0.00	2,917.68	79.90
J-1148	2,733.00	MF	0.00	2,917.69	79.90
J-1057	2,738.00	MF	8.06	2,922.32	79.75
J-1039	2,738.00	MF	0.00	2,922.36	79.76
J-722	2,733.05	MF	5.33	2,917.83	79.94
J-731	2,732.58	MF	0.00	2,917.83	80.15
J-1040	2,737.00	MF	0.00	2,922.24	80.15
J-492	2,732.00	MF	0.00	2,917.60	80.30
J-1055	2,737.00	MF	0.00	2,922.27	80.16
J-1142	2,732.00	MF	0.00	2,917.65	80.32
J-1130	2,732.00	MF	0.00	2,917.66	80.33
J-1147	2,732.00	MF	0.00	2,917.69	80.34
J-1075	2,737.00	MF	0.00	2,922.34	80.19
J-1037	2,737.00	MF	0.00	2,922.36	80.20
J-732	2,732.02	MF	0.00	2,917.83	80.39
J-1049	2,736.00	MF	0.00	2,922.12	80.52
J-1041	2,736.00	MF	0.00	2,922.18	80.55
J-1051	2,736.00	MF	0.00	2,922.21	80.56
J-1053	2,736.00	MF	0.00	2,922.25	80.58
J-1054	2,736.00	MF	0.00	2,922.27	80.59
J-1143	2,731.00	MF	0.00	2,917.65	80.76
J-1038	2,736.00	MF	0.00	2,922.36	80.63
J27	2,736.00	MF	0.00	2,922.44	80.66
J-733	2,730.74	MF	0.00	2,917.83	80.95
J-723	2,730.64	MF	0.00	2,917.83	80.99
J-1042	2,735.00	MF	0.00	2,922.16	80.97
J-1050	2,735.00	MF	0.00	2,922.21	81.00
J-1052	2,735.00	MF	0.00	2,922.21	81.00
J-724	2,730.24	MF	0.00	2,917.83	81.16
J-1125	2,730.00	MF	4.74	2,917.65	81.19
J-1132	2,730.00	MF	0.00	2,917.66	81.19
J-1146	2,730.00	MF	4.42	2,917.69	81.20
J-1176	2,730.00	MF	0.00	2,917.77	81.24
J-491	2,735.00	MF	0.00	2,922.39	81.07
J-725	2,729.79	MF	0.00	2,917.83	81.36
J-744	2,729.58	MF	0.00	2,917.84	81.45
J-1045	2,734.00	MF	0.00	2,922.11	81.38
J-1047	2,734.00	MF	0.00	2,922.11	81.39
J-562	2,729.17	MF	5.14	2,917.63	81.54
J-1131	2,729.00	MF	0.00	2,917.66	81.62
J-1170	2,729.00	MF	0.00	2,917.77	81.67
GC-1	2,735.00	MF	0.00	2,923.26	81.45
J-1035	2,733.00	MF	0.00	2,921.58	81.59
J-734	2,728.87	MF	0.00	2,917.84	81.76

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J-745	2,728.65	MF	0.00	2,917.84	81.85
J-746	2,728.41	MF	0.00	2,917.84	81.96
J-1046	2,733.00	MF	8.06	2,922.08	81.81
J-1048	2,733.00	MF	0.00	2,922.12	81.82
J-1043	2,733.00	MF	0.00	2,922.13	81.83
J-304	2,733.00	MF	0.00	2,922.16	81.84
J-735	2,728.25	MF	0.00	2,917.84	82.03
J-1133	2,728.00	MF	0.00	2,917.66	82.06
J-1144	2,728.00	MF	0.00	2,917.68	82.07
J-1018	2,732.00	MF	0.00	2,921.58	82.02
J-736	2,727.74	MF	0.00	2,917.84	82.25
J-1044	2,732.00	MF	0.00	2,922.12	82.26
J-747	2,727.25	MF	0.00	2,917.84	82.46
J-384	2,727.00	MF	0.00	2,917.65	82.48
J-1126	2,727.00	MF	0.00	2,917.66	82.49
J-1127	2,727.00	MF	0.00	2,917.66	82.49
J-1157	2,727.00	MF	0.00	2,917.68	82.50
J-1173	2,727.00	MF	0.00	2,917.77	82.54
J-1032	2,731.00	MF	0.00	2,921.58	82.46
J-1036	2,731.00	MF	0.00	2,921.58	82.46
J-1019	2,731.00	MF	0.00	2,921.58	82.46
J-737	2,726.61	MF	0.00	2,917.84	82.74
J-495	2,726.00	MF	0.00	2,917.66	82.92
J-1128	2,726.00	MF	4.74	2,917.66	82.92
J-1145	2,726.00	MF	0.00	2,917.69	82.93
J-1168	2,726.00	MF	0.00	2,917.77	82.97
J-1169	2,726.00	MF	0.00	2,917.77	82.97
J-1033	2,730.00	MF	0.00	2,921.58	82.89
J-1034	2,730.00	MF	0.00	2,921.58	82.89
J-1029	2,730.00	MF	0.00	2,921.58	82.89
J29	2,730.00	MF	0.00	2,921.91	83.03
J-748	2,725.58	MF	0.00	2,917.85	83.19
J-302	2,730.00	MF	0.00	2,921.99	83.07
J-303	2,730.00	MF	0.00	2,922.02	83.08
J-1216	2,729.00	MF	0.00	2,921.18	83.15
J-1129	2,725.00	MF	0.00	2,917.66	83.36
J-390	2,725.00	MF	0.00	2,917.67	83.36
J-1167	2,725.00	MF	0.00	2,917.77	83.40
J-1172	2,725.00	MF	0.00	2,917.77	83.40
J-1030	2,729.00	MF	0.00	2,921.58	83.32
J-1020	2,729.00	MF	5.10	2,921.58	83.32
J-1017	2,729.00	MF	0.00	2,921.58	83.32
J-1022	2,729.00	MF	0.00	2,921.58	83.32
J-738	2,724.75	MF	0.00	2,917.85	83.54
J-1217	2,728.00	MF	0.00	2,921.25	83.61

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J-1174	2,724.00	MF	0.00	2,917.77	83.83
J-1031	2,728.00	MF	5.10	2,921.58	83.75
J-1026	2,728.00	MF	0.00	2,921.58	83.75
J-1028	2,728.00	MF	0.00	2,921.58	83.75
J-1027	2,728.00	MF	0.00	2,921.58	83.75
J-749	2,723.86	MF	0.00	2,917.85	83.93
J-739	2,723.70	MF	0.00	2,917.85	84.00
J45	2,723.00	MF	0.00	2,917.68	84.23
J-1163	2,723.00	MF	0.00	2,917.68	84.23
J-1006	2,726.00	MF	0.00	2,920.58	84.18
J-1005	2,726.00	MF	0.00	2,920.58	84.19
J-1164.1	2,723.00	MF	0.00	2,917.77	84.27
J-1165	2,723.00	MF	0.00	2,917.77	84.27
J-1166	2,723.00	MF	0.00	2,917.77	84.27
J-1171	2,723.00	MF	3.73	2,917.77	84.27
J-227	2,723.02	MF	0.00	2,917.85	84.30
J-759	2,722.99	MF	0.00	2,917.85	84.31
J-1024	2,727.00	MF	5.10	2,921.58	84.19
J-1023	2,727.00	MF	0.00	2,921.58	84.19
J-1021	2,727.00	MF	0.00	2,921.58	84.19
J-267	2,727.00	MF	0.00	2,921.58	84.19
J-228	2,722.82	MF	0.00	2,917.85	84.38
J-756	2,722.60	MF	0.00	2,917.85	84.48
J-750	2,722.52	MF	0.00	2,917.85	84.51
J-564	2,726.27	MF	5.14	2,921.47	84.45
J-742	2,722.24	MF	0.00	2,917.85	84.63
J-758	2,722.13	MF	0.00	2,917.85	84.68
J-1002	2,725.00	MF	0.00	2,920.60	84.63
J-1003	2,725.00	MF	0.00	2,920.60	84.63
J-1011	2,725.00	MF	0.00	2,920.61	84.63
J-740	2,722.09	MF	0.00	2,917.85	84.70
J-1164	2,722.00	MF	3.73	2,917.76	84.70
J-1009	2,725.00	MF	6.10	2,920.62	84.63
J-1175	2,722.00	MF	0.00	2,917.77	84.70
J-1025	2,726.00	MF	0.00	2,921.58	84.62
J-751	2,721.63	MF	0.00	2,917.85	84.90
J-755	2,721.63	MF	0.00	2,917.85	84.90
J-757	2,721.54	MF	0.00	2,917.85	84.94
J-488	2,725.00	MF	0.00	2,921.25	84.91
J-490	2,725.00	MF	0.00	2,921.28	84.92
J-1007	2,724.00	MF	0.00	2,920.57	85.05
J-1012	2,724.00	MF	0.00	2,920.59	85.05
J-1013	2,724.00	MF	0.00	2,920.59	85.05
J-1220	2,721.00	MF	0.00	2,917.76	85.13
J-1009.2	2,724.00	MF	0.00	2,920.62	85.07

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J-1177	2,721.00	MF	0.00	2,917.77	85.13
J-1178	2,721.00	MF	0.00	2,917.77	85.13
J-1179	2,721.00	MF	0.00	2,917.77	85.13
J-1180	2,721.00	MF	0.00	2,917.77	85.13
J-752	2,720.99	MF	0.00	2,917.85	85.17
J-741	2,720.59	MF	5.33	2,917.85	85.35
J-753	2,720.47	MF	0.00	2,917.85	85.40
J-486	2,724.00	MF	0.00	2,921.18	85.31
J-430	2,720.46	MF	0.00	2,917.89	85.42
J-496	2,720.00	MF	0.00	2,917.72	85.54
J-1014	2,723.00	MF	0.00	2,920.59	85.49
J-1009.1	2,723.00	MF	0.00	2,920.62	85.50
J-1182	2,720.00	MF	0.00	2,917.77	85.57
J-1181	2,720.00	MF	3.73	2,917.77	85.57
J-754	2,720.03	MF	0.00	2,917.85	85.59
J-429	2,720.03	MF	0.00	2,917.89	85.61
J-1193	2,720.00	MF	0.00	2,917.87	85.61
J-743	2,719.69	MF	0.00	2,917.86	85.74
J-1219	2,719.00	MF	0.00	2,917.70	85.97
J-1008.1	2,722.00	MF	0.00	2,920.58	85.92
J-1001	2,722.00	MF	0.00	2,920.60	85.92
J-1000	2,722.00	MF	0.00	2,920.60	85.92
J-1010	2,722.00	MF	0.00	2,920.62	85.93
J-447	2,718.99	MF	0.00	2,917.78	86.01
J-428	2,718.69	MF	0.00	2,917.89	86.19
J-497	2,718.22	MF	0.00	2,917.79	86.35
J-1008.2	2,721.00	MF	0.00	2,920.48	86.31
J-1008	2,721.00	MF	6.10	2,920.56	86.34
J-1004	2,721.00	MF	0.00	2,920.59	86.35
J-484	2,721.00	MF	0.00	2,920.63	86.37
J-427	2,718.05	MF	0.00	2,917.89	86.46
J-1186	2,718.00	MF	0.00	2,917.86	86.47
J-1192	2,718.00	MF	0.00	2,917.87	86.48
J-426	2,717.66	MF	0.00	2,917.89	86.63
J-015	2,717.50	MF	0.00	2,917.88	86.69
J-458	2,717.45	MF	0.00	2,917.87	86.71
J-266	2,720.00	MF	0.00	2,920.50	86.75
J14	2,717.17	MF	0.00	2,917.86	86.83
J53	2,720.00	MF	0.00	2,920.66	86.82
J-425	2,717.03	MF	3.75	2,917.89	86.90
J-1185	2,717.00	MF	0.00	2,917.86	86.90
J-1188	2,717.00	MF	0.00	2,917.87	86.91
J-1191	2,717.00	MF	3.63	2,917.87	86.91
J-1204	2,717.00	MF	0.00	2,917.93	86.93
J-421	2,716.98	MF	0.00	2,917.98	86.96

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1016	2,719.00	MF	0.00	2,920.53	87.19
J-1215	2,719.00	MF	0.00	2,920.53	87.19
J-1190	2,716.00	MF	0.00	2,917.87	87.34
J-1203	2,716.00	MF	0.00	2,917.93	87.36
J-1205	2,716.00	MF	0.00	2,917.93	87.36
J-419	2,715.72	MF	0.00	2,917.98	87.51
J-420	2,715.33	MF	0.00	2,917.98	87.68
J-1015	2,718.00	MF	6.10	2,920.53	87.63
J31	2,715.00	MF	0.00	2,917.83	87.76
J-424	2,715.00	MF	0.00	2,917.92	87.79
J-418	2,714.86	MF	0.00	2,917.98	87.88
J-448	2,714.53	MF	0.00	2,917.85	87.97
J-619	2,714.74	MF	0.00	2,918.29	88.07
J-416	2,714.27	MF	0.00	2,917.98	88.14
J-550	2,716.00	MF	5.41	2,919.68	88.12
J-1183	2,714.00	MF	0.00	2,917.86	88.20
J-1184	2,714.00	MF	3.63	2,917.86	88.20
J-1187	2,714.00	MF	0.00	2,917.86	88.20
J-1189	2,714.00	MF	0.00	2,917.87	88.21
J-1199	2,714.00	MF	0.00	2,917.88	88.21
J-1202	2,714.00	MF	3.81	2,917.93	88.23
J-417	2,713.82	MF	0.00	2,917.98	88.33
J-413	2,713.65	MF	0.00	2,917.98	88.41
J-618	2,713.79	MF	0.00	2,918.29	88.48
J-607	2,713.59	MF	8.16	2,918.17	88.51
J-606	2,713.51	MF	0.00	2,918.17	88.55
J-415	2,713.32	MF	0.00	2,917.98	88.55
J-423	2,713.02	MF	0.00	2,917.94	88.66
J-1200	2,713.00	MF	0.00	2,917.92	88.66
J-1209	2,713.00	MF	0.00	2,917.94	88.67
J-617	2,713.00	MF	0.00	2,918.29	88.82
J-255	2,715.00	MF	0.00	2,920.35	88.85
J-605	2,712.59	MF	0.00	2,918.17	88.94
J-414	2,712.14	MF	0.00	2,917.98	89.06
J-1194	2,712.00	MF	0.00	2,917.87	89.07
J-1198	2,712.00	MF	0.00	2,917.88	89.07
J-1197	2,712.00	MF	0.00	2,917.88	89.07
J-1196	2,712.00	MF	3.63	2,917.88	89.07
J-498	2,712.00	MF	0.00	2,917.89	89.08
J39	2,712.00	MF	0.00	2,917.90	89.08
J-1201	2,712.00	MF	0.00	2,917.92	89.09
J-1206	2,712.00	MF	0.00	2,917.93	89.10
J-1207	2,712.00	MF	3.81	2,917.94	89.10
J-616	2,712.23	MF	0.00	2,918.29	89.15
J-467	2,711.86	MF	0.00	2,917.91	89.15

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J-422	2,711.35	MF	0.00	2,917.96	89.39
J-604	2,711.43	MF	0.00	2,918.17	89.45
J-412	2,711.26	MF	0.00	2,917.98	89.44
J-403	2,711.20	MF	0.00	2,918.01	89.48
J42	2,710.96	MF	0.00	2,917.90	89.53
J-608	2,710.98	MF	2.33	2,918.17	89.64
J-615	2,711.09	MF	0.00	2,918.29	89.65
J-613	2,710.95	MF	0.00	2,918.29	89.70
J-404	2,710.64	MF	0.00	2,918.01	89.72
J-401	2,710.61	MF	3.75	2,918.03	89.74
J-603	2,710.50	MF	0.00	2,918.17	89.85
J-410	2,710.26	MF	3.75	2,917.98	89.87
J-400	2,710.26	MF	0.00	2,918.04	89.89
J-612	2,710.45	MF	0.00	2,918.28	89.92
J-1195	2,710.00	MF	0.00	2,917.87	89.94
J-1214	2,710.00	MF	0.00	2,917.94	89.97
J-1208	2,710.00	MF	0.00	2,917.94	89.97
J-1210	2,710.00	MF	0.00	2,917.95	89.97
J-614	2,710.22	MF	0.00	2,918.29	90.02
J-610	2,710.07	MF	0.00	2,918.19	90.04
J-508	2,710.00	MF	5.86	2,918.12	90.04
J-620	2,710.07	MF	0.00	2,918.29	90.09
J-409	2,709.74	MF	0.00	2,917.98	90.10
J-602	2,709.81	MF	0.00	2,918.17	90.15
J-621	2,709.92	MF	0.00	2,918.30	90.16
J-601	2,709.58	MF	0.00	2,918.16	90.24
J-231	2,709.41	MF	0.00	2,917.98	90.24
J-411	2,709.35	MF	0.00	2,917.98	90.27
J-408	2,709.31	MF	0.00	2,917.98	90.28
J-017	2,709.20	MF	0.00	2,917.89	90.29
J-499	2,709.23	MF	0.00	2,917.95	90.30
J-611	2,709.51	MF	0.00	2,918.27	90.32
J-600	2,709.32	MF	0.00	2,918.10	90.33
J-018	2,709.10	MF	0.00	2,917.89	90.33
J-1211	2,709.00	MF	0.00	2,917.95	90.40
J-1212	2,709.00	MF	0.00	2,917.95	90.40
J-1213	2,709.00	MF	3.81	2,917.95	90.40
J-627	2,709.28	MF	0.00	2,918.27	90.42
J-623	2,709.24	MF	0.00	2,918.30	90.45
J10	2,709.00	MF	0.00	2,918.12	90.48
J38	2,711.00	MF	2.70	2,920.13	90.48
J-406	2,708.62	MF	0.00	2,917.99	90.58
J-405	2,708.62	MF	0.00	2,918.01	90.59
J-229	2,708.52	MF	0.00	2,918.01	90.63
J-622	2,708.73	MF	0.00	2,918.30	90.67

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J32	2,708.00	MF	0.00	2,917.98	90.85
J-624	2,708.27	MF	0.00	2,918.31	90.87
J-628	2,708.23	MF	0.00	2,918.29	90.88
J-634	2,708.13	MF	0.00	2,918.36	90.96
J-402	2,707.77	MF	0.00	2,918.03	90.97
J-625	2,707.80	MF	0.00	2,918.31	91.08
J-243	2,707.43	MF	0.00	2,918.03	91.12
J-635	2,707.67	MF	0.00	2,918.36	91.16
J-407	2,707.28	MF	0.00	2,917.99	91.16
J-649	2,707.58	MF	0.00	2,918.36	91.19
J-230	2,707.22	MF	0.00	2,917.99	91.19
J-650	2,707.43	MF	0.00	2,918.36	91.26
J-629	2,707.26	MF	0.00	2,918.31	91.31
J-626	2,707.21	MF	0.00	2,918.31	91.33
J-637	2,707.21	MF	0.00	2,918.36	91.36
J-633	2,707.20	MF	0.00	2,918.36	91.36
J-549	2,708.00	MF	5.41	2,919.13	91.35
J-636	2,707.00	MF	0.00	2,918.36	91.45
J-483	2,706.66	MF	0.00	2,917.99	91.43
J-630	2,706.61	MF	0.00	2,918.32	91.60
J-632	2,706.64	MF	0.00	2,918.36	91.60
J-631	2,706.35	MF	0.00	2,918.36	91.73
J-638	2,706.24	MF	0.00	2,918.36	91.77
J-639	2,705.89	MF	0.00	2,918.36	91.93
J46	2,705.74	MF	0.00	2,918.36	91.99
J-642	2,705.39	MF	0.00	2,918.36	92.14
J-640	2,705.31	MF	0.00	2,918.36	92.18
J-641	2,704.48	MF	0.00	2,918.36	92.54
J-235	2,703.94	MF	0.00	2,918.05	92.64
J-645	2,704.13	MF	8.16	2,918.36	92.69
J-225	2,705.00	MF	5.27	2,920.13	93.08
J-558	2,705.00	MF	4.93	2,920.13	93.08
J28	2,705.00	MF	0.00	2,920.13	93.08
J-646	2,702.12	MF	0.00	2,918.36	93.56
J-648	2,701.28	MF	0.00	2,918.36	93.92
J-242	2,701.21	MF	0.00	2,918.36	93.95
J48	2,701.00	MF	0.00	2,918.15	93.95
J-512	2,701.00	MF	4.75	2,918.19	93.97
J-551	2,701.95	MF	0.00	2,919.75	94.23
J-647	2,700.44	MF	0.00	2,918.36	94.28
J-509	2,700.00	MF	5.86	2,918.17	94.39
J-651	2,700.16	MF	0.00	2,918.36	94.40
J-655	2,699.78	MF	0.00	2,918.36	94.57
J-654	2,699.69	MF	0.00	2,918.36	94.61
J-653	2,699.20	MF	0.00	2,918.36	94.82

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-241	2,699.07	MF	0.00	2,918.36	94.88
J-659	2,698.25	MF	0.00	2,918.36	95.23
J-652	2,698.16	MF	0.00	2,918.36	95.27
J-513	2,698.00	MF	4.75	2,918.24	95.29
J-660	2,698.08	MF	0.00	2,918.36	95.30
J-667	2,698.07	MF	0.00	2,918.36	95.31
J-666	2,697.98	MF	0.00	2,918.36	95.35
J-656	2,697.79	MF	0.00	2,918.36	95.43
J-561	2,697.49	MF	5.14	2,918.17	95.48
J-658	2,697.62	MF	0.00	2,918.36	95.50
J-240	2,697.52	MF	0.00	2,918.36	95.55
J-665	2,697.45	MF	0.00	2,918.36	95.58
J-548	2,698.00	MF	5.41	2,918.89	95.57
J-239	2,697.30	MF	0.00	2,918.36	95.64
J-662	2,696.93	MF	0.00	2,918.36	95.80
J-661	2,696.43	MF	0.00	2,918.36	96.02
J-664	2,696.31	MF	0.00	2,918.36	96.07
J-663	2,696.14	MF	0.00	2,918.36	96.14
J-657	2,696.08	MF	0.00	2,918.36	96.17
J-514	2,695.50	MF	4.75	2,918.29	96.39
J41	2,695.25	MF	0.00	2,918.36	96.53
J-510	2,695.00	MF	5.86	2,918.23	96.58
J-41.1	2,694.61	MF	0.00	2,918.31	96.79
J-671	2,694.57	MF	0.00	2,918.42	96.85
J-672	2,694.37	MF	0.00	2,918.42	96.94
J-670	2,693.83	MF	0.00	2,918.42	97.17
J-238	2,693.71	MF	0.00	2,918.42	97.22
J-668	2,693.50	MF	0.00	2,918.40	97.30
J47	2,694.00	MF	0.00	2,919.27	97.46
J-676	2,692.54	MF	0.00	2,918.50	97.76
J-669	2,692.34	MF	0.00	2,918.42	97.82
J-673	2,691.84	MF	0.00	2,918.43	98.04
J37	2,690.00	MF	0.00	2,919.16	99.14
J-521	2,689.00	MF	3.48	2,918.33	99.22
J-518	2,689.00	MF	2.95	2,918.35	99.23
J-559	2,689.65	MF	5.14	2,919.06	99.25
J-674	2,689.04	MF	0.00	2,918.49	99.27
J-675	2,688.66	MF	0.00	2,918.50	99.44
J-545	2,688.51	MF	2.70	2,918.62	99.56
J36	2,688.21	MF	0.00	2,918.66	99.70
J-547	2,687.85	MF	0.00	2,918.66	99.86
J-546	2,687.70	MF	0.00	2,918.63	99.91
J33	2,687.00	MF	0.00	2,918.25	100.05
J-517	2,687.00	MF	2.95	2,918.33	100.09
J-522	2,687.00	MF	3.48	2,918.35	100.09

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) MDD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-016	2,686.40	MF	0.00	2,917.88	100.15
J-678	2,687.01	MF	8.16	2,918.56	100.18
J-677	2,686.94	MF	0.00	2,918.54	100.20
J-511	2,686.20	MF	0.00	2,918.27	100.40
J-515	2,685.97	MF	0.00	2,918.28	100.51
J-536	2,685.88	MF	2.41	2,918.50	100.64
J-537	2,685.00	MF	2.41	2,918.54	101.04
J-535	2,684.83	MF	2.41	2,918.46	101.08
J-516	2,684.56	MF	0.00	2,918.33	101.14
J-544	2,684.70	MF	2.70	2,918.54	101.17
J-538	2,684.41	MF	0.00	2,918.55	101.30
J34	2,684.00	MF	0.00	2,918.34	101.39
J-519	2,684.00	MF	2.95	2,918.37	101.40
J-523	2,683.00	MF	3.48	2,918.39	101.84
J-543	2,682.65	MF	0.00	2,918.52	102.05
J-524	2,682.00	MF	0.00	2,918.42	102.29
J-542	2,681.21	MF	0.00	2,918.49	102.66
J-526	2,681.00	MF	4.15	2,918.41	102.71
J-541	2,680.52	MF	2.87	2,918.48	102.96
J-520	2,679.84	MF	0.00	2,918.39	103.21
J-525	2,679.04	MF	0.00	2,918.40	103.56
J-534	2,678.54	MF	0.00	2,918.45	103.80
J-529	2,678.35	MF	0.00	2,918.42	103.87
J-560	2,678.27	MF	5.14	2,918.44	103.91
J35	2,678.00	MF	0.00	2,918.43	104.02
J-539	2,678.00	MF	2.87	2,918.45	104.03
J-527	2,677.00	MF	4.15	2,918.41	104.45
J-540	2,677.00	MF	2.87	2,918.47	104.47
J-532	2,676.00	MF	2.26	2,918.43	104.89
J-528	2,675.00	MF	4.15	2,918.41	105.31
J-531	2,675.00	MF	2.26	2,918.43	105.32
J-533	2,673.00	MF	2.26	2,918.43	106.18
J25	2,672.00	MF	2.25	2,918.43	106.62
J49	2,671.50	MF	1.13	2,918.43	106.83
J11	2,671.50	MF	6.49	2,918.43	106.83
J26	2,671.00	MF	0.71	2,918.43	107.05
J50	2,669.00	MF	1.21	2,918.43	107.91

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-1081	MF	0.00	0.00	1,500.00	2,425.97	True	27.44	11.28	J-505
J-1082	MF	0.00	6.61	1,506.61	2,492.87	True	29.59	11.28	J-505
J-1080	MF	0.00	0.00	1,500.00	2,783.74	True	34.03	11.28	J-505
J-1083	MF	0.00	0.00	1,500.00	2,659.66	True	34.20	11.28	J-505
J-1218	MF	0.00	0.00	1,500.00	2,677.96	True	37.50	11.28	J-505
J-1111	MF	0.00	0.00	1,500.00	2,598.49	True	37.50	11.28	J-505
J-1079	MF	0.00	0.00	1,500.00	2,921.33	True	37.92	11.28	J-505
J-1078	MF	0.00	0.00	1,500.00	2,698.31	True	38.19	11.28	J-505
J-1084	MF	0.00	0.00	1,500.00	2,897.82	True	39.89	11.28	J-505
J-1112	MF	0.00	0.00	1,500.00	3,012.37	True	39.99	11.28	J-505
J-1110	MF	0.00	0.00	1,500.00	2,840.40	True	40.85	11.28	J-505
J-1109	MF	0.00	0.00	1,500.00	2,939.95	True	42.45	11.28	J-505
J-1108	MF	0.00	0.00	1,500.00	3,070.36	True	43.65	11.28	J-505
J-416	MF	0.00	0.00	1,500.00	2,217.28	True	44.38	11.28	J-505
J-421	MF	0.00	0.00	1,500.00	2,271.76	True	45.58	11.28	J-505
J-1085	MF	0.00	0.00	1,500.00	3,221.89	True	46.66	11.28	J-505
J-1107	MF	0.00	0.00	1,500.00	3,548.84	True	49.25	11.28	J-505
J-419	MF	0.00	0.00	1,500.00	2,399.84	True	49.68	11.28	J-505
J-420	MF	0.00	0.00	1,500.00	2,443.15	True	51.23	11.28	J-505
J-1124	MF	0.00	0.00	1,500.00	3,068.93	True	51.60	11.28	J-505
J-1087	MF	0.00	0.00	1,500.00	3,657.44	True	52.06	11.28	J-505
J-1105	MF	0.00	0.00	1,500.00	3,573.29	True	52.63	11.28	J-505
J-418	MF	0.00	0.00	1,500.00	2,501.43	True	52.89	11.28	J-505
J-1123	MF	0.00	0.00	1,500.00	3,191.34	True	53.31	11.28	J-505
J-1086	MF	0.00	6.61	1,506.61	3,832.62	True	53.68	11.28	J-505
J-1106	MF	0.00	0.00	1,500.00	3,975.72	True	54.07	11.28	J-505
J-1104	MF	0.00	0.00	1,500.00	4,000.00	True	55.29	11.28	J-505
J-1154	MF	0.00	0.00	1,500.00	3,049.87	True	55.67	11.28	J-505
J-1088	MF	0.00	0.00	1,500.00	4,000.00	True	55.95	11.28	J-505
J-417	MF	0.00	0.00	1,500.00	2,644.15	True	56.52	11.28	J-505
J-1071	MF	0.00	0.00	1,500.00	3,306.73	True	56.95	11.28	J-505
J-1036	MF	0.00	0.00	1,500.00	2,904.93	True	57.11	11.28	J-505
J-1067	MF	0.00	0.00	1,500.00	3,350.82	True	57.37	11.28	J-505
J-1035	MF	0.00	0.00	1,500.00	2,991.40	True	57.74	11.28	J-505
J-415	MF	0.00	0.00	1,500.00	2,705.48	True	57.96	11.28	J-505
J-1103	MF	0.00	0.00	1,500.00	4,000.00	True	57.99	11.28	J-505
J-1121	MF	0.00	0.00	1,500.00	3,608.11	True	58.07	11.28	J-505
J-1138	MF	0.00	0.00	1,500.00	3,350.39	True	58.51	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-1102	MF	0.00	0.00	1,500.00	3,720.21	True	58.85	11.28	J-505
J-1150	MF	0.00	0.00	1,500.00	3,296.55	True	59.04	11.28	J-505
J-1153	MF	0.00	0.00	1,500.00	3,407.87	True	59.06	11.28	J-505
J-1098	MF	0.00	0.00	1,500.00	3,829.26	True	59.12	11.28	J-505
J-1149	MF	0.00	0.00	1,500.00	3,326.45	True	59.33	11.28	J-505
J-1066	MF	0.00	0.00	1,500.00	3,619.87	True	59.25	11.28	J-505
J-1094	MF	0.00	0.00	1,500.00	4,000.00	True	59.42	11.28	J-505
J-1122	MF	0.00	0.00	1,500.00	3,942.84	True	60.11	11.28	J-505
J-1141	MF	0.00	0.00	1,500.00	3,503.01	True	60.18	11.28	J-505
J-1074	MF	0.00	0.00	1,500.00	3,612.30	True	60.25	11.28	J-505
J-1120	MF	0.00	2.18	1,502.18	4,002.18	True	60.65	11.28	J-505
J-1070	MF	0.00	0.00	1,500.00	3,723.69	True	60.77	11.28	J-505
J-619	MF	0.00	0.00	1,500.00	2,926.43	True	61.09	11.28	J-505
J-1160	MF	0.00	0.00	1,500.00	3,669.45	True	61.47	11.28	J-505
J-1137	MF	0.00	4.74	1,504.74	3,715.25	True	61.82	11.28	J-505
J-414	MF	0.00	0.00	1,500.00	2,904.93	True	61.95	11.28	J-505
J-1136	MF	0.00	0.00	1,500.00	3,681.93	True	61.89	11.28	J-505
J-1033	MF	0.00	0.00	1,500.00	3,251.94	True	61.91	11.28	J-505
J-1101	MF	0.00	0.00	1,500.00	4,000.00	True	62.02	11.28	J-505
J-1139	MF	0.00	0.00	1,500.00	3,787.40	True	62.26	11.28	J-505
J-1073	MF	0.00	0.00	1,500.00	3,771.43	True	62.24	11.28	J-505
J-1063	MF	0.00	0.00	1,500.00	3,799.22	True	62.26	11.28	J-505
J-1159	MF	0.00	4.42	1,504.42	3,899.68	True	62.59	11.28	J-505
J-413	MF	0.00	0.00	1,500.00	3,023.13	True	62.66	11.28	J-505
J-1158	MF	0.00	0.00	1,500.00	3,852.86	True	62.69	11.28	J-505
J-1093	MF	0.00	0.00	1,500.00	4,000.00	True	62.67	11.28	J-505
J-1135	MF	0.00	0.00	1,500.00	3,707.37	True	62.78	11.28	J-505
J-1032	MF	0.00	0.00	1,500.00	3,373.24	True	62.84	11.28	J-505
J-1161	MF	0.00	0.00	1,500.00	3,960.65	True	62.98	11.28	J-505
J-1097	MF	0.00	0.00	1,500.00	4,000.00	True	63.35	11.28	J-505
J-1140	MF	0.00	0.00	1,500.00	3,864.41	True	63.61	11.28	J-505
J-1134	MF	0.00	0.00	1,500.00	3,839.33	True	63.67	11.28	J-505
J-1034	MF	0.00	0.00	1,500.00	3,387.40	True	63.60	11.28	J-505
J-1156	MF	0.00	4.42	1,504.42	3,914.37	True	63.76	11.28	J-505
J-618	MF	0.00	0.00	1,500.00	3,137.34	True	64.49	11.28	J-505
J-1062	MF	0.00	0.00	1,500.00	4,000.00	True	64.49	11.28	J-505
J-1155	MF	0.00	0.00	1,500.00	4,000.00	True	64.73	11.28	J-505
J-1152	MF	0.00	0.00	1,500.00	3,986.85	True	64.89	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-1157	MF	0.00	0.00	1,500.00	3,707.20	True	64.90	11.28	J-505
J-1151	MF	0.00	0.00	1,500.00	4,000.00	True	65.04	11.28	J-505
J-556	MF	0.00	3.48	1,503.48	4,003.48	True	65.27	11.28	J-505
J-1142	MF	0.00	0.00	1,500.00	4,000.00	True	65.93	11.28	J-505
J-1091	MF	0.00	6.61	1,506.61	4,006.61	True	66.02	11.28	J-505
J-1148	MF	0.00	0.00	1,500.00	4,000.00	True	66.13	11.28	J-505
J-1132	MF	0.00	0.00	1,500.00	4,000.00	True	66.25	11.28	J-505
J-1162	MF	0.00	0.00	1,500.00	4,000.00	True	66.34	11.28	J-505
J-712	MF	0.00	0.00	1,500.00	4,000.00	True	66.68	11.28	J-505
J-607	MF	0.00	8.16	1,508.16	3,360.95	True	66.84	11.28	J-505
J-555	MF	0.00	3.48	1,503.48	4,003.48	True	66.36	11.28	J-505
J-1030	MF	0.00	0.00	1,500.00	3,743.02	True	66.71	11.28	J-505
J-1092	MF	0.00	0.00	1,500.00	4,000.00	True	66.75	11.28	J-505
J-1031	MF	0.00	5.10	1,505.10	3,662.26	True	66.80	11.28	J-505
J-1119	MF	0.00	0.00	1,500.00	4,000.00	True	66.89	11.28	J-505
J-1069	MF	0.00	8.06	1,508.06	4,008.06	True	66.74	11.28	J-505
J-713	MF	0.00	0.00	1,500.00	4,000.00	True	67.07	11.28	J-505
J-1118	MF	0.00	0.00	1,500.00	4,000.00	True	67.03	11.28	J-505
J-606	MF	0.00	0.00	1,500.00	3,386.44	True	67.23	11.28	J-505
J-1065	MF	0.00	0.00	1,500.00	4,000.00	True	66.89	11.28	J-505
J-617	MF	0.00	0.00	1,500.00	3,344.17	True	67.24	11.28	J-505
J-1170	MF	0.00	0.00	1,500.00	4,000.00	True	67.26	11.28	J-505
J-1096	MF	0.00	0.00	1,500.00	4,000.00	True	67.29	11.28	J-505
J-1099	MF	0.00	0.00	1,500.00	4,000.00	True	67.32	11.28	J-505
J-1117	MF	0.00	0.00	1,500.00	4,000.00	True	67.36	11.28	J-505
J-227	MF	0.00	0.00	1,500.00	3,838.23	True	67.45	11.28	J-505
J-1193	MF	0.00	0.00	1,500.00	3,698.60	True	67.56	11.28	J-505
J-1095	MF	0.00	0.00	1,500.00	4,000.00	True	67.49	11.28	J-505
J-1029	MF	0.00	0.00	1,500.00	3,908.35	True	67.50	11.28	J-505
J-1068	MF	0.00	0.00	1,500.00	4,000.00	True	67.44	11.28	J-505
J-1100	MF	0.00	0.00	1,500.00	4,000.00	True	67.59	11.28	J-505
J-1133	MF	0.00	0.00	1,500.00	4,000.00	True	67.70	11.28	J-505
J-714	MF	0.00	0.00	1,500.00	4,000.00	True	67.75	11.28	J-505
J-711	MF	0.00	0.00	1,500.00	4,000.00	True	67.87	11.28	J-505
J-1059	MF	0.00	0.00	1,500.00	4,000.00	True	67.82	11.28	J-505
J-703	MF	0.00	0.00	1,500.00	4,000.00	True	68.02	11.28	J-505
J-704	MF	0.00	0.00	1,500.00	4,000.00	True	68.04	11.28	J-505
J-1064	MF	0.00	0.00	1,500.00	4,000.00	True	67.88	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-1056	MF	0.00	0.00	1,500.00	4,000.00	True	67.90	11.28	J-505
J-705	MF	0.00	0.00	1,500.00	4,000.00	True	68.15	11.28	J-505
J-1147	MF	0.00	0.00	1,500.00	4,000.00	True	68.31	11.28	J-505
J-1209	MF	0.00	0.00	1,500.00	3,504.74	True	68.40	11.28	J-505
J-1169	MF	0.00	0.00	1,500.00	4,000.00	True	68.37	11.28	J-505
J-715	MF	0.00	0.00	1,500.00	4,000.00	True	68.64	11.28	J-505
J-727	MF	0.00	0.00	1,500.00	4,000.00	True	68.67	11.28	J-505
J-706	MF	0.00	0.00	1,500.00	4,000.00	True	68.70	11.28	J-505
J-1116	MF	0.00	2.18	1,502.18	4,002.18	True	68.73	11.28	J-505
J-702	MF	0.00	0.00	1,500.00	4,000.00	True	68.79	11.28	J-505
J-1061	MF	0.00	0.00	1,500.00	4,000.00	True	68.61	11.28	J-505
J-728	MF	0.00	0.00	1,500.00	4,000.00	True	68.83	11.28	J-505
J-231	MF	0.00	0.00	1,500.00	3,428.44	True	68.92	11.28	J-505
J-1072	MF	0.00	0.00	1,500.00	4,000.00	True	68.65	11.28	J-505
J-412	MF	0.00	0.00	1,500.00	3,441.51	True	68.96	11.28	J-505
J-729	MF	0.00	0.00	1,500.00	4,000.00	True	68.88	11.28	J-505
J-1168	MF	0.00	0.00	1,500.00	4,000.00	True	69.05	11.28	J-505
J-1019	MF	0.00	0.00	1,500.00	4,000.00	True	68.95	11.28	J-505
J-1003	MF	0.00	0.00	1,500.00	3,938.34	True	69.03	11.28	J-505
J-707	MF	0.00	0.00	1,500.00	4,000.00	True	69.06	11.28	J-505
J-429	MF	0.00	0.00	1,500.00	3,919.31	True	69.15	11.28	J-505
J-726	MF	0.00	0.00	1,500.00	4,000.00	True	69.12	11.28	J-505
J-1204	MF	0.00	0.00	1,500.00	3,773.60	True	69.23	11.28	J-505
J-1020	MF	0.00	5.10	1,505.10	4,005.10	True	69.12	11.28	J-505
J-1131	MF	0.00	0.00	1,500.00	4,000.00	True	69.23	11.28	J-505
J-411	MF	0.00	0.00	1,500.00	3,471.43	True	69.38	11.28	J-505
J-708	MF	0.00	0.00	1,500.00	4,000.00	True	69.40	11.28	J-505
J-730	MF	0.00	0.00	1,500.00	4,000.00	True	69.43	11.28	J-505
J-430	MF	0.00	0.00	1,500.00	3,997.38	True	69.52	11.28	J-505
J-1173	MF	0.00	0.00	1,500.00	4,000.00	True	69.62	11.28	J-505
J17	MF	0.00	5.33	1,505.33	4,005.32	True	69.60	11.28	J-505
J-1143	MF	0.00	0.00	1,500.00	4,000.00	True	69.63	11.28	J-505
J-1130	MF	0.00	0.00	1,500.00	4,000.00	True	69.66	11.28	J-505
J-554	MF	0.00	3.48	1,503.48	4,003.48	True	69.34	11.28	J-505
J-709	MF	0.00	0.00	1,500.00	4,000.00	True	69.78	11.28	J-505
J-759	MF	0.00	0.00	1,500.00	4,000.00	True	69.83	11.28	J-505
J-1060	MF	0.00	0.00	1,500.00	4,000.00	True	69.72	11.28	J-505
J-1026	MF	0.00	0.00	1,500.00	4,000.00	True	69.87	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-616	MF	0.00	0.00	1,500.00	3,615.72	True	70.16	11.28	J-505
J-710	MF	0.00	0.00	1,500.00	4,000.00	True	70.07	11.28	J-505
J-553	MF	0.00	0.00	1,500.00	4,000.00	True	69.70	11.28	J-505
J-1089	MF	0.00	0.00	1,500.00	4,000.00	True	70.09	11.28	J-505
J-1077	MF	0.00	0.00	1,500.00	4,000.00	True	69.93	11.28	J-505
J-1176	MF	0.00	0.00	1,500.00	4,000.00	True	70.18	11.28	J-505
J-1055	MF	0.00	0.00	1,500.00	4,000.00	True	69.97	11.28	J-505
J-1186	MF	0.00	0.00	1,500.00	3,977.59	True	70.23	11.28	J-505
J-1090	MF	0.00	0.00	1,500.00	4,000.00	True	70.18	11.28	J-505
J-1039	MF	0.00	0.00	1,500.00	4,000.00	True	70.04	11.28	J-505
J-1006	MF	0.00	0.00	1,500.00	4,000.00	True	70.32	11.28	J-505
J-716	MF	0.00	0.00	1,500.00	4,000.00	True	70.43	11.28	J-505
J-1005	MF	0.00	0.00	1,500.00	4,000.00	True	70.51	11.28	J-505
J-717	MF	0.00	0.00	1,500.00	4,000.00	True	70.53	11.28	J-505
J-731	MF	0.00	0.00	1,500.00	4,000.00	True	70.58	11.28	J-505
J-605	MF	0.00	0.00	1,500.00	3,737.77	True	70.78	11.28	J-505
J-1058	MF	0.00	0.00	1,500.00	4,000.00	True	70.47	11.28	J-505
J-1171	MF	0.00	3.73	1,503.73	4,003.73	True	70.78	11.28	J-505
J-1002	MF	0.00	0.00	1,500.00	4,000.00	True	70.81	11.28	J-505
J-718	MF	0.00	0.00	1,500.00	4,000.00	True	70.85	11.28	J-505
J-1049	MF	0.00	0.00	1,500.00	4,000.00	True	70.68	11.28	J-505
J-410	MF	0.00	3.75	1,503.75	3,620.70	True	70.96	11.28	J-505
J-719	MF	0.00	0.00	1,500.00	4,000.00	True	70.89	11.28	J-505
J-1021	MF	0.00	0.00	1,500.00	4,000.00	True	70.89	11.28	J-505
J-228	MF	0.00	0.00	1,500.00	4,000.00	True	71.01	11.28	J-505
J50	MF	0.00	1.21	1,501.21	2,742.35	True	71.20	11.28	J-505
J-347	MF	0.00	0.00	1,500.00	4,000.00	True	70.97	11.28	J-505
J-1018	MF	0.00	0.00	1,500.00	4,000.00	True	71.04	11.28	J-505
J-720	MF	0.00	0.00	1,500.00	4,000.00	True	71.23	11.28	J-505
J-1025	MF	0.00	0.00	1,500.00	4,000.00	True	71.20	11.28	J-505
J-732	MF	0.00	0.00	1,500.00	4,000.00	True	71.28	11.28	J-505
J-1167	MF	0.00	0.00	1,500.00	4,000.00	True	71.36	11.28	J-505
J-1172	MF	0.00	0.00	1,500.00	4,000.00	True	71.41	11.28	J-505
J-1113	MF	0.00	2.18	1,502.18	4,002.18	True	71.49	11.28	J-505
J-721	MF	0.00	0.00	1,500.00	4,000.00	True	71.57	11.28	J-505
J-493	MF	0.00	0.00	1,500.00	4,000.00	True	71.72	11.28	J-505
J-1114	MF	0.00	0.00	1,500.00	4,000.00	True	71.85	11.28	J-505
J-1115	MF	0.00	0.00	1,500.00	4,000.00	True	71.89	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-1052	MF	0.00	0.00	1,500.00	4,000.00	True	71.75	11.28	J-505
J-650	MF	0.00	0.00	1,500.00	3,660.93	True	72.05	11.28	J-505
J-1185	MF	0.00	0.00	1,500.00	4,000.00	True	72.02	11.28	J-505
J-1174	MF	0.00	0.00	1,500.00	4,000.00	True	72.10	11.28	J-505
J-756	MF	0.00	0.00	1,500.00	4,000.00	True	72.21	11.28	J-505
J-745	MF	0.00	0.00	1,500.00	4,000.00	True	72.26	11.28	J-505
J-746	MF	0.00	0.00	1,500.00	4,000.00	True	72.27	11.28	J-505
J-747	MF	0.00	0.00	1,500.00	4,000.00	True	72.28	11.28	J-505
J-1028	MF	0.00	0.00	1,500.00	4,000.00	True	72.19	11.28	J-505
J-374	MF	0.00	0.00	1,500.00	4,000.00	True	72.25	11.28	J-505
J-649	MF	0.00	0.00	1,500.00	3,710.71	True	72.41	11.28	J-505
J-758	MF	0.00	0.00	1,500.00	4,000.00	True	72.33	11.28	J-505
J-1009	MF	0.00	6.10	1,506.10	4,006.10	True	72.34	11.28	J-505
J-722	MF	0.00	5.33	1,505.33	4,005.32	True	72.40	11.28	J-505
J-1022	MF	0.00	0.00	1,500.00	4,000.00	True	72.31	11.28	J-505
J-733	MF	0.00	0.00	1,500.00	4,000.00	True	72.45	11.28	J-505
J-1166	MF	0.00	0.00	1,500.00	4,000.00	True	72.49	11.28	J-505
J-1125	MF	0.00	4.74	1,504.74	4,004.74	True	72.48	11.28	J-505
J8	MF	0.00	0.00	1,500.00	4,000.00	True	72.21	11.28	J-505
J-1192	MF	0.00	0.00	1,500.00	4,000.00	True	72.66	11.28	J-505
J-744	MF	0.00	0.00	1,500.00	4,000.00	True	72.65	11.28	J-505
J-1051	MF	0.00	0.00	1,500.00	4,000.00	True	72.44	11.28	J-505
J-1146	MF	0.00	4.42	1,504.42	4,004.42	True	72.70	11.28	J-505
J-230	MF	0.00	0.00	1,500.00	3,778.02	True	72.79	11.28	J-505
J-1126	MF	0.00	0.00	1,500.00	4,000.00	True	72.76	11.28	J-505
J-748	MF	0.00	0.00	1,500.00	4,000.00	True	72.78	11.28	J-505
J-615	MF	0.00	0.00	1,500.00	3,910.04	True	72.89	11.28	J-505
J-1024	MF	0.00	5.10	1,505.10	4,005.10	True	72.80	11.28	J-505
J-229	MF	0.00	0.00	1,500.00	3,885.77	True	73.14	11.28	J-505
J-1010	MF	0.00	0.00	1,500.00	4,000.00	True	73.06	11.28	J-505
J-1027	MF	0.00	0.00	1,500.00	4,000.00	True	73.01	11.28	J-505
J-407	MF	0.00	0.00	1,500.00	3,833.86	True	73.20	11.28	J-505
J-405	MF	0.00	0.00	1,500.00	3,904.04	True	73.24	11.28	J-505
J-370	MF	0.00	0.00	1,500.00	4,000.00	True	73.12	11.28	J-505
J52	MF	0.00	0.00	1,500.00	4,000.00	True	73.17	11.28	J-505
J-1014	MF	0.00	0.00	1,500.00	4,000.00	True	73.35	11.28	J-505
J-1007	MF	0.00	0.00	1,500.00	4,000.00	True	73.35	11.28	J-505
J-1203	MF	0.00	0.00	1,500.00	4,000.00	True	73.53	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-604	MF	0.00	0.00	1,500.00	4,000.00	True	73.58	11.28	J-505
J-723	MF	0.00	0.00	1,500.00	4,000.00	True	73.51	11.28	J-505
J-1127	MF	0.00	0.00	1,500.00	4,000.00	True	73.51	11.28	J-505
J-243	MF	0.00	0.00	1,500.00	3,892.13	True	73.60	11.28	J-505
J-1163	MF	0.00	0.00	1,500.00	4,000.00	True	73.59	11.28	J-505
J-1144	MF	0.00	0.00	1,500.00	4,000.00	True	73.65	11.28	J-505
J30	MF	0.00	0.00	1,500.00	4,000.00	True	73.61	11.28	J-505
J-749	MF	0.00	0.00	1,500.00	4,000.00	True	73.67	11.28	J-505
J-1129	MF	0.00	0.00	1,500.00	4,000.00	True	73.67	11.28	J-505
J-724	MF	0.00	0.00	1,500.00	4,000.00	True	73.70	11.28	J-505
J-1042	MF	0.00	0.00	1,500.00	4,000.00	True	73.55	11.28	J-505
J-346	MF	0.00	0.00	1,500.00	4,000.00	True	73.72	11.28	J-505
J-1057	MF	0.00	8.06	1,508.06	4,008.06	True	73.58	11.28	J-505
J-402	MF	0.00	0.00	1,500.00	3,969.21	True	74.02	11.28	J-505
J-725	MF	0.00	0.00	1,500.00	4,000.00	True	73.94	11.28	J-505
J-1075	MF	0.00	0.00	1,500.00	4,000.00	True	73.80	11.28	J-505
J-1175	MF	0.00	0.00	1,500.00	4,000.00	True	74.05	11.28	J-505
J-1038	MF	0.00	0.00	1,500.00	4,000.00	True	73.80	11.28	J-505
J-1145	MF	0.00	0.00	1,500.00	4,000.00	True	74.11	11.28	J-505
J-492	MF	0.00	0.00	1,500.00	4,000.00	True	74.09	11.28	J-505
J-1165	MF	0.00	0.00	1,500.00	4,000.00	True	74.16	11.28	J-505
J38	MF	0.00	2.70	1,502.70	3,989.32	True	74.18	11.28	J-505
J-1013	MF	0.00	0.00	1,500.00	4,000.00	True	74.16	11.28	J-505
J-1128	MF	0.00	4.74	1,504.74	4,004.74	True	74.19	11.28	J-505
J-1043	MF	0.00	0.00	1,500.00	4,000.00	True	74.03	11.28	J-505
J-1179	MF	0.00	0.00	1,500.00	4,000.00	True	74.33	11.28	J-505
J-428	MF	0.00	0.00	1,500.00	4,000.00	True	74.37	11.28	J-505
J-1076	MF	0.00	0.00	1,500.00	4,000.00	True	74.09	11.28	J-505
J-1040	MF	0.00	0.00	1,500.00	4,000.00	True	74.11	11.28	J-505
J-734	MF	0.00	0.00	1,500.00	4,000.00	True	74.34	11.28	J-505
J-1177	MF	0.00	0.00	1,500.00	4,000.00	True	74.39	11.28	J-505
J-1045	MF	0.00	0.00	1,500.00	4,000.00	True	74.19	11.28	J-505
J-1199	MF	0.00	0.00	1,500.00	4,000.00	True	74.50	11.28	J-505
J-750	MF	0.00	0.00	1,500.00	4,000.00	True	74.50	11.28	J-505
J5	MF	0.00	0.00	1,500.00	4,000.00	True	74.08	11.28	J-505
J-1054	MF	0.00	0.00	1,500.00	4,000.00	True	74.28	11.28	J-505
J-1047	MF	0.00	0.00	1,500.00	4,000.00	True	74.35	11.28	J-505
J-1053	MF	0.00	0.00	1,500.00	4,000.00	True	74.36	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-757	MF	0.00	0.00	1,500.00	4,000.00	True	74.61	11.28	J-505
J-735	MF	0.00	0.00	1,500.00	4,000.00	True	74.63	11.28	J-505
J-1041	MF	0.00	0.00	1,500.00	4,000.00	True	74.44	11.28	J-505
J-623	MF	0.00	0.00	1,500.00	4,000.00	True	74.82	11.28	J-505
J-1044	MF	0.00	0.00	1,500.00	4,000.00	True	74.55	11.28	J-505
J-655	MF	0.00	0.00	1,500.00	3,674.72	True	74.85	11.28	J-505
GC-1	MF	0.00	0.00	1,500.00	4,000.00	True	74.35	11.28	J-505
J-1205	MF	0.00	0.00	1,500.00	4,000.00	True	74.87	11.28	J-505
J-736	MF	0.00	0.00	1,500.00	4,000.00	True	74.82	11.28	J-505
J-755	MF	0.00	0.00	1,500.00	4,000.00	True	74.86	11.28	J-505
J-1048	MF	0.00	0.00	1,500.00	4,000.00	True	74.68	11.28	J-505
J-562	MF	0.00	5.14	1,505.14	4,005.14	True	74.86	11.28	J-505
J-409	MF	0.00	0.00	1,500.00	4,000.00	True	75.05	11.28	J-505
J-1164.1	MF	0.00	0.00	1,500.00	4,000.00	True	75.08	11.28	J-505
J-1017	MF	0.00	0.00	1,500.00	4,000.00	True	75.01	11.28	J-505
J-608	MF	0.00	2.33	1,502.33	4,002.33	True	75.21	11.28	J-505
J-751	MF	0.00	0.00	1,500.00	4,000.00	True	75.14	11.28	J-505
J-737	MF	0.00	0.00	1,500.00	4,000.00	True	75.26	11.28	J-505
J-1009.1	MF	0.00	0.00	1,500.00	4,000.00	True	75.38	11.28	J-505
J6	MF	0.00	0.00	1,500.00	4,000.00	True	75.00	11.28	J-505
J-1004	MF	0.00	0.00	1,500.00	4,000.00	True	75.41	11.28	J-505
J-1037	MF	0.00	0.00	1,500.00	4,000.00	True	75.21	11.28	J-505
J-1023	MF	0.00	0.00	1,500.00	4,000.00	True	75.40	11.28	J-505
J-403	MF	0.00	0.00	1,500.00	4,000.00	True	75.57	11.28	J-505
J-1178	MF	0.00	0.00	1,500.00	4,000.00	True	75.55	11.28	J-505
J-423	MF	0.00	0.00	1,500.00	4,000.00	True	75.60	11.28	J-505
J-642	MF	0.00	0.00	1,500.00	4,000.00	True	75.65	11.28	J-505
J-384	MF	0.00	0.00	1,500.00	4,000.00	True	75.55	11.28	J-505
J-422	MF	0.00	0.00	1,500.00	4,000.00	True	75.65	11.28	J-505
J-1206	MF	0.00	0.00	1,500.00	4,000.00	True	75.65	11.28	J-505
J-404	MF	0.00	0.00	1,500.00	4,000.00	True	75.74	11.28	J-505
J-634	MF	0.00	0.00	1,500.00	4,000.00	True	75.77	11.28	J-505
J-1050	MF	0.00	0.00	1,500.00	4,000.00	True	75.48	11.28	J-505
J-427	MF	0.00	0.00	1,500.00	4,000.00	True	75.75	11.28	J-505
J-752	MF	0.00	0.00	1,500.00	4,000.00	True	75.84	11.28	J-505
J-495	MF	0.00	0.00	1,500.00	4,000.00	True	75.84	11.28	J-505
J-654	MF	0.00	0.00	1,500.00	3,809.02	True	76.00	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-660	MF	0.00	0.00	1,500.00	3,738.70	True	76.00	11.28	J-505
J-1207	MF	0.00	3.81	1,503.81	4,003.81	True	76.03	11.28	J-505
J-738	MF	0.00	0.00	1,500.00	4,000.00	True	76.05	11.28	J-505
J-424	MF	0.00	0.00	1,500.00	4,000.00	True	76.15	11.28	J-505
J-401	MF	0.00	3.75	1,503.75	4,003.75	True	76.22	11.28	J-505
J-613	MF	0.00	0.00	1,500.00	4,000.00	True	76.23	11.28	J-505
J-1164	MF	0.00	3.73	1,503.73	4,003.73	True	76.17	11.28	J-505
J-1202	MF	0.00	3.81	1,503.81	4,003.81	True	76.22	11.28	J-505
J-408	MF	0.00	0.00	1,500.00	4,000.00	True	76.23	11.28	J-505
J-659	MF	0.00	0.00	1,500.00	3,781.88	True	76.29	11.28	J-505
J-501	MF	0.00	0.00	1,500.00	4,000.00	True	75.86	11.28	J-505
J-390	MF	0.00	0.00	1,500.00	4,000.00	True	76.26	11.28	J-505
J-1211	MF	0.00	0.00	1,500.00	4,000.00	True	76.36	11.28	J-505
J-620	MF	0.00	0.00	1,500.00	4,000.00	True	76.38	11.28	J-505
J-1180	MF	0.00	0.00	1,500.00	4,000.00	True	76.32	11.28	J-505
J-614	MF	0.00	0.00	1,500.00	4,000.00	True	76.39	11.28	J-505
J-242	MF	0.00	0.00	1,500.00	3,873.90	True	76.41	11.28	J-505
J-1182	MF	0.00	0.00	1,500.00	4,000.00	True	76.35	11.28	J-505
J-1046	MF	0.00	8.06	1,508.06	4,008.06	True	76.19	11.28	J-505
J-621	MF	0.00	0.00	1,500.00	4,000.00	True	76.47	11.28	J-505
J-1001	MF	0.00	0.00	1,500.00	4,000.00	True	76.38	11.28	J-505
J-603	MF	0.00	0.00	1,500.00	4,000.00	True	76.51	11.28	J-505
J-406	MF	0.00	0.00	1,500.00	4,000.00	True	76.52	11.28	J-505
J-400	MF	0.00	0.00	1,500.00	4,000.00	True	76.53	11.28	J-505
J-739	MF	0.00	0.00	1,500.00	4,000.00	True	76.52	11.28	J-505
J-648	MF	0.00	0.00	1,500.00	3,905.00	True	76.61	11.28	J-505
J-753	MF	0.00	0.00	1,500.00	4,000.00	True	76.54	11.28	J-505
J-1012	MF	0.00	0.00	1,500.00	4,000.00	True	76.70	11.28	J-505
J-1216	MF	0.00	0.00	1,500.00	4,000.00	True	76.74	11.28	J-505
J-1011	MF	0.00	0.00	1,500.00	4,000.00	True	76.79	11.28	J-505
J-241	MF	0.00	0.00	1,500.00	3,913.04	True	77.06	11.28	J-505
J-637	MF	0.00	0.00	1,500.00	4,000.00	True	77.08	11.28	J-505
J3	MF	0.00	0.00	1,500.00	4,000.00	True	76.57	11.28	J-505
J-1181	MF	0.00	3.73	1,503.73	4,003.73	True	77.04	11.28	J-505
J-1217	MF	0.00	0.00	1,500.00	4,000.00	True	76.94	11.28	J-505
J-557	MF	0.00	0.00	1,500.00	4,000.00	True	76.65	11.28	J-505
J-622	MF	0.00	0.00	1,500.00	4,000.00	True	77.17	11.28	J-505
J45	MF	0.00	0.00	1,500.00	4,000.00	True	77.10	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-563	MF	0.00	5.14	1,505.14	4,005.14	True	76.76	11.28	J-505
J-612	MF	0.00	0.00	1,500.00	4,000.00	True	77.29	11.28	J-505
J-653	MF	0.00	0.00	1,500.00	3,956.35	True	77.31	11.28	J-505
J-1208	MF	0.00	0.00	1,500.00	4,000.00	True	77.29	11.28	J-505
J-740	MF	0.00	0.00	1,500.00	4,000.00	True	77.27	11.28	J-505
J-754	MF	0.00	0.00	1,500.00	4,000.00	True	77.31	11.28	J-505
J-1009.2	MF	0.00	0.00	1,500.00	4,000.00	True	77.30	11.28	J-505
J-742	MF	0.00	0.00	1,500.00	4,000.00	True	77.36	11.28	J-505
GC-3	MF	0.00	0.00	1,500.00	4,000.00	True	76.98	11.28	J-505
J-522	MF	0.00	3.48	1,503.48	3,509.24	True	77.57	11.28	J-505
J-425	MF	0.00	3.75	1,503.75	4,003.75	True	77.57	11.28	J-505
J-624	MF	0.00	0.00	1,500.00	4,000.00	True	77.62	11.28	J-505
J-1008.2	MF	0.00	0.00	1,500.00	4,000.00	True	77.55	11.28	J-505
J-1008.1	MF	0.00	0.00	1,500.00	4,000.00	True	77.61	11.28	J-505
J-552	MF	0.00	0.00	1,500.00	4,000.00	True	77.24	11.28	J-505
J-500	MF	0.00	0.00	1,500.00	4,000.00	True	77.32	11.28	J-505
J27	MF	0.00	0.00	1,500.00	4,000.00	True	77.54	11.28	J-505
J4	MF	0.00	0.00	1,500.00	4,000.00	True	77.38	11.28	J-505
J-491	MF	0.00	0.00	1,500.00	4,000.00	True	77.68	11.28	J-505
J-1220	MF	0.00	0.00	1,500.00	4,000.00	True	77.93	11.28	J-505
J-240	MF	0.00	0.00	1,500.00	3,972.49	True	78.05	11.28	J-505
J-1008	MF	0.00	6.10	1,506.10	4,006.10	True	77.96	11.28	J-505
J-667	MF	0.00	0.00	1,500.00	4,000.00	True	78.08	11.28	J-505
J-741	MF	0.00	5.33	1,505.33	4,005.32	True	78.01	11.28	J-505
J-625	MF	0.00	0.00	1,500.00	4,000.00	True	78.18	11.28	J-505
J-658	MF	0.00	0.00	1,500.00	3,995.08	True	78.20	11.28	J-505
J-635	MF	0.00	0.00	1,500.00	4,000.00	True	78.19	11.28	J-505
J-1188	MF	0.00	0.00	1,500.00	4,000.00	True	78.15	11.28	J-505
J-426	MF	0.00	0.00	1,500.00	4,000.00	True	78.20	11.28	J-505
J-1000	MF	0.00	0.00	1,500.00	4,000.00	True	78.17	11.28	J-505
J-304	MF	0.00	0.00	1,500.00	4,000.00	True	78.04	11.28	J-505
J-496	MF	0.00	0.00	1,500.00	4,000.00	True	78.33	11.28	J-505
J-610	MF	0.00	0.00	1,500.00	4,000.00	True	78.45	11.28	J-505
J-1016	MF	0.00	0.00	1,500.00	4,000.00	True	78.40	11.28	J-505
J-627	MF	0.00	0.00	1,500.00	4,000.00	True	78.56	11.28	J-505
J-743	MF	0.00	0.00	1,500.00	4,000.00	True	78.51	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-628	MF	0.00	0.00	1,500.00	4,000.00	True	78.58	11.28	J-505
J-636	MF	0.00	0.00	1,500.00	4,000.00	True	78.60	11.28	J-505
J-611	MF	0.00	0.00	1,500.00	4,000.00	True	78.63	11.28	J-505
J-602	MF	0.00	0.00	1,500.00	4,000.00	True	78.66	11.28	J-505
J-633	MF	0.00	0.00	1,500.00	4,000.00	True	78.68	11.28	J-505
J-1215	MF	0.00	0.00	1,500.00	4,000.00	True	78.60	11.28	J-505
J-1210	MF	0.00	0.00	1,500.00	4,000.00	True	78.74	11.28	J-505
J-626	MF	0.00	0.00	1,500.00	4,000.00	True	78.79	11.28	J-505
J-601	MF	0.00	0.00	1,500.00	4,000.00	True	78.85	11.28	J-505
J-1219	MF	0.00	0.00	1,500.00	4,000.00	True	78.78	11.28	J-505
J-447	MF	0.00	0.00	1,500.00	4,000.00	True	78.87	11.28	J-505
J-1191	MF	0.00	3.63	1,503.63	4,003.63	True	78.96	11.28	J-505
J29	MF	0.00	0.00	1,500.00	4,000.00	True	78.87	11.28	J-505
J-645	MF	0.00	8.16	1,508.16	4,008.16	True	79.16	11.28	J-505
J-641	MF	0.00	0.00	1,500.00	4,000.00	True	79.17	11.28	J-505
J-640	MF	0.00	0.00	1,500.00	4,000.00	True	79.20	11.28	J-505
J-523	MF	0.00	3.48	1,503.48	3,540.76	True	79.28	11.28	J-505
J-666	MF	0.00	0.00	1,500.00	4,000.00	True	79.23	11.28	J-505
J-629	MF	0.00	0.00	1,500.00	4,000.00	True	79.27	11.28	J-505
J-1190	MF	0.00	0.00	1,500.00	4,000.00	True	79.22	11.28	J-505
J-302	MF	0.00	0.00	1,500.00	4,000.00	True	79.05	11.28	J-505
J-497	MF	0.00	0.00	1,500.00	4,000.00	True	79.23	11.28	J-505
J-303	MF	0.00	0.00	1,500.00	4,000.00	True	79.09	11.28	J-505
J-639	MF	0.00	0.00	1,500.00	4,000.00	True	79.41	11.28	J-505
J-646	MF	0.00	0.00	1,500.00	4,000.00	True	79.45	11.28	J-505
J-1194	MF	0.00	0.00	1,500.00	4,000.00	True	79.43	11.28	J-505
J-638	MF	0.00	0.00	1,500.00	4,000.00	True	79.52	11.28	J-505
J-267	MF	0.00	0.00	1,500.00	4,000.00	True	79.55	11.28	J-505
J14	MF	0.00	0.00	1,500.00	4,000.00	True	79.69	11.28	J-505
J-632	MF	0.00	0.00	1,500.00	4,000.00	True	79.81	11.28	J-505
J-564	MF	0.00	5.14	1,505.14	4,005.14	True	79.65	11.28	J-505
J-015	MF	0.00	0.00	1,500.00	4,000.00	True	79.82	11.28	J-505
J-600	MF	0.00	0.00	1,500.00	4,000.00	True	79.88	11.28	J-505
J-458	MF	0.00	0.00	1,500.00	4,000.00	True	79.84	11.28	J-505
J-1015	MF	0.00	6.10	1,506.10	4,006.10	True	79.83	11.28	J-505
J-488	MF	0.00	0.00	1,500.00	4,000.00	True	79.80	11.28	J-505
J-225	MF	0.00	5.27	1,505.27	4,005.27	True	79.93	11.28	J-505
J-490	MF	0.00	0.00	1,500.00	4,000.00	True	79.85	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-1214	MF	0.00	0.00	1,500.00	4,000.00	True	80.00	11.28	J-505
J-647	MF	0.00	0.00	1,500.00	4,000.00	True	80.08	11.28	J-505
J-1187	MF	0.00	0.00	1,500.00	4,000.00	True	80.07	11.28	J-505
J-630	MF	0.00	0.00	1,500.00	4,000.00	True	80.15	11.28	J-505
J-631	MF	0.00	0.00	1,500.00	4,000.00	True	80.19	11.28	J-505
J-651	MF	0.00	0.00	1,500.00	4,000.00	True	80.22	11.28	J-505
J-1189	MF	0.00	0.00	1,500.00	4,000.00	True	80.19	11.28	J-505
J-1201	MF	0.00	0.00	1,500.00	4,000.00	True	80.22	11.28	J-505
J-550	MF	0.00	5.41	1,505.41	4,005.41	True	80.21	11.28	J-505
J-486	MF	0.00	0.00	1,500.00	4,000.00	True	80.11	11.28	J-505
J-1184	MF	0.00	3.63	1,503.63	4,003.63	True	80.31	11.28	J-505
J-239	MF	0.00	0.00	1,500.00	4,000.00	True	80.38	11.28	J-505
J-1200	MF	0.00	0.00	1,500.00	4,000.00	True	80.34	11.28	J-505
J-1183	MF	0.00	0.00	1,500.00	4,000.00	True	80.42	11.28	J-505
J-484	MF	0.00	0.00	1,500.00	4,000.00	True	80.47	11.28	J-505
J-665	MF	0.00	0.00	1,500.00	4,000.00	True	80.61	11.28	J-505
J-672	MF	0.00	0.00	1,500.00	4,000.00	True	80.63	11.28	J-505
J-509	MF	0.00	5.86	1,505.86	4,005.86	True	80.66	11.28	J-505
J-1198	MF	0.00	0.00	1,500.00	4,000.00	True	80.69	11.28	J-505
J-671	MF	0.00	0.00	1,500.00	4,000.00	True	80.79	11.28	J-505
J-266	MF	0.00	0.00	1,500.00	4,000.00	True	80.73	11.28	J-505
J31	MF	0.00	0.00	1,500.00	4,000.00	True	80.80	11.28	J-505
J-1195	MF	0.00	0.00	1,500.00	4,000.00	True	80.82	11.28	J-505
J-1197	MF	0.00	0.00	1,500.00	4,000.00	True	80.88	11.28	J-505
J46	MF	0.00	0.00	1,500.00	4,000.00	True	80.95	11.28	J-505
J53	MF	0.00	0.00	1,500.00	4,000.00	True	81.02	11.28	J-505
J-448	MF	0.00	0.00	1,500.00	4,000.00	True	81.11	11.28	J-505
J-1212	MF	0.00	0.00	1,500.00	4,000.00	True	81.20	11.28	J-505
J-508	MF	0.00	5.86	1,505.86	4,005.86	True	81.45	11.28	J-505
J-1196	MF	0.00	3.63	1,503.63	4,003.63	True	81.46	11.28	J-505
J-652	MF	0.00	0.00	1,500.00	4,000.00	True	81.53	11.28	J-505
J-1213	MF	0.00	3.81	1,503.81	4,003.81	True	81.61	11.28	J-505
J-656	MF	0.00	0.00	1,500.00	4,000.00	True	81.82	11.28	J-505
J-512	MF	0.00	4.75	1,504.75	4,004.75	True	81.87	11.28	J-505
J-498	MF	0.00	0.00	1,500.00	4,000.00	True	82.28	11.28	J-505
J-548	MF	0.00	5.41	1,505.41	4,005.41	True	82.34	11.28	J-505
J-238	MF	0.00	0.00	1,500.00	4,000.00	True	82.41	11.28	J-505
J39	MF	0.00	0.00	1,500.00	4,000.00	True	82.42	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-467	MF	0.00	0.00	1,500.00	4,000.00	True	82.47	11.28	J-505
J-670	MF	0.00	0.00	1,500.00	4,000.00	True	82.61	11.28	J-505
J42	MF	0.00	0.00	1,500.00	4,000.00	True	82.78	11.28	J-505
J-255	MF	0.00	0.00	1,500.00	4,000.00	True	82.75	11.28	J-505
J-676	MF	0.00	0.00	1,500.00	4,000.00	True	82.93	11.28	J-505
J-549	MF	0.00	5.41	1,505.41	4,005.41	True	82.92	11.28	J-505
J10	MF	0.00	0.00	1,500.00	4,000.00	True	83.24	11.28	J-505
J-499	MF	0.00	0.00	1,500.00	4,000.00	True	83.35	11.28	J-505
J-558	MF	0.00	4.93	1,504.93	4,004.93	True	83.39	11.28	J-505
J-017	MF	0.00	0.00	1,500.00	4,000.00	True	83.49	11.28	J-505
J-657	MF	0.00	0.00	1,500.00	4,000.00	True	83.56	11.28	J-505
J-018	MF	0.00	0.00	1,500.00	4,000.00	True	83.54	11.28	J-505
J-661	MF	0.00	0.00	1,500.00	4,000.00	True	83.66	11.28	J-505
J32	MF	0.00	0.00	1,500.00	4,000.00	True	83.90	11.28	J-505
J26	MF	0.00	0.71	1,500.71	3,602.81	True	84.12	11.28	J-505
J-513	MF	0.00	4.75	1,504.75	4,004.75	True	84.12	11.28	J-505
J-662	MF	0.00	0.00	1,500.00	4,000.00	True	84.13	11.28	J-505
J-664	MF	0.00	0.00	1,500.00	4,000.00	True	84.26	11.28	J-505
J-483	MF	0.00	0.00	1,500.00	4,000.00	True	84.53	11.28	J-505
J-510	MF	0.00	5.86	1,505.86	4,005.86	True	84.75	11.28	J-505
J-663	MF	0.00	0.00	1,500.00	4,000.00	True	85.68	11.28	J-505
J-235	MF	0.00	0.00	1,500.00	4,000.00	True	85.67	11.28	J-505
J-521	MF	0.00	3.48	1,503.48	4,003.48	True	86.12	11.28	J-505
J48	MF	0.00	0.00	1,500.00	4,000.00	True	86.14	11.28	J-505
J-668	MF	0.00	0.00	1,500.00	4,000.00	True	86.67	11.28	J-505
J-669	MF	0.00	0.00	1,500.00	4,000.00	True	86.71	11.28	J-505
J-532	MF	0.00	2.26	1,502.26	4,002.26	True	86.82	11.28	J-505
J-673	MF	0.00	0.00	1,500.00	4,000.00	True	86.78	11.28	J-505
J28	MF	0.00	0.00	1,500.00	4,000.00	True	86.79	11.28	J-505
J41	MF	0.00	0.00	1,500.00	4,000.00	True	87.09	11.28	J-505
J-561	MF	0.00	5.14	1,505.14	4,005.14	True	87.37	11.28	J-505
J-41.1	MF	0.00	0.00	1,500.00	4,000.00	True	87.59	11.28	J-505
J-514	MF	0.00	4.75	1,504.75	4,004.75	True	87.66	11.28	J-505
J-674	MF	0.00	0.00	1,500.00	4,000.00	True	87.68	11.28	J-505
J-518	MF	0.00	2.95	1,502.95	4,002.95	True	87.73	11.28	J-505
J-551	MF	0.00	0.00	1,500.00	4,000.00	True	87.67	11.28	J-505
J-675	MF	0.00	0.00	1,500.00	4,000.00	True	87.87	11.28	J-505
J-533	MF	0.00	2.26	1,502.26	4,002.26	True	88.71	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System

Existing (2022) MDD+Fire Condition Distribution System Junction Report

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-677	MF	0.00	0.00	1,500.00	4,000.00	True	88.87	11.28	J-505
J-524	MF	0.00	0.00	1,500.00	4,000.00	True	88.94	11.28	J-505
J-678	MF	0.00	8.16	1,508.16	4,008.16	True	89.28	11.28	J-505
J25	MF	0.00	2.25	1,502.25	4,002.25	True	89.55	11.28	J-505
J-536	MF	0.00	2.41	1,502.41	4,002.41	True	89.81	11.28	J-505
J-545	MF	0.00	2.70	1,502.70	4,002.70	True	89.83	11.28	J-505
J47	MF	0.00	0.00	1,500.00	4,000.00	True	90.20	11.28	J-505
J-531	MF	0.00	2.26	1,502.26	4,002.26	True	90.76	11.28	J-505
J-519	MF	0.00	2.95	1,502.95	4,002.95	True	90.90	11.28	J-505
J-517	MF	0.00	2.95	1,502.95	4,002.95	True	90.96	11.28	J-505
J-527	MF	0.00	4.15	1,504.15	4,004.15	True	91.05	11.28	J-505
J-526	MF	0.00	4.15	1,504.15	4,004.15	True	91.32	11.28	J-505
J-547	MF	0.00	0.00	1,500.00	4,000.00	True	91.35	11.28	J-505
J-544	MF	0.00	2.70	1,502.70	4,002.70	True	91.39	11.28	J-505
J-559	MF	0.00	5.14	1,505.14	4,005.14	True	91.38	11.28	J-505
J37	MF	0.00	0.00	1,500.00	4,000.00	True	91.49	11.28	J-505
J-535	MF	0.00	2.41	1,502.41	4,002.41	True	91.68	11.28	J-505
J-537	MF	0.00	2.41	1,502.41	4,002.41	True	91.76	11.28	J-505
J36	MF	0.00	0.00	1,500.00	4,000.00	True	91.96	11.28	J-505
J-546	MF	0.00	0.00	1,500.00	4,000.00	True	92.07	11.28	J-505
J33	MF	0.00	0.00	1,500.00	4,000.00	True	92.09	11.28	J-505
J-528	MF	0.00	4.15	1,504.15	4,004.15	True	92.22	11.28	J-505
J-540	MF	0.00	2.87	1,502.87	4,002.87	True	92.51	11.28	J-505
J-511	MF	0.00	0.00	1,500.00	4,000.00	True	92.67	11.28	J-505
J-515	MF	0.00	0.00	1,500.00	4,000.00	True	92.81	11.28	J-505
J-541	MF	0.00	2.87	1,502.87	4,002.87	True	92.93	11.28	J-505
J-516	MF	0.00	0.00	1,500.00	4,000.00	True	93.05	11.28	J-505
J34	MF	0.00	0.00	1,500.00	4,000.00	True	93.06	11.28	J-505
J-538	MF	0.00	0.00	1,500.00	4,000.00	True	93.08	11.28	J-505
J-539	MF	0.00	2.87	1,502.87	4,002.87	True	93.31	11.28	J-505
J-016	MF	0.00	0.00	1,500.00	4,000.00	True	93.22	11.28	J-505
J-543	MF	0.00	0.00	1,500.00	4,000.00	True	93.75	11.28	J-505
J-542	MF	0.00	0.00	1,500.00	4,000.00	True	94.26	11.28	J-505
J49	MF	0.00	1.13	1,501.13	4,001.13	True	94.82	11.28	J-505
J-520	MF	0.00	0.00	1,500.00	4,000.00	True	94.80	11.28	J-505
J-525	MF	0.00	0.00	1,500.00	4,000.00	True	95.18	11.28	J-505
J11	MF	0.00	6.49	1,506.49	4,006.49	True	95.36	11.28	J-505
J-534	MF	0.00	0.00	1,500.00	4,000.00	True	95.50	11.28	J-505

**GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) MDD+Fire Condition Distribution System Junction
Report**

MDD+Fire - Time: 0.00 hours

Label	Zone	Fire Flow (Needed) (gpm)	Demand (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Satisfies Fire Flow Constraints?	Pressure (Calculated Residual @ Total Flow Needed) (psi)	Pressure (Calculated Zone Lower Limit @ Total Flow Needed) (psi)	Junction w/ Minimum Pressure (Zone @ Total Flow Needed)
J-529	MF	0.00	0.00	1,500.00	4,000.00	True	95.52	11.28	J-505
J-560	MF	0.00	5.14	1,505.14	4,005.14	True	95.60	11.28	J-505
J35	MF	0.00	0.00	1,500.00	4,000.00	True	95.71	11.28	J-505

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1081	2,760.00	MF	0.00	2,842.87	35.85
J-1082	2,758.00	MF	11.56	2,849.38	39.54
J-1080	2,760.00	MF	0.00	2,859.93	43.24
J-1083	2,755.00	MF	0.00	2,861.97	46.28
J-1079	2,756.00	MF	0.00	2,864.84	47.09
J-1112	2,754.29	MF	0.00	2,867.71	49.07
J-1111	2,754.00	MF	0.00	2,880.29	54.64
J-1110	2,753.00	MF	0.00	2,880.29	55.07
J-1218	2,747.00	MF	0.00	2,864.84	50.98
J-1084	2,749.00	MF	0.00	2,870.85	52.72
J-1108	2,752.00	MF	0.00	2,880.29	55.51
J-1109	2,752.00	MF	0.00	2,880.29	55.51
J-1078	2,746.00	MF	0.00	2,864.84	51.42
J-1107	2,748.00	MF	0.00	2,880.29	57.24
J-556	2,760.00	MF	6.10	2,922.90	70.48
J-1106	2,746.00	MF	0.00	2,886.87	60.95
J-1103	2,747.00	MF	0.00	2,893.34	63.31
J-1104	2,747.00	MF	0.00	2,893.34	63.31
J-1105	2,747.00	MF	0.00	2,893.34	63.31
J-1085	2,742.00	MF	0.00	2,879.54	59.50
J-1124	2,750.00	MF	0.00	2,907.78	68.27
J-555	2,755.00	MF	6.10	2,922.85	72.62
J-1123	2,749.00	MF	0.00	2,907.78	68.70
J-1087	2,741.00	MF	0.00	2,889.43	64.22
J-1086	2,740.00	MF	11.56	2,889.43	64.65
J-1094	2,744.00	MF	0.00	2,901.55	68.17
J-553	2,752.00	MF	0.00	2,922.80	73.90
J-1120	2,746.00	MF	3.82	2,907.78	70.00
J-1122	2,746.00	MF	0.00	2,907.78	70.00
J-1091	2,743.00	MF	11.56	2,901.48	68.57
J-1093	2,743.00	MF	0.00	2,901.55	68.60
J-1121	2,745.00	MF	0.00	2,907.78	70.43
J-1088	2,739.00	MF	0.00	2,891.67	66.05
J8	2,748.00	MF	0.00	2,916.63	72.96
J5	2,750.00	MF	0.00	2,922.73	74.73
J-1066	2,749.00	MF	0.00	2,920.39	74.15
J-1098	2,742.00	MF	0.00	2,901.75	69.12
J-703	2,743.79	MF	0.00	2,907.60	70.87
J-704	2,743.64	MF	0.00	2,907.61	70.94
J-705	2,743.35	MF	0.00	2,907.61	71.07
J-1067	2,748.00	MF	0.00	2,920.39	74.59
J-1071	2,748.00	MF	0.00	2,920.41	74.59
J-554	2,749.00	MF	6.10	2,922.82	75.21
J-1102	2,741.00	MF	0.00	2,901.95	69.64
J-1119	2,743.00	MF	0.00	2,907.78	71.29

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-712	2,742.56	MF	0.00	2,907.61	71.41
J-347	2,743.00	MF	0.00	2,908.98	71.81
J-702	2,742.22	MF	0.00	2,907.60	71.55
J-1092	2,740.00	MF	0.00	2,901.55	69.90
J-1070	2,747.00	MF	0.00	2,920.41	75.03
J-706	2,741.99	MF	0.00	2,907.61	71.66
J-1101	2,740.00	MF	0.00	2,901.95	70.07
J-1118	2,742.00	MF	0.00	2,907.77	71.72
J-711	2,741.87	MF	0.00	2,907.60	71.70
J-713	2,741.46	MF	0.00	2,907.61	71.89
J-707	2,741.15	MF	0.00	2,907.62	72.02
J6	2,747.00	MF	0.00	2,922.73	76.03
J-1074	2,746.00	MF	0.00	2,920.44	75.47
J-1097	2,739.00	MF	0.00	2,901.75	70.42
J17	2,740.72	MF	9.32	2,907.59	72.20
J-714	2,740.53	MF	0.00	2,907.62	72.29
J-501	2,746.00	MF	0.00	2,921.82	76.07
J-493	2,741.00	MF	0.00	2,908.88	72.64
J-708	2,740.39	MF	0.00	2,907.62	72.35
J-1062	2,745.00	MF	0.00	2,920.37	75.87
J-1069	2,745.00	MF	14.11	2,920.41	75.89
J3	2,746.00	MF	0.00	2,923.00	76.58
J-1117	2,740.00	MF	0.00	2,907.73	72.57
J-715	2,739.73	MF	0.00	2,907.62	72.64
J-557	2,745.67	MF	0.00	2,922.96	76.71
J-709	2,739.59	MF	0.00	2,907.63	72.70
J-563	2,745.25	MF	9.00	2,922.93	76.87
J-1063	2,744.00	MF	0.00	2,920.37	76.31
J-1065	2,744.00	MF	0.00	2,920.39	76.32
J-1073	2,744.00	MF	0.00	2,920.44	76.34
J-1095	2,737.00	MF	0.00	2,901.66	71.24
J-1096	2,737.00	MF	0.00	2,901.75	71.28
J-1099	2,737.00	MF	0.00	2,901.86	71.33
J-710	2,738.98	MF	0.00	2,907.63	72.97
J-1100	2,737.00	MF	0.00	2,901.95	71.37
J-1116	2,739.00	MF	3.82	2,907.73	73.00
GC-3	2,744.45	MF	0.00	2,922.86	77.19
J-1068	2,743.00	MF	0.00	2,920.41	76.75
J-1072	2,743.00	MF	0.00	2,920.44	76.77
J-716	2,738.06	MF	0.00	2,907.64	73.37
J-717	2,737.80	MF	0.00	2,907.64	73.48
J-726	2,737.80	MF	0.00	2,907.65	73.49
J-552	2,743.53	MF	0.00	2,922.78	77.55
J-727	2,737.20	MF	0.00	2,907.66	73.75
J-1138	2,737.00	MF	0.00	2,907.18	73.63

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1159	2,737.00	MF	7.73	2,907.26	73.66
J-1161	2,737.00	MF	0.00	2,907.26	73.66
J-1153	2,737.00	MF	0.00	2,907.27	73.67
J-500	2,743.00	MF	0.00	2,922.70	77.75
J-1059	2,742.00	MF	0.00	2,920.35	77.16
J4	2,743.00	MF	0.00	2,922.73	77.76
J-1064	2,742.00	MF	0.00	2,920.38	77.18
J-1077	2,742.00	MF	0.00	2,920.46	77.21
J-718	2,737.02	MF	0.00	2,907.65	73.82
J-374	2,736.93	MF	0.00	2,907.54	73.81
J-719	2,736.92	MF	0.00	2,907.65	73.87
J-1113	2,737.00	MF	3.82	2,907.83	73.91
J-1137	2,736.00	MF	8.29	2,907.18	74.06
J-1139	2,736.00	MF	0.00	2,907.18	74.06
J-1141	2,736.00	MF	0.00	2,907.18	74.06
J-1160	2,736.00	MF	0.00	2,907.26	74.10
J-1158	2,736.00	MF	0.00	2,907.26	74.10
J-1154	2,736.00	MF	0.00	2,907.27	74.10
J-1060	2,741.00	MF	0.00	2,920.35	77.60
J-1061	2,741.00	MF	0.00	2,920.37	77.61
J-1115	2,736.00	MF	0.00	2,907.70	74.29
J-1114	2,736.00	MF	0.00	2,907.70	74.29
J-720	2,735.94	MF	0.00	2,907.65	74.29
J-1089	2,734.00	MF	0.00	2,902.13	72.74
J-1090	2,734.00	MF	0.00	2,902.30	72.82
J-370	2,736.00	MF	0.00	2,908.03	74.43
J-728	2,735.66	MF	0.00	2,907.66	74.42
J-1136	2,735.00	MF	0.00	2,907.18	74.50
J-1058	2,740.00	MF	0.00	2,920.35	78.03
J-729	2,735.09	MF	0.00	2,907.66	74.66
J-721	2,735.04	MF	0.00	2,907.66	74.68
J-1056	2,739.00	MF	0.00	2,920.18	78.39
J-1140	2,734.00	MF	0.00	2,907.18	74.93
J-1156	2,734.00	MF	7.73	2,907.26	74.96
J-1151	2,734.00	MF	0.00	2,907.27	74.96
J-1149	2,734.00	MF	0.00	2,907.27	74.97
J-1150	2,734.00	MF	0.00	2,907.27	74.97
J-1076	2,739.00	MF	0.00	2,920.49	78.52
J30	2,734.00	MF	0.00	2,907.47	75.05
J52	2,734.00	MF	0.00	2,907.55	75.09
J-730	2,733.82	MF	0.00	2,907.67	75.22
J-346	2,733.00	MF	0.00	2,907.03	75.30
J-1135	2,733.00	MF	0.00	2,907.19	75.36
J-1134	2,733.00	MF	0.00	2,907.19	75.36
J-1162	2,733.00	MF	0.00	2,907.26	75.39

GBWC-PD 2024 IRP - Mountain Falls System
Existing (2022) PHD Condition Distribution System Junction Report
JCT-IRP - Time: 0.00 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1155	2,733.00	MF	0.00	2,907.27	75.40
J-1152	2,733.00	MF	0.00	2,907.27	75.40
J-1148	2,733.00	MF	0.00	2,907.27	75.40
J-1057	2,738.00	MF	14.11	2,920.33	78.88
J-1039	2,738.00	MF	0.00	2,920.45	78.94
J-722	2,733.05	MF	9.32	2,907.67	75.55
J-731	2,732.58	MF	0.00	2,907.68	75.76
J-1040	2,737.00	MF	0.00	2,920.12	79.23
J-492	2,732.00	MF	0.00	2,907.04	75.73
J-1055	2,737.00	MF	0.00	2,920.18	79.25
J-1142	2,732.00	MF	0.00	2,907.18	75.79
J-1130	2,732.00	MF	0.00	2,907.20	75.80
J-1147	2,732.00	MF	0.00	2,907.27	75.83
J-1075	2,737.00	MF	0.00	2,920.39	79.35
J-1037	2,737.00	MF	0.00	2,920.45	79.37
J-732	2,732.02	MF	0.00	2,907.68	76.00
J-1049	2,736.00	MF	0.00	2,919.76	79.50
J-1041	2,736.00	MF	0.00	2,919.94	79.58
J-1051	2,736.00	MF	0.00	2,920.03	79.62
J-1053	2,736.00	MF	0.00	2,920.15	79.67
J-1054	2,736.00	MF	0.00	2,920.18	79.69
J-1143	2,731.00	MF	0.00	2,907.18	76.22
J-1038	2,736.00	MF	0.00	2,920.45	79.80
J27	2,736.00	MF	0.00	2,920.67	79.90
J-733	2,730.74	MF	0.00	2,907.68	76.55
J-723	2,730.64	MF	0.00	2,907.68	76.60
J-1042	2,735.00	MF	0.00	2,919.88	79.99
J-1050	2,735.00	MF	0.00	2,920.03	80.05
J-1052	2,735.00	MF	0.00	2,920.03	80.05
J-724	2,730.24	MF	0.00	2,907.68	76.77
J-1125	2,730.00	MF	8.29	2,907.18	76.66
J-1132	2,730.00	MF	0.00	2,907.20	76.67
J-1146	2,730.00	MF	7.73	2,907.28	76.70
J-1176	2,730.00	MF	0.00	2,907.50	76.80
J-491	2,735.00	MF	0.00	2,920.52	80.27
J-725	2,729.79	MF	0.00	2,907.69	76.97
J-744	2,729.58	MF	0.00	2,907.71	77.07
J-1045	2,734.00	MF	0.00	2,919.73	80.36
J-1047	2,734.00	MF	0.00	2,919.75	80.36
J-562	2,729.17	MF	9.00	2,907.11	76.99
J-1131	2,729.00	MF	0.00	2,907.20	77.10
J-1170	2,729.00	MF	0.00	2,907.50	77.23
GC-1	2,735.00	MF	0.00	2,923.00	81.34
J-1035	2,733.00	MF	0.00	2,918.26	80.15
J-734	2,728.87	MF	0.00	2,907.70	77.37

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-745	2,728.65	MF	0.00	2,907.71	77.47
J-746	2,728.41	MF	0.00	2,907.71	77.58
J-1046	2,733.00	MF	14.11	2,919.67	80.76
J-1048	2,733.00	MF	0.00	2,919.76	80.80
J-1043	2,733.00	MF	0.00	2,919.80	80.82
J-304	2,733.00	MF	0.00	2,919.90	80.86
J-735	2,728.25	MF	0.00	2,907.70	77.64
J-1133	2,728.00	MF	0.00	2,907.20	77.53
J-1144	2,728.00	MF	0.00	2,907.26	77.56
J-1018	2,732.00	MF	0.00	2,918.26	80.59
J-736	2,727.74	MF	0.00	2,907.71	77.86
J-1044	2,732.00	MF	0.00	2,919.78	81.24
J-747	2,727.25	MF	0.00	2,907.72	78.08
J-384	2,727.00	MF	0.00	2,907.17	77.95
J-1126	2,727.00	MF	0.00	2,907.19	77.96
J-1127	2,727.00	MF	0.00	2,907.20	77.96
J-1157	2,727.00	MF	0.00	2,907.26	77.99
J-1173	2,727.00	MF	0.00	2,907.50	78.09
J-1032	2,731.00	MF	0.00	2,918.26	81.02
J-1036	2,731.00	MF	0.00	2,918.26	81.02
J-1019	2,731.00	MF	0.00	2,918.26	81.02
J-737	2,726.61	MF	0.00	2,907.71	78.36
J-495	2,726.00	MF	0.00	2,907.20	78.39
J-1128	2,726.00	MF	8.29	2,907.21	78.40
J-1145	2,726.00	MF	0.00	2,907.27	78.43
J-1168	2,726.00	MF	0.00	2,907.50	78.53
J-1169	2,726.00	MF	0.00	2,907.50	78.53
J-1033	2,730.00	MF	0.00	2,918.26	81.45
J-1034	2,730.00	MF	0.00	2,918.26	81.45
J-1029	2,730.00	MF	0.00	2,918.26	81.45
J29	2,730.00	MF	0.00	2,919.17	81.84
J-748	2,725.58	MF	0.00	2,907.73	78.81
J-302	2,730.00	MF	0.00	2,919.41	81.95
J-303	2,730.00	MF	0.00	2,919.50	81.99
J-1216	2,729.00	MF	0.00	2,917.12	81.39
J-1129	2,725.00	MF	0.00	2,907.21	78.83
J-390	2,725.00	MF	0.00	2,907.23	78.84
J-1167	2,725.00	MF	0.00	2,907.50	78.96
J-1172	2,725.00	MF	0.00	2,907.50	78.96
J-1030	2,729.00	MF	0.00	2,918.26	81.88
J-1020	2,729.00	MF	8.93	2,918.26	81.88
J-1017	2,729.00	MF	0.00	2,918.26	81.88
J-1022	2,729.00	MF	0.00	2,918.26	81.88
J-738	2,724.75	MF	0.00	2,907.72	79.16
J-1217	2,728.00	MF	0.00	2,917.32	81.91

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1174	2,724.00	MF	0.00	2,907.50	79.39
J-1031	2,728.00	MF	8.93	2,918.26	82.32
J-1026	2,728.00	MF	0.00	2,918.26	82.32
J-1028	2,728.00	MF	0.00	2,918.26	82.32
J-1027	2,728.00	MF	0.00	2,918.26	82.32
J-749	2,723.86	MF	0.00	2,907.73	79.55
J-739	2,723.70	MF	0.00	2,907.73	79.62
J45	2,723.00	MF	0.00	2,907.25	79.72
J-1163	2,723.00	MF	0.00	2,907.26	79.72
J-1006	2,726.00	MF	0.00	2,915.42	81.95
J-1005	2,726.00	MF	0.00	2,915.44	81.96
J-1164.1	2,723.00	MF	0.00	2,907.50	79.82
J-1165	2,723.00	MF	0.00	2,907.50	79.82
J-1166	2,723.00	MF	0.00	2,907.50	79.82
J-1171	2,723.00	MF	6.53	2,907.50	79.82
J-227	2,723.02	MF	0.00	2,907.74	79.92
J-759	2,722.99	MF	0.00	2,907.74	79.93
J-1024	2,727.00	MF	8.93	2,918.26	82.75
J-1023	2,727.00	MF	0.00	2,918.26	82.75
J-1021	2,727.00	MF	0.00	2,918.26	82.75
J-267	2,727.00	MF	0.00	2,918.26	82.75
J-228	2,722.82	MF	0.00	2,907.74	80.01
J-756	2,722.60	MF	0.00	2,907.74	80.10
J-750	2,722.52	MF	0.00	2,907.74	80.13
J-564	2,726.27	MF	9.00	2,917.94	82.93
J-742	2,722.24	MF	0.00	2,907.75	80.26
J-758	2,722.13	MF	0.00	2,907.74	80.31
J-1002	2,725.00	MF	0.00	2,915.48	82.41
J-1003	2,725.00	MF	0.00	2,915.48	82.41
J-1011	2,725.00	MF	0.00	2,915.53	82.43
J-740	2,722.09	MF	0.00	2,907.74	80.32
J-1164	2,722.00	MF	6.53	2,907.49	80.25
J-1009	2,725.00	MF	10.67	2,915.53	82.43
J-1175	2,722.00	MF	0.00	2,907.50	80.26
J-1025	2,726.00	MF	0.00	2,918.26	83.18
J-751	2,721.63	MF	0.00	2,907.74	80.52
J-755	2,721.63	MF	0.00	2,907.74	80.52
J-757	2,721.54	MF	0.00	2,907.74	80.56
J-488	2,725.00	MF	0.00	2,917.32	83.21
J-490	2,725.00	MF	0.00	2,917.40	83.24
J-1007	2,724.00	MF	0.00	2,915.39	82.81
J-1012	2,724.00	MF	0.00	2,915.45	82.83
J-1013	2,724.00	MF	0.00	2,915.45	82.83
J-1220	2,721.00	MF	0.00	2,907.48	80.68
J-1009.2	2,724.00	MF	0.00	2,915.53	82.87

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1177	2,721.00	MF	0.00	2,907.51	80.69
J-1178	2,721.00	MF	0.00	2,907.52	80.70
J-1179	2,721.00	MF	0.00	2,907.52	80.70
J-1180	2,721.00	MF	0.00	2,907.52	80.70
J-752	2,720.99	MF	0.00	2,907.74	80.80
J-741	2,720.59	MF	9.32	2,907.74	80.97
J-753	2,720.47	MF	0.00	2,907.74	81.02
J-486	2,724.00	MF	0.00	2,917.12	83.56
J-430	2,720.46	MF	0.00	2,907.85	81.08
J-496	2,720.00	MF	0.00	2,907.37	81.07
J-1014	2,723.00	MF	0.00	2,915.45	83.26
J-1009.1	2,723.00	MF	0.00	2,915.53	83.30
J-1182	2,720.00	MF	0.00	2,907.51	81.13
J-1181	2,720.00	MF	6.53	2,907.52	81.13
J-754	2,720.03	MF	0.00	2,907.75	81.22
J-429	2,720.03	MF	0.00	2,907.85	81.26
J-1193	2,720.00	MF	0.00	2,907.80	81.25
J-743	2,719.69	MF	0.00	2,907.75	81.36
J-1219	2,719.00	MF	0.00	2,907.30	81.47
J-1008.1	2,722.00	MF	0.00	2,915.42	83.69
J-1001	2,722.00	MF	0.00	2,915.48	83.71
J-1000	2,722.00	MF	0.00	2,915.48	83.71
J-1010	2,722.00	MF	0.00	2,915.53	83.73
J-447	2,718.99	MF	0.00	2,907.55	81.58
J-428	2,718.69	MF	0.00	2,907.85	81.84
J-497	2,718.22	MF	0.00	2,907.58	81.93
J-1008.2	2,721.00	MF	0.00	2,915.15	84.00
J-1008	2,721.00	MF	10.67	2,915.38	84.10
J-1004	2,721.00	MF	0.00	2,915.47	84.14
J-484	2,721.00	MF	0.00	2,915.57	84.18
J-427	2,718.05	MF	0.00	2,907.85	82.12
J-1186	2,718.00	MF	0.00	2,907.76	82.10
J-1192	2,718.00	MF	0.00	2,907.80	82.12
J-426	2,717.66	MF	0.00	2,907.84	82.28
J-015	2,717.50	MF	0.00	2,907.81	82.34
J-458	2,717.45	MF	0.00	2,907.80	82.36
J-266	2,720.00	MF	0.00	2,915.22	84.46
J14	2,717.17	MF	0.00	2,907.77	82.46
J53	2,720.00	MF	0.00	2,915.65	84.65
J-425	2,717.03	MF	6.57	2,907.85	82.56
J-1185	2,717.00	MF	0.00	2,907.76	82.53
J-1188	2,717.00	MF	0.00	2,907.79	82.55
J-1191	2,717.00	MF	6.35	2,907.80	82.55
J-1204	2,717.00	MF	0.00	2,907.95	82.61
J-421	2,716.98	MF	0.00	2,908.11	82.69

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1016	2,719.00	MF	0.00	2,915.30	84.93
J-1215	2,719.00	MF	0.00	2,915.30	84.93
J-1190	2,716.00	MF	0.00	2,907.80	82.98
J-1203	2,716.00	MF	0.00	2,907.95	83.05
J-1205	2,716.00	MF	0.00	2,907.95	83.05
J-419	2,715.72	MF	0.00	2,908.11	83.24
J-420	2,715.33	MF	0.00	2,908.11	83.41
J-1015	2,718.00	MF	10.67	2,915.30	85.36
J31	2,715.00	MF	0.00	2,907.68	83.36
J-424	2,715.00	MF	0.00	2,907.93	83.47
J-418	2,714.86	MF	0.00	2,908.11	83.61
J-448	2,714.53	MF	0.00	2,907.73	83.59
J-619	2,714.74	MF	0.00	2,908.97	84.03
J-416	2,714.27	MF	0.00	2,908.11	83.87
J-550	2,716.00	MF	9.47	2,912.88	85.18
J-1183	2,714.00	MF	0.00	2,907.76	83.83
J-1184	2,714.00	MF	6.35	2,907.76	83.83
J-1187	2,714.00	MF	0.00	2,907.77	83.83
J-1189	2,714.00	MF	0.00	2,907.80	83.85
J-1199	2,714.00	MF	0.00	2,907.81	83.85
J-1202	2,714.00	MF	6.66	2,907.95	83.91
J-417	2,713.82	MF	0.00	2,908.11	84.06
J-413	2,713.65	MF	0.00	2,908.11	84.13
J-618	2,713.79	MF	0.00	2,908.97	84.45
J-607	2,713.59	MF	14.28	2,908.64	84.39
J-606	2,713.51	MF	0.00	2,908.64	84.42
J-415	2,713.32	MF	0.00	2,908.11	84.28
J-423	2,713.02	MF	0.00	2,908.00	84.36
J-1200	2,713.00	MF	0.00	2,907.94	84.34
J-1209	2,713.00	MF	0.00	2,907.99	84.37
J-617	2,713.00	MF	0.00	2,908.97	84.79
J-255	2,715.00	MF	0.00	2,914.78	86.44
J-605	2,712.59	MF	0.00	2,908.64	84.82
J-414	2,712.14	MF	0.00	2,908.11	84.79
J-1194	2,712.00	MF	0.00	2,907.78	84.71
J-1198	2,712.00	MF	0.00	2,907.81	84.72
J-1197	2,712.00	MF	0.00	2,907.81	84.72
J-1196	2,712.00	MF	6.35	2,907.81	84.72
J-498	2,712.00	MF	0.00	2,907.84	84.73
J39	2,712.00	MF	0.00	2,907.88	84.75
J-1201	2,712.00	MF	0.00	2,907.94	84.77
J-1206	2,712.00	MF	0.00	2,907.97	84.79
J-1207	2,712.00	MF	6.66	2,907.99	84.79
J-616	2,712.23	MF	0.00	2,908.97	85.12
J-467	2,711.86	MF	0.00	2,907.89	84.81

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-422	2,711.35	MF	0.00	2,908.05	85.10
J-604	2,711.43	MF	0.00	2,908.64	85.32
J-412	2,711.26	MF	0.00	2,908.11	85.17
J-403	2,711.20	MF	0.00	2,908.19	85.23
J42	2,710.96	MF	0.00	2,907.86	85.19
J-608	2,710.98	MF	4.08	2,908.64	85.52
J-615	2,711.09	MF	0.00	2,908.97	85.61
J-613	2,710.95	MF	0.00	2,908.96	85.67
J-404	2,710.64	MF	0.00	2,908.17	85.46
J-401	2,710.61	MF	6.57	2,908.24	85.51
J-603	2,710.50	MF	0.00	2,908.64	85.73
J-410	2,710.26	MF	6.57	2,908.11	85.60
J-400	2,710.26	MF	0.00	2,908.26	85.66
J-612	2,710.45	MF	0.00	2,908.93	85.87
J-1195	2,710.00	MF	0.00	2,907.80	85.58
J-1214	2,710.00	MF	0.00	2,907.99	85.66
J-1208	2,710.00	MF	0.00	2,907.99	85.66
J-1210	2,710.00	MF	0.00	2,908.01	85.67
J-614	2,710.22	MF	0.00	2,908.97	85.99
J-610	2,710.07	MF	0.00	2,908.69	85.93
J-508	2,710.00	MF	10.26	2,908.50	85.88
J-620	2,710.07	MF	0.00	2,908.98	86.06
J-409	2,709.74	MF	0.00	2,908.11	85.83
J-602	2,709.81	MF	0.00	2,908.64	86.02
J-621	2,709.92	MF	0.00	2,909.00	86.13
J-601	2,709.58	MF	0.00	2,908.61	86.11
J-231	2,709.41	MF	0.00	2,908.11	85.97
J-411	2,709.35	MF	0.00	2,908.11	85.99
J-408	2,709.31	MF	0.00	2,908.11	86.01
J-017	2,709.20	MF	0.00	2,907.83	85.94
J-499	2,709.23	MF	0.00	2,908.03	86.01
J-611	2,709.51	MF	0.00	2,908.92	86.27
J-600	2,709.32	MF	0.00	2,908.43	86.15
J-018	2,709.10	MF	0.00	2,907.83	85.98
J-1211	2,709.00	MF	0.00	2,908.01	86.10
J-1212	2,709.00	MF	0.00	2,908.02	86.11
J-1213	2,709.00	MF	6.66	2,908.03	86.11
J-627	2,709.28	MF	0.00	2,908.93	86.38
J-623	2,709.24	MF	0.00	2,909.01	86.43
J10	2,709.00	MF	0.00	2,908.49	86.31
J38	2,711.00	MF	4.73	2,914.16	87.90
J-406	2,708.62	MF	0.00	2,908.13	86.32
J-405	2,708.62	MF	0.00	2,908.17	86.34
J-229	2,708.52	MF	0.00	2,908.17	86.38
J-622	2,708.73	MF	0.00	2,909.01	86.65

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J32	2,708.00	MF	0.00	2,908.09	86.57
J-624	2,708.27	MF	0.00	2,909.02	86.86
J-628	2,708.23	MF	0.00	2,908.98	86.85
J-634	2,708.13	MF	0.00	2,909.18	86.98
J-402	2,707.77	MF	0.00	2,908.24	86.74
J-625	2,707.80	MF	0.00	2,909.03	87.06
J-243	2,707.43	MF	0.00	2,908.24	86.88
J-635	2,707.67	MF	0.00	2,909.18	87.18
J-407	2,707.28	MF	0.00	2,908.13	86.90
J-649	2,707.58	MF	0.00	2,909.17	87.22
J-230	2,707.22	MF	0.00	2,908.13	86.92
J-650	2,707.43	MF	0.00	2,909.17	87.28
J-629	2,707.26	MF	0.00	2,909.03	87.29
J-626	2,707.21	MF	0.00	2,909.04	87.32
J-637	2,707.21	MF	0.00	2,909.18	87.38
J-633	2,707.20	MF	0.00	2,909.18	87.39
J-549	2,708.00	MF	9.47	2,911.35	87.98
J-636	2,707.00	MF	0.00	2,909.18	87.47
J-483	2,706.66	MF	0.00	2,908.14	87.17
J-630	2,706.61	MF	0.00	2,909.06	87.59
J-632	2,706.64	MF	0.00	2,909.18	87.63
J-631	2,706.35	MF	0.00	2,909.18	87.75
J-638	2,706.24	MF	0.00	2,909.18	87.80
J-639	2,705.89	MF	0.00	2,909.17	87.95
J46	2,705.74	MF	0.00	2,909.18	88.02
J-642	2,705.39	MF	0.00	2,909.17	88.17
J-640	2,705.31	MF	0.00	2,909.17	88.20
J-641	2,704.48	MF	0.00	2,909.17	88.56
J-235	2,703.94	MF	0.00	2,908.30	88.42
J-645	2,704.13	MF	14.28	2,909.17	88.71
J-225	2,705.00	MF	9.23	2,914.16	90.49
J-558	2,705.00	MF	8.63	2,914.16	90.49
J28	2,705.00	MF	0.00	2,914.16	90.49
J-646	2,702.12	MF	0.00	2,909.17	89.58
J-648	2,701.28	MF	0.00	2,909.17	89.94
J-242	2,701.21	MF	0.00	2,909.17	89.97
J48	2,701.00	MF	0.00	2,908.57	89.80
J-512	2,701.00	MF	8.32	2,908.69	89.86
J-551	2,701.95	MF	0.00	2,913.09	91.35
J-647	2,700.44	MF	0.00	2,909.17	90.31
J-509	2,700.00	MF	10.26	2,908.64	90.27
J-651	2,700.16	MF	0.00	2,909.17	90.43
J-655	2,699.78	MF	0.00	2,909.17	90.59
J-654	2,699.69	MF	0.00	2,909.17	90.63
J-653	2,699.20	MF	0.00	2,909.17	90.84

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-241	2,699.07	MF	0.00	2,909.17	90.90
J-659	2,698.25	MF	0.00	2,909.17	91.25
J-652	2,698.16	MF	0.00	2,909.17	91.29
J-513	2,698.00	MF	8.32	2,908.85	91.22
J-660	2,698.08	MF	0.00	2,909.17	91.33
J-667	2,698.07	MF	0.00	2,909.16	91.33
J-666	2,697.98	MF	0.00	2,909.16	91.37
J-656	2,697.79	MF	0.00	2,909.17	91.45
J-561	2,697.49	MF	9.00	2,908.64	91.35
J-658	2,697.62	MF	0.00	2,909.17	91.53
J-240	2,697.52	MF	0.00	2,909.17	91.57
J-665	2,697.45	MF	0.00	2,909.16	91.60
J-548	2,698.00	MF	9.47	2,910.67	92.01
J-239	2,697.30	MF	0.00	2,909.16	91.66
J-662	2,696.93	MF	0.00	2,909.16	91.82
J-661	2,696.43	MF	0.00	2,909.16	92.04
J-664	2,696.31	MF	0.00	2,909.16	92.09
J-663	2,696.14	MF	0.00	2,909.16	92.17
J-657	2,696.08	MF	0.00	2,909.17	92.19
J-514	2,695.50	MF	8.32	2,908.96	92.36
J41	2,695.25	MF	0.00	2,909.16	92.55
J-510	2,695.00	MF	10.26	2,908.81	92.50
J-41.1	2,694.61	MF	0.00	2,909.04	92.77
J-671	2,694.57	MF	0.00	2,909.35	92.93
J-672	2,694.37	MF	0.00	2,909.35	93.01
J-670	2,693.83	MF	0.00	2,909.35	93.25
J-238	2,693.71	MF	0.00	2,909.35	93.30
J-668	2,693.50	MF	0.00	2,909.28	93.36
J47	2,694.00	MF	0.00	2,911.73	94.20
J-676	2,692.54	MF	0.00	2,909.57	93.90
J-669	2,692.34	MF	0.00	2,909.35	93.89
J-673	2,691.84	MF	0.00	2,909.38	94.12
J37	2,690.00	MF	0.00	2,911.42	95.80
J-521	2,689.00	MF	6.09	2,909.09	95.22
J-518	2,689.00	MF	5.16	2,909.14	95.25
J-559	2,689.65	MF	9.00	2,911.13	95.82
J-674	2,689.04	MF	0.00	2,909.55	95.40
J-675	2,688.66	MF	0.00	2,909.57	95.58
J-545	2,688.51	MF	4.73	2,909.89	95.78
J36	2,688.21	MF	0.00	2,910.01	95.96
J-547	2,687.85	MF	0.00	2,910.01	96.12
J-546	2,687.70	MF	0.00	2,909.94	96.15
J33	2,687.00	MF	0.00	2,908.86	95.99
J-517	2,687.00	MF	5.16	2,909.09	96.09
J-522	2,687.00	MF	6.09	2,909.14	96.11

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Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-016	2,686.40	MF	0.00	2,907.82	95.80
J-678	2,687.01	MF	14.28	2,909.75	96.37
J-677	2,686.94	MF	0.00	2,909.67	96.36
J-511	2,686.20	MF	0.00	2,908.91	96.36
J-515	2,685.97	MF	0.00	2,908.94	96.47
J-536	2,685.88	MF	4.22	2,909.56	96.78
J-537	2,685.00	MF	4.22	2,909.67	97.20
J-535	2,684.83	MF	4.22	2,909.45	97.18
J-516	2,684.56	MF	0.00	2,909.08	97.14
J-544	2,684.70	MF	4.73	2,909.68	97.34
J-538	2,684.41	MF	0.00	2,909.70	97.47
J34	2,684.00	MF	0.00	2,909.11	97.39
J-519	2,684.00	MF	5.16	2,909.21	97.44
J-523	2,683.00	MF	6.09	2,909.25	97.89
J-543	2,682.65	MF	0.00	2,909.64	98.21
J-524	2,682.00	MF	0.00	2,909.34	98.36
J-542	2,681.21	MF	0.00	2,909.54	98.79
J-526	2,681.00	MF	7.26	2,909.30	98.77
J-541	2,680.52	MF	5.01	2,909.52	99.08
J-520	2,679.84	MF	0.00	2,909.25	99.25
J-525	2,679.04	MF	0.00	2,909.30	99.62
J-534	2,678.54	MF	0.00	2,909.42	99.89
J-529	2,678.35	MF	0.00	2,909.34	99.94
J-560	2,678.27	MF	9.00	2,909.39	100.00
J35	2,678.00	MF	0.00	2,909.37	100.10
J-539	2,678.00	MF	5.01	2,909.44	100.13
J-527	2,677.00	MF	7.26	2,909.31	100.51
J-540	2,677.00	MF	5.01	2,909.47	100.58
J-532	2,676.00	MF	3.95	2,909.36	100.96
J-528	2,675.00	MF	7.26	2,909.31	101.38
J-531	2,675.00	MF	3.95	2,909.36	101.40
J-533	2,673.00	MF	3.95	2,909.36	102.26
J25	2,672.00	MF	3.94	2,909.36	102.69
J49	2,671.50	MF	1.97	2,909.36	102.91
J11	2,671.50	MF	11.35	2,909.36	102.91
J26	2,671.00	MF	1.24	2,909.36	103.13
J50	2,669.00	MF	2.12	2,909.36	103.99