7.4-3-2 Hydraulic Analysis for Basic Plan Phase 1 (2005)

- Junction Report (for peak time of 09:00hrs)
- Pipe Report (for peak time of 09:00hrs)
- Detailed Report for Tank (Reservoir)

Results of this analysis are applicable for the Priority Project.

Basic Plan Phase 1 (2005) Extended Period Analysis: 9.0 hr / 72.0 hr Junction Report

	I			ction Rep				5
Node Label	Elevation		Demand		Calculated		Pressure	
		Туре		Pattern		Hydraulic Grade		Head
	(m)		(l/s)		(l/s)	(m)	(kPa)	(m)
J-1		Demand	0.00	1.5	0.00		702.56	71.82
J-2		Demand	0.00	1,5	0.00		706.59	72.23
J-3		Demand	0.00	1.5	0.00		696.85	71.24
J-4		Demand	0.00	1.5	0.00		689.07	70.44
J-5		Demand	0.00	1.5	0.00		677.57	69.27
J-6		Demand	0.00	1.5	0.00		651.11	66.56
J-7		Demand	0.00	1.5	0.00		620.28	63.41
J-8		Demand	0.00	1.5	0.00		565.46	57.81
J-9		Demand	0.00	1.5	0.00		486.65	49.75
J-10		Demand	0.00	1.5	0.00		427.86	43.74
J-11		Demand	0.00	1.5	0,00		371.96	38.03
J-12		Demand	0.00	1.5	0.00		320.58	32.77
J-13		Demand	0.00	1.5	0.00		258.88	26.47
J-15		Demand	18.01	1.5	26.87	43.60	221.10	22.60
J-16		Demand	25.12	1.5	37.48		256.21	26.19
J-17		Demand	7.11	1.5	10.61		289.83	29.63
J-18		Demand	7.11	1.5	10.61	37.29	286.56	29.29
J-19		Demand	7.11	1.5	10.61	35.41	268.12	27.41
J-20		Demand	15.84	1.5	23.63		241.66	24.70
J-21	8.0	Demand	14.55	1.5	21.71		228.63	23.37
J-22		Demand	5.81	1.5	8.67		198.59	20.30
J-23		Demand	5.81	1.5	8.67	28.32	189.02	19.32
J-24		Demand	8.74	1.5	13.04		191.35	19.56
J-25		Demand	8.74	1.5	13.04		188.83	19.30
J-26		Demand	8.74	1.5	13.04		185.79	18.99
J-27		Demand	27.82	1.5	41.51	28.01	185.99	19.01
J-28		Demand	7.85				196.59	20.10
J-29		Demand	16,93		25.26		185.96	19.01
J-30		Demand	16.93		25.26		187.41	19.16
J-32		Demand	16.93				187.03	19.12
J-33		Demand	11.24				178.66	18.26
J-34		Demand	16.93		25.26		186.19	19.03
J-36		Demand	5.58		8.33		172.17	17.60
J-37		Demand	5.58				171.80	17.56
J-38		Demand	5.58				170.20	17.40
J-39	8.7	Demand	0.00				194.61	19.90
J-41		Demand	0.00				175.42	17.93
J-42		Demand	0.00		0.00			9.36
J-43		Demand	0.00					9.46
J-44		Demand	15.23					27.22
J-45		Demand	5.62					10,72
J-46	+	Demand	20.37					16.28
J-47		Demand	6.34					13.44
J-48		Demand	20.37					19.14
J-49		Demand	20.37					20.17
J-50		Demand	6.34					18.49
J-51		Demand	6.34					24.80
J-52		Demand	6.34					
J-53	+	Demand	6.34					
J-54		Demand	6.34					
J-55		Demand	18.01					
J-56		Demand	2.78					
J-57	7.4	Demand	12.08					
J-58		Demand	6.34					
J-59		Demand	3.90					
J-60	3.9	Demand	3.90					
J-61		Demand	3.90			49.59	447.88	45.79
J-62	7	Demand	3.90					
J-63		Demand	27.93					

				ction Rep			-	_
Node Label	Elevation	Demand	Demand		Calculated			Pressure
		Type		Pattern		Hydraulic Grade		Head
	(m)		(l/s)		(l/s)	(m)	(kPa)	(m)
J-64	4.0	Demand	24.03	1.5	35.85	38.49	337.40	34.49
J-65		Demand	24.03	1.5	35.85	40.00	346.30	35.40
J-73	4.0	Demand	3.90	1.5	5.82	62.33	570.61	58.33
J-74		Demand	3.90	1.5	5.82	62.56	572.80	58.56
J-77	7.0	Demand	6.34	1.5	9.46	69.94	615.71	62.94
J-81		Demand	8.60	1.5	12.83	67.20	588.86	60.20
J-82		Demand	8.60	1.5	12.83	63.23	559.84	57.23
J-83		Demand	8.60	1.5	12.83	62.44	552.08	56.44
J-84		Demand ·	6.34	1.5	9.46	68.68	603.39	61.68
J-85		Demand	2.58	1.5	3.85	64.95	566.88	57.95
J-86		Demand	2.58		3.85	64.20	549.76	56.20
J-87		Demand	2.58		3.85	63.91	546.91	55.91
J-88		Demand	2.58		3.85		535.45	54.74
J-89		Demand	8.92	1.5	13.31	61.24	520.78	53.24
	,		6.34		9.46		515.76	52.73
J-90		Demand			27.50		514.02	52.55
J-91		Demand	18.43				282.34	28.86
J-92		Demand	12.08		18.02	34.96		
J-93		Demand	12.08		18.02	30.77	235.43	24.07
J-94		Demand	12.08		18.02		207.66	21.23
J-95		Demand	18.53		27.65		162.51	16.61
J-96		Demand_	18.53		27.65		152,24	
J-97		Demand	18.53		27.65		125.99	12.88
J-98		Demand	12.08		18.02		183.61	18.77
J-99		Demand	12.08		18.02		171.07	17.49
J-100		Demand	12.08		18.02		174.28	17.82
J-101	10.0	Demand	10.59		15.80		171.88	
J-102		Demand	10.59		15.80		157.95	
J-103	11.0	Demand	10.59	1.5	15.80		135.88	
J-104	12.0	Demand	10.59	1.5	15.80	23.94	116.80	
J-105		Demand	0.00	1.5	0.00	28,90	169.25	17.30
J-106		Demand	10.59	1.5	15.80	31.41	160.48	16.41
J-107		Demand	10.59		15.80		164.26	16.79
J-108		Demand	10.59		15.80		213,73	
J-109		Demand	6.34		9.46		221.73	
J-110		Demand	16.93		25.26			
J-111		Demand	6.34		9.46			
J-112		Demand	9.12					
J-113		Demand	6.34					
J-114		Demand	0.00					
		Demand	6.34				-	,
J-115			9.12					
J-116		Demand						
J-117		Demand	11.70					
J-118		Demand	5,36					
J-119		Demand	5.36					
J-120		Demand	2.78					
J-121		Demand	2.78					
J-122		Demand	2.78					
J-123		Demand	2.78					
J-124		Demand	2.78					
J-125		Demand	10.05					
J-126		Demand	0.00					
J-127	14.7	Demand	3.00					
J-128		Demand	8.92			60.51		
J-129		Demand	2.58		3.85	61.39		
J-130		Demand	2.58					
J-131		Demand	5.36					
J-132		Demand	5.36					
J-133		Demand	2.58					
J-134		Demand	2.58					
J-135			2.58					
		Demand						
J-136	1.8.0	Demand	2.58	1.5	3.80	7] 03.38	ij 341./3	1 00.38

Node Label	Elevation	Demand		Demand		Calculated	Pressure	Pressure
		Туре	1	Pattern		Hydraulic Grade		Head
	(m)	,,	(l/s)		(l/s)	(m)	(kPa)	(m)
J-137	8.0	Demand	2.58	1.5	3.85	62.63	534,36	54.63
J-138	10.0	Demand	6.85	1.5	10.22			
J-139		Demand -	6.85	1.5	10.22	62.00		
J-140		Demand	4.27	1.5	6.37	61.30	521.42	
J-141		Demand	4.27	1.5	6.37	61.16		
J-142		Demand	4.27	1.5	6.37	61.41	502.90	
J-143		Demand	6.85	1.5	10.22			
J-144		Demand	2.58	1.5	3.85			
J-145		Demand	2.58	1.5	3.85			
J-146		Demand	6.34	1.5	9.46		605.36	
J-147		Demand	6.34	1.5	9.46		611.43	62.51
J-150		Demand	6.34	1.5	9.46		623.22	
J-151		Demand	13.58	1.5 1.5	20.26 20.26			
J-152		Demand Demand	13.58 21.61	1.5	32.24		549.03 521.10	
J-153 J-154		Demand	9,31	1.5	13.89			
J-155		Demand	9.31	1,5	13.89			25.76
J-156		Demand	15.45	1.5	23.05		233.50	
J-157		Demand	20.67	1.5	30.84		200.41	
J-158		Demand	6.49	1.5	9.68			
J-159		Demand	5.22	1.5				
J-160		Demand	5.22	1.5			215.81	22.06
J-161		Demand	5.22	1.5		28.06	215.80	
J-162		Demand	1.27	1.5			259.36	
J-163		Demand	1.27	1.5	1.89	36.26	256.86	26.26
J-164		Demand	1.27	1.5			271.83	27.79
J-165	9.0	Demand	16.24	1.5				
J-166	8.0	Demand	30.21	1.5			403.16	
J-167	8.0	Demand	30.21	1.5				
J-168		Demand	1.27	1.5				27.44
J-169		Demand	1.27	1.5				
J-170		Demand	1.27	1.5			234.86	
J-171		Demand	1.27	1.5				
J-172		Demand	1,27	1.5				
J-173		Demand	1.27 1.27	1.5				
J-175		Demand		1.5 1.5			246.26 214.14	
J-176 J-177		Demand Demand	0.00 00,0	1.5				
J-178		Demand	0.00					
J-179		Demand	1.27					
J-180		Demand	3.00					
J-181		Demand	3.00					
J-182		Demand	3,00					
J-183	,	Demand	3.00					
J-184		Demand	6.55					
J-185		Demand	6.55					
J-186		Demand	6.55	1.5	9.77		183.20	
J-187	13.9	Demand	3.00	1.5	4.48			
J-188	15.0	Demand	5.78					
J-189	18.0	Demand	5.78					
J-190		Demand	6.55					
J-191	_	Demand	6.55					
J-192		Demand	6.55					
J-193		Demand	3.55					
J-194		Demand	3.55					
J-195		Demand	4.92					
J-196		Demand	4.92					
J-197		Demand	13.56					
J-198	+	Demand	8.65					
J-199		Demand	18.96					
J-200	<u> </u>	Demand	10.31	1.5	15.38	31.32	264,35	27.02

Node Label	Flevation	Demand		Demand	Calculated	Calculated	Pressure	Pressure
I Hode Laber	Lictation	Туре	Demand	Pattern		Hydraulic Grade		Head
	(m)	, , , , ,	(l/s)	, autom	(l/s)	(m)	(kPa)	(m)
J-201		Demand	4.92	1.5	7.34	32.24	276.21	28.24
J-202		Demand	4.92	1.5	7.34	32.73	261.46	26.73
J-203		Demand	8.77	1.5	13.08	28.06	186.45	19.06
J-204		Demand	3.55	1.5	5.30		219.12	22.40
J-205		Demand	8.77	1.5	13.08	27.52	210.48	21.52
J-206		Demand	3.55	1.5	5.30		218.80	22.37
J-207		Demand	4.92	1.5	7.34	27.33	208.66	21.33
J-208		Demand	13.56	1.5	20.23	27.37	209.07	21.37
J-209		Demand	4.92	1.5	7.34	26.99	224.89	22.99
J-210	4.0	Demand	4.92	1.5	7.34		224.04	22.90
J211		Demand	13.56	1.5	20.23		223.82	22.88
J-212		Demand	15.45		23.05		231.53	23.67
J-213	•	Demand	30.42	1.5	45,39			<u>4</u> 0.84
J-214		Demand	5.54	1.5	8.27	37.40		28.40
J-215		Demand	6.85	1.5	10.22	38.82	291.74	29.82
J-216		Demand	7.05	1.5	10.52	41.02	293.69	30.02
J-217		Demand	9.63	1.5	14.37	60.32		48.32
J-218		Demand	4.27	1.5				49.20
J-219		Demand	5.54	1.5	8.27	60.24		51.24
J-220		Demand	5.54	1.5	8.27	60.10	490.11	50.10
J-221		Demand	5.36	1.5	8.00			46.30 19.24
J-222		Demand	3.55		5.30			
J-223		Demand	15.20		22.68 37.42			18.22 18.23
J-224		Demand	25.08 15.75	1.5 1.5	23.50			25.45
J-225		Demand		1.5	0.00		128.27	13.11
J-226 J-227		Demand Demand	0.00	1.5	0.00		42.75	4.37
J-228		Demand	22.34	1.5	33.33			23.10
J-229		Demand	43.37	1.5	64.71	31.18		26.68
J-230		Demand	21.03	1.5			267.15	27.31
J-231		Demand	10.31	1.5				27.16
J-232		Demand	10.31	1.5	15.38			26.85
J-233		Demand	21.03				268.71	27.47
J-234		Demand	25.32	1.5	37.78			28.28
J-235		Demand	17.42	1.5				25.39
J-236		Demand	2.78	1.5			507.81	51.91
J-237		Demand	7.91	1.5				26.19
J-238		Demand	7.91	1.5				23.32
J-239		Demand	18.62					18.85
J-240		Demand	7.91	1.5				
J-241		Demand	7.91	1.5		25.14	177.42	18.14
J-242	7.0	Demand	7.91	1,5	11.80	26.56		
J-243		Demand	14.55	1.5	21.71		170.12	
J-244		Demand	14.55					
J-245		Demand	5.81					
J-246		Demand	14.55					
J-247	_	Demand	16.70					18.56
J-248		Demand	8.74					
J-249		Demand	14.43					18.50
J-250	_	Demand	2.15					18.00
J-251		Demand	2.15					16.43
J-252		Demand	2.15				160.50	
J-253		Demand	2.15					16.36
J-254		Demand	2.15					
J-255		Demand	2.15					
J-256		Demand	2.15					
J-257		Demand	28.87					13.79
J-258		Demand	2.15					
J-259	_	Demand	2.15					
J-260 J-261		Demand	28.87					
I. I-7N I	1 5.0	Demand	2.15	1.5	3.21	21.31	159,50	16.31

Node Label	Elevation	Demand		Demand		Calculated	Pressure	Pressure
140de Lubei	Lievation	Type	Deniana	Pattern		Hydraulic Grade		Head
	(m)	ype	(l/s)	1 attent	(l/s)	(m)	(kPa)	(m)
J-262		Demand	2.15	1.5	3.21	21.27	168.92	17.27
J-263		Demand	2.15		3.21	23.22	188.01	19.22
J-264		Demand	2.15	1.5	3.21	22.55	181.50	
J-265		Demand	2.15	1.5	3.21	22.35		
J-266		Demand	5.81	1.5	8.67	22.29	169.17	
J-267		Demand	5.81	1.5	8.67		171.07	
J-268		Demand	18.62	1,5	27.78			
J-269		Demand	31.99	1.5	47.73			12.14
J-270		Demand	18.62	1.5	27.78		152.45	
J-271		Demand	18.62	1.5	27.78		185,97	
J-272		Demand	10.72	1.5	15.99			
J-273		Demand	10.72	1.5	15.99		181.17	18.52
J-274		Demand	10.72	1.5	15,99		183.05	
J-275		Demand	10.72	1.5	15,99			
J-276		Demand	10.72	1.5	15.99			
J-277		Demand	10.72	1.5	15.99		218.83	
J-278		Demand	10.72	1.5	15.99		216.32	
J-279		Demand	36.57	1.5	54.56			
J-281		Demand	0.00	1.5	0.00			
J-282		Demand	36.57	1.5	54.56			24.87
J-283		Demand	36.57	1.5	54.56			
J-284		Demand	36.57	1.5	54.56			
J-285		Demand	11.38		16.98		253.41	
J-286		Demand	11.38		16.98			23.85
J-287		Demand	11.38					
J-288		Demand	11.38		16.98			
J-289		Demand	17.93					
J-290		Demand	17.93		26.75		161.12	
J-291		Demand	17.93				138.59	
J-292		Demand	43.38					
J-293		Demand	25.45		37.97			
J-294		Demand	11.38					
J-295		Demand	11.38					
J-296		Demand	11.38					
J-297		Demand	17.93					
J-298		Demand	17.93					
J-299		Demand	43.38					
J-300		Demand	11.38					
J-301		Demand	29.31					
J-302		Demand	17.93					
J-303		Demand	11.38					
J-304		Demand	11.38					
J-305		Demand	11.38					
J-306		Demand	11.38					
J-307		Demand	11.38					
J-308		Demand	11.38					
J-309		Demand	11.38					
J-310		Demand	11.38	1.5				
J-311		Demand	0.00					
J-312		Demand	0.00					
J-313		Demand	0.00					
J-314		Demand	0.00					
J-315		Demand	0.00					
J-316		Demand	14.03					
J-317		Demand	14.03					
J-319		Demand	26.71					
J-320		Demand	31.99					
J-321		Demand	31.99					
J-323		Demand	29.31					
J-323 J-324		Demand	3.90					
J-325		Demand	3.90					
		I Dellidill	, J.JU	1 1,0	J.02	۳٤./٩	1 000.10	·

NI I I		<u> </u>		Demonstration		Calavilatad	D	D
Node Label	Elevation		Demand		Calculated		1	Pressure
		Туре		Pattern		Hydraulic Grade		Head
	(m)		(l/s)		(l/s)	(m)	(kPa)	(m)
J-326	5.0	Demand	3.90	1.5	5.82	42.85	370.25	37.85
J-327	5.0	Demand	29.31	1.5	43.73	16.99	117.28	11.99
J-328		Demand	6.34	1.5	9.46		623.54	63.74
J-329		Demand	3,90	1.5	5.82		378.77	38.72
J-330		Demand	15.23	1.5	22.72	43.21	297.43	30.41
J-331		Demand	0.00	Fixed	0.00	33.11	245.58	25.11
J-331-New Mohara		Demand	0.00	Fixed	0.00		764.10	78.11
J-332		Demand	0.00	Fixed	0.00		208.10	21.27
J-332-New Mohara		Inflow	1,052.31	Fixed	-1,052.31	3.62	-23.31	-2.38
J-333		Demand	3.90	1.5	5.82	42.84	370.12	37.84
								53.11
J-334		Demand	0.00	1.5	0.00		519.51	
J-335		Demand	3.90	1.5	5.82		683.80	69.91
J-336		Demand	3.90	1,5	5,82	73.97	684.47	69.97
J-337		Demand	0.00	1,5	0.00		296.52	30.31
J-338		Demand	0.00	1.5	0.00		295.67	30.23
J~339		Demand	0.00	1.5	0.00		298.32	30.50
J-340	6.8	Demand	0,00	1.5	0.00		297.40	30.40
J-341		Demand	10.72	1.5	15.99		242.06	24.75
J-342	15.1	Demand	0.00	1.5	0.00	41.84	261.60	26.74
J-343	7.0	Demand	13.58	1.5	20.26	64.00	557.61	57.00
J-345		Demand	22.00	1.5	32.82		394.73	40.35
J-346		Demand	34.84	1.5	51.98		397.08	40.59
J-347		Demand	23.83	1.5	35.55	52.48		44.48
J-348		Demand	23.83	1.5	35.55		484.34	49.51
J-349		Demand	21.44	1.5	31.99		537.46	54.94
J-350		Demand	0.00	1.5	0.00		359.27	36.73
J-351		Demand	0.00	1.5	0.00		343.35	35.10
J-352		Demand	0.00	Fixed	0.00		229.58	23.47
J-353		Demand	0.00	Fixed	0.00		56.02	5.73
					0.00		340.98	34.86
J-354		Demand	0.00	Fixed				
J-355		Demand	0.00	1.5	0.00		136.63	13.97
J-356		Demand	0.00	1.5	0.00		91.99	9.40
J-357		Demand	0.00	1.5	0.00		164.31	16.80
J-358		Demand	0.00	1.5	0.00		694.90	71.04
J-358-Madunaghat		Inflow	526.16	Fixed	-526.16			194.28
J-359		Demand	0.00	1.5	0.00		188.77	19.30
J-360		Demand	31.99	1.5	47.73		131.33	13.43
J-361		Demand	31.99	1.5	47.73		120.40	12.31
J-361-Mohara		Inflow	1,052.31	Fixed				
J-362		Demand	0.00	1.5	0.00			
J-362-Kal	4.5	Inflow	631.39					
J-363		Demand	0.00			26.42	215.41	22.02
J-364		Demand	0.00			· · · · · · · · · · · · · · · · · · ·		
J-365		Demand	0.00					
J-366		Demand	14.03				 	
J-367		Demand	14.03					
J-368		Demand	10.59		15.80			16.16
J-369		Demand	0.00					
J-370		Demand	5.62					
J-371		Demand	0.00					
J-372		Demand	0.00					
J-373		Demand	0.00					
J-374		Demand	0.00					
J-375	21.5	Demand	0,00	Fixed	0.00	32.62	108.73	11.12

Basic Plan Phase 1 (2005) Extended Period Analysis: 9.0 hr / 72.0 hr Pipe Report

				Pipe i		-		Di	11	Culodian	Malaais
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-		Discharge	neadioss		Velocity
						ness	Status			Slope	l l
			. (m)	(mm)		C		(l/s)	(m)	(m/km)	(m/s)
P-2	J-2	J-3	535.0	1,200	Ductile Iron	110	Open	1,138.75	0.50	0.93	1.01
P-3	J-3	J-4	535.0		Ductile Iron		Open	1,138.75	0.50	0.93	1.01
P-4	J-4	J-5	520.0		Ductile Iron		Open	1,080.58	1.78	3.41	1.70
	J-5	J-6	880.0		Ductile Iron		Open	1,080.58	3.00	3.41	1.70
P-5			835.0		Ductile Iron	_	Open	1,080.58	2.85	3.41	1.70
P-6	J-6	J-7					Open	967.18	5,60	2.78	1.52
P-7	J-7	J-B	2,015.0		Ductile Iron						
P-9	J-9	J-10	1,118.0		Ductile Iron		Open	967.18	3.11	2.78	1.52
P-10	J-10	J-11	940.0		Ductile Iron		Open	967.18	2.61	2.78	1.52
P-11	J-11	J-12	9,18.0	900	Ductile Iron	110	Open	967.18	2.55	2.78	1.52
P-12	J-12	J-13	455.0	900	Ductile Iron		Open	449.98	0.31	0.68	0.71
P-13	J-13	T-Battali Hill	735.0	900	Ductile Iron	110	Open	449.98	0.50		0.71
P-15	J-15	J-16	650.0	600	Asbestos Ce	110	Open	468.75	3.41	5.25	1.66
P-16	J-16	J-17	570.0	600	Asbestos Ce		Open	431.27	2.56	4.50	1.53
P-17	J-17	J-18	80.0		Asbestos Ce		Open	66.88	0.33	4.18	0.95
	J-18	J-19	245.0		Asbestos Ce		Open	92.97	1.88		
P-18			440.0		Asbestos Ce		Open	82.36	2.71	6.15	
P-19	J-19	J-20	405.0		Asbestos Ce		Open	58.73	1.33		
P-20	J-20	J-21									
P-21	J-21	J-22	100.0		Asbestos Ce	110	Closed	0.00			
P-22	J-23	J-22	230.0		Asbestos Ce	110	Open	8.67	0.02	•	
P-23	J-24	J-23	1,135.0		Asbestos Ce		Open	38.61	0.24		
P-24	J-24	J-25	290.0		Asbestos Ce		Open	84.16			
P-25	J-25	J-26	290.0	200	PVC		Open	13.04			
P-26	J-25	J-27	650.0	450	Asbestos Ce		Open	58.08			
P-27	J-27	J-28	1,040.0		PVG		Open	11.71	0.92	0.88	0.37
P-28	J-27	J-29	570.0		Asbestos Ce	-	Open	4.86			
P-29	J-30	J-29	400.0		Asbestos Ce		Open	52.39			0.33
	J-32	J-33	500.0		PVC		Open	16.77			0.53
P-32			250.0		Asbestos Ce		Open	50.24			0.32
P-33	J-32	J-34						0.00			
P-34	J-34	T-1	350.0		Mild Steel		Closed				
P-35	J-34	J-36	2,120.0	300			Open	24.98			
P-36	J-36	J-37	430.0		Asbestos Ce		Open	8.33			
P-37	J-36	J-38	430.0		PVC		Open	8.33			
P-40	J-30	PMP-2-Out	180.0	150	PVC	130	Closed	0.00			
P-41	J-41	J-39	670.0	600	Ductile Iron	110	Open	169.92	0.54	0.80	0.60
P-42	J-42	J-41	1,160.0	600	Ductile Iron	110	Open	169.92	0.93	0.80	0.60
P-43	J-43	J-42	1,121.0		Ductile Iron		Open	169.92	0.90	0.80	0.60
	J-355	J-43	1,175.0	600	-		Open	288.00			
P44		J-43	400.0	200			Open	9.46			
P-47	J~46		430.0		PVC		Open	28.46			
P-48	J-48	J-46					Open	128.88			
P-49	J-49	J-48	500.0		Asbestos Ce						
P-50	J-49	J-50	310.0	200			Open	9.46			
P~51	J-51	J-49	135.0				Open	168.73			
P-52	J-52	J-51	50.0				Open	178.19			
P-54	J-52	J-53	215.0	300	Asbestos Ce		Open	45.79			
P-55	J-53	J-54	640.0	300	Asbestos Ce	110	Open	36.33	0.87	1.35	0.51
P-56	J-54	J-55	245.0	200	PVC	130	Open	26.87	1.00	4.09	0.86
P-57	J-54	J-56	30.0	300	Asbestos Ce	110	Closed	0.00	0.00	0.00	0.00
P-58	J-57	J-56	1,640.0	300	Asbestos Ce		Open	43.73	3.13	1.91	0.62
P-59	J58	J-57	865.0		Asbestos Ce	110	Open	61.75	3.12	3,61	0.87
			515.0		Asbestos Ce		Open	71.21			
P-60	J-59	J-58	875.0		PVC		Open	34.91			
P-62	J-61	J-60	325.0		PVC		Open	40.73			
P-63	J-62	J-61			PVC		Open	55.21			
P-64	J-62	J-63	835.0								
P-65	J-63	J-64	880.0		PVC		Open	13.54			
P-66	J-65	J-64	520.0		PVC		Open	22.32			
P-75	J-74	J-73	925.0		PVC		Open	5.82			
P-76	J-74	J-62	210,0	200	PVC		Open_	101.76			
P-84	J-81	J-82	1,055.0		PVC		Open	25.66			
P-85	J-82	J-83	760.0		PVC	130	Open .	12.83	0.79	1.04	0.41
P-86	J-77	J-84	435.0		Asbestos Co		Open	339.82	1.26	2.89	1.20
P-87	J-84	J-85	975.0		Asbestos Co		Open	395.32			
	J-85	J-86	100.0		Asbestos Co		Open	91.70			
P-88			80.0		Asbestos Co		Open	62.14			
P-89	J-86	J-87						74.38			
P-90	J-87	J-88	230.0		Asbestos C		Open				
P-91	J-88	J-89	325.0				Open	70.53			
P-92	J-89	J-90	295.0		Asbestos Co		Open .	41.62			
P-93	J-90	J-91	165.0		Asbestos C		Open	32.16			
P-95	J-92	J-93	610.0	300	Asbestos Co	110	Open	87.51			
P-96	J-93	J-94	610.0		Asbestos Co		Open	69.49	2.74	4.49	0.98
P-97	J-94	J-95	390.0		PVC		Open	40.53			
P-98	J-95	J-96	1,000.0		PVC		Open	12.88			
			390.0		PVC		Ореп	27.65			
P-99	J-96	J-97					Open	32.16			
P-100	J-94	J-98	240.0		Asbestos C						
P-101	J-98	√1– 8 9	770.0	rj 300	Asbestos Co	e(170	Open	14.13	3 0.18	3 0.24	er U.Zi

				Pipe r	leport .				-		
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
						ness	Status	i "		Slope	i 1
		ľ	(m)	(mm)		C		(l/s)	(m)	(m/km)	(m/s)
,											
P-102	J-99	J-100	470.0		Asbestos Ge		Open	11.22	0.07	0.15	0.16
P-103	J-101	J-100	125.0	200	Asbestos Ce	110		6.80	0.05	0.44	0.22
P-104	J-101	J-102	870.0	200	PVC	130	Open	13.70	1.02	1.18	0.44
P-105	J-102	J-103	1,080.0	200	PVC	130	Open	15.80	1.66	1.53	0.50
P~106	J-103	J-104	620.0		PVC	130		15.80	0.95	1.53	0.50
_			195.0	200	Asbestos Cer	110	Open	29.98	1.33	6.83	0.95
P-107	J-105	J-101							1.39	3.01	0.79
P~109	J-107	J-106	460.0	300	Asbestos Cer	110	Open	56.03			
P-110	J-107	J-108	615.0	200	PVC	130		15.80	0.94	1.53	0.50
P-111	J-109	J-107	895.0	300	Asbestos Ce	110	Open	53.47	2.47	2.77	0.76
P-112	J-110	J-109	385.0	300	Asbestos Ce	110	Open	61.67	1.39	3.60	0.87
P~113	J-111	J-110	805.0	300	Asbestos Ce	110	Open	55.57	2.39	2.97	0.79
P-115	J-111	J-113	300.0		PVC		Open	9.46	0.18	0.59	0.30
			570.0		PVC	130	Open	20.26	1.38	2.43	0.64
P-116	J-110	J-114								2.15	
P-117	J-114	J-107	1,150.0		PVC	130		18.99	2.48		0.60
P-119	J-115	J-110	5.0	300	Ductile Iron	110		51.61	0.01	2.59	0.73
P-120	J-116	J-112	195,0	300	Asbestos Cer	110	Open	8.94	0.02	0.10	0.13
P-121	J-117	J-116	245.0	300	Asbestos Ce	110	Open	22.55	0.14	0.56	0.32
P-122	J-118	J-117	50.0	300	Asbestos Ce	110		37.71	0.07	1.45	0.53
P-122 P-123	J-118	J-119	230.0	300	Asbestos Ce	110		10.23	0.03		0.14
						110		2.23	0.00		0.03
P-124	J-119	J-120	165.0		Asbestos Ce					1.17	
P-125	J-120	J-121	65.0		Asbestos Ce	110		33.52	0.08		0.47
P-126	J-121	J-122	340.0	300	Asbestos Ce		Open	22.99	0.20		
P-127	J-122	J-123	340.0	300	Asbestos Ce	110	Open	18.85	0.14		
P-128	J-123	J-124	275.0		Asbestos Ce	110		16.19	0.08	0.30	0.23
P-129	J-124	J-125	355.0		Asbestos Ce	110		12.04	0.06		
			560.0		Ductile Iron	110		517.20			
P-130	J-12	J-126					Open	13.12	0.07	0.23	0.19
P-131	J-125	J-127	335.0		Asbestos Ce						
P~132	J-91	J-112	975.0		Asbestos Co	110		4.67	0.21	0.22	
P~133	J-128	J-117	405.0		Asbestos Ce	110		2.29	0.02		
P~134	J-89	J~128	355.0	200	Asbestos Ce	110	Open	15,60	0.72	2.04	0.50
P-135	J-129	J-118	275.0	300	Asbestos Ce	110	Open	55.94	0.83	3.01	0.79
P-136	J-130	J-129	500.0			110		59.79	1.70	3.40	0.85
	• • • • • • • • • • • • • • • • • • • 		215.0		Asbestos Ce	110		63.64			
P-137	J-87	J-130							0.02	0.03	
P-138	J- <u>131</u>	J-123	325.0		Asbestos Ce		Open	1.49			
P-139	J-132	J-131	325.0		Asbestos Ce		Open	9.49	0.26		0.30
P-140	J-133	J-132	760.0	200	Asbestos Ce		Open	21.89	2.90		
P-141	J-134	J-133	160.0	200	PVC	130	Open	25,74	0.61	3.78	0.82
P-142	J-86	J-135	210.0			130		25.71	0.79	3.77	0.82
P-143	J-135	J-136	50.0			110		21.87	0.03		
	4		325.0		Asbestos Ce	110		48.69			
P-144	J-136	J~1 37							0.70		
P-145	J-137	J-138	325.0		Asbestos Ce			44.84			
P-146	J-139	J-138	130.0		Asbestos Ce	110		12.49	0.02		
P-147	J-139	J-140	420.0	j 200	Asbestos Ce	110	Open	13.98			
P-148	J-140	J-141	275.0	200	Asbestos Ce	110	Open	7.60	0.15	0.54	0.24
P-149	J-142	J-141	130.0		Asbestos Ce	110	Open	15.30	0.26	1.97	0.49
P-150	J-143	J-142	730.0		Asbestos Ce	110		206.35	0.84		
	•	* 	180.0		Asbestos Ce	110		36.68			
P-151	J-143	J-139									
P-152	J-144	J-143	780.0			110	Open	253.26			
P-153	J-144	J-136	180.0	300	Asbestos Ce	110	Open	30.67			
P-154	J-134	J-144	160.0		Asbestos Ce	110	Open	287.78			
P-155	J-145	J-134	115.0	600	Asbestos Ce		Open	317.37	0.29	2.55	1.12
P-156	J-85	J-145	20.0		Asbestos Ce		Open	220.04			
P~157	J-146	J-145	970.0		Asbestos Ce		Open	205.45			
			100.0		Asbestos Ce		Open	279.87			
P-158	J-147	J-146									
P-163	J-152	J-153	990.0		Asbestos Ce		Open	44.10			
P-164	J-153	J-154	700.0		Asbestos Ge		Open	11.85			
P~165	J-154	J-155	405.0	•	Asbestos Ce		Closed	0.00			
P-166	J-156	J-155	195.0	300	Asbestos Ce	110	Open	22,86	0.11	0.57	0.32
P-167	J-156	J-157	245.0	•	Asbestos Ce		Open	127,53	3.38	13.80	1.80
P-168	J-157	J-158	230.0	•	Asbestos Ce		Open	96.69			
			230.0		Asbestos Ce		Open	41.87			,
P-169	J-158	J-159		-							
P~170	J-159	J-160	160.0		Asbestos Ce		Open	26.29			
P~171	J-159	J-161	290.0		PVC		Ореп	7.79			
P-172	J-142	J-162	20.0		Asbestos Ce		Closed	0.00			
P-173	J-162	J-163	95.0		Asbestos Ce		Open	326.93	0.26	2.69	1.16
P~174	J-163	J-164	210.0		Asbestos Ce		Open	295.49			
	J-184	J-165	420.0		Asbestos Ce		Closed	0.00			
P175							Open	40.38			
P-176	J-165	J-166	295.0		PVC						
P-177	J-166	J-167	390.0		PVC		Open	45.07			
P-178	J-164	J-168	160.0		Asbestos Ce		Open	293.60			
P-179	J-168	J-169	20.0		Asbestos Ce		Open	289.81	0.04	2.16	1.02
P-180	J-169	J-170	160.0		Asbestos Ce		Open	287.91			
P-181	J-155	J-171	150.0		Asbestos Ce		Open	0.29			•
			195.0	 	Asbestos Ce			11.79	+		
				200	- menactor Ca	: IIU	Open	: 11./9	u.24		ı U.JÖ
P-182	J-172	J-171	_								
	J-172 J-170	J-172	65.0 295.0	300	Asbestos Ce Ductile Iron	110	Open Open	13.68 1.89	0.01	0.22	0.19

				Pipe F	1eport						
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
						ness	Status			Slope	
		j	(m)	(mm)		С		(l/s)	(m)	(m/km)	(m/s)
P-185	T-ADC Hill	J-173	200.0		Asbestos Cei		Closed	0.00	0.00	0.00	0.00
P-186	J-169	J-175	295.0		Ductile Iron		Closed	0.00	0.00	0.00	0.00
P-187	J-175	J-176	150.0	600	Ductile Iron		Open	499.04	0.88	5.89	1.76
P-188	J-176	J-177	1,860.0	750	Ductile Iron	110	Open	499.04	3.70	1.99	1.13
P-189	J-178	J-175	1,125.0	600	Ductile Iron		Open	517.20	7.08	6.29	1.83
	J-126	J-178	555.0		Ductile Iron	110	Open	517.20	3,49	6.29	1.83
P-190			100.0		Asbestos Ce		Open	10.18	0.00	0.02	0.06
P-191	J-171	J-179	280.0			110		14.86	0.52	1.86	0.47
P-192	J-179	J-180					Open	8.95	0.20	0.73	0.28
P-193	J-180	J-181	280.0	200	-			4.48	0.20	0.20	0.14
P-194	J-181	J-182	260.0				Open		1.97	9.39	1.13
P-195	J-179	J-183	210.0				Open	35.62			
P-196	J-180	J-183	200,0				Open	30.97	1.45	7.25	0.99
P-197	J-163	J-180	455.0			110		29.54	3.02		0.94
P-198	J-183	J-184	85.0		Asbestos Ce	110		62.12	2.23		1.98
P-199	J-184	J-185	115.0			110		29,16	0.75		0.93
P-200	J-185	J-186	420.0	300		110		12.12	0.07	0.18	0.17
P~201	J-186	J-187	340.0		Asbestos Ce	110		0.00	0.00		0.00
P-202	J-127	J-187	220.0			110		4.48	0.01	0.03	0.06
P-203	J-127	J-188	375.0		Asbestos Ce	110		4.16	0.07	0.18	0.13
P-204	J-189	J-188	290.0		Asbestos Ce	110		4.46	0.06		0.14
P-205	J-185	J-190	160.0			130	Open	7.27	0.06		0.23
P-206	J-191	J-190	455.0			130		2.51	0.02	0.05	0.08
P-207	J-191	J-192	115.0			110		7.42	0.06	0.52	0.24
P-207 P-208	J~186	J-192	325.0			110		2.35	0.02		0.07
	J-184	J-193	465.0			110		23.19	0.27	0.59	0.33
P-209	J-193	J-193	130.0		PVC		Open	5.30	0.03		0.17
P-210	J-198	J-194 J-195	590.0			110		4.06	0.10		0.13
P-212		J-196	510.0				Open	11.40	0.58		
P-213	J-197		50.0					67.24	1.52		2.14
P-214	J-198	J-197					Open	0.30			
P-215	J-199	J-198	1,020.0		+	110	Open	4.78	0.15		0.15
P-216	J-199	J-200	670.0					69.85	0.13		
P-217	J-201	J-200	1,450.0					77.10			
P-218	J-202	J-201	650.0				Open	77.19			
P-220	J-158	J-203	260.0				Open	45.14			0.64
P-221	J-203	J-204	615.0				Open	32.05	0.66		0.45
P-222	J-205	J-204	405.0					5.42	0.12		0.17
P-223	J-160	J-205	195.0				Open	18.50			0.59
P-224	J-204	J-206	30.0					32.17	0.03		0.46
P-225	J-206	J-207	730.0	200	PVC	130	Open	2.50			
P-226	J-208	J-207	245.0	200	PVC		Open	4.84			
P-227	J-197	J-208	275.0	200	Asbestos Ce	110	Open	35.61	2.58	9.39	
P-228	J-206	J-209	585.0	300	Asbestos Ce		Open	24.37	0.38	0.65	
P-229	J-209	J210	260.0	300	Asbestos Ce	110	Open	17.03			
P-230	J-210	J-211	195.0					9.69	0.02	0.12	0.14
P-231	J-208	J-211	680.0			130		10.54	0.49	0.72	0.34
P-232	J-156	J-212	115.0				Open	14.37		1.75	
	J-155	J-212	130.0				Open	8.68			
P-233			275.0		PVC		Closed	0.00			
P-234	J-212	J-213		_	PVC		Open	45.39			
P-235	J-165	J-213	180.0 325.0		Asbestos Ce		Open	328.82			
P-236	J-214	J-162					Open	320.02			
P-237	J-215	J-214	500.0		Asbestos Ce		Open	347.31			
P-238	J-216	J-215	730.0		Asbestos Ce						
P-240	J-138	J-217	760.0		Asbestos Ce		Open	47.11			
P-241	J-217	J-218	130.0		Asbestos Co		Open .	29.15			
P-242	J-218	J-125	390.0		Asbestos Co		Open	22.78			
P-243	J-141	J-219	405.0		Asbestos Ce		Open	16.53			
P-244	J-219	J-220	210.0		Asbestos Ce		Open	8.27			
P-245	J-220	J-186	405.0		Asbestos Ce		Closed	0.00			
P-246	J-217	J-221	130.0		Asbestos Co		Open	3.59			
P-247	J-132	J-221	490.0	200	Asbestos Co		Open_	4.41			
P-248	J-193	J-222	355.0		Asbestos Co		Open	9.31			
P-249	J-222	J-223	570.0	300	Asbestos Co	110	Open	4.02	2 0.0		
P-250	J-223	J-191	145.	200	Asbestos C	110	Open	19.70	0.46	3.14	
P-251	J~224	J-223	245.		Asbestos G		Open	1.84		0.04	0.06
P-252	J-225	J-224	375.		Asbestos C		Open	39.2€		11.25	
P-253	J-225	J-223	585.		PVC		Open	36.53			
P-254	J-225	J-198	340.		Asbestos C		Open	79.84			
P-256	J-226	J-227	1,535.		Asbestos C		Open	499.04		_	
	J-229	J-228	860.		Asbestos C		Open	187.89			
P-258		J-229	315.		Ductile Iron		Open	59.24			
P-259	J-200		890.		Asbestos C		Open	49.48			
P-260	J-230	J-229						47.47			
P~261	J-230	J-231	520.		Asbestos C		Open				
P-262	J-231	J-232	130.		Asbestos C		Open	48.70 33.3			
P-263	J-232	J-199	325.		Asbestos C		Open				
P-264	J-233	J-230	65.		O Asbestos C		0 Open	50.19			
P-265	J-233	J-231	570.	10 סי	O Asbestos C	ej 11	0 Open	16.67	7 1.3	1 2.30	0.53

				Pipe F	Report						
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
				1		ness	Status			Slope	
			(m)	(mm)		C		(l/s)	(m)	(m/km)	(m/s)
P-266	J-234	J-233	585.0		Asbestos Cer		Open	56.87	1.81	3.10	0.80
	J-18	J-234	650.0		Asbestos Ce		Open	56.83	2,01	3.09	0.80
P-267			490.0		Asbestos Cei		Open	22.04	1.89	3.86	0.70
P-268	J-234	J-235		-			Open	3.96	0.06	0.16	0.13
P-269	J-225	J-235	375.0		Asbestos Ce			73.22	4.18	4.95	1.04
P-270	J-17	J-225	845.0	300	Asbestos Cer		Open				
P-271	J-125	J-189	245.0		PVC	130	Open	6.71	0.08	0.31	0.21
P-272	J-121	J-189	1,945.0		PVC		Open	6.38	0.56	0.29	0.20
P-273	J-236	J-120	295.0		Asbestos Cei		Open	35.43	0.38	1.29	0.50
P-274	J-56	J-236	195.0	300	Asbestos Cei		Орел	39.58	0.31	1.58	0.56
P-275	J-234	J-237	180.0		Asbestos Cei		Open	116.27	2.09	11.64	1.64
P-276	J-237	J-238	405.0		Asbestos Cer		Орел	104.47	3.87	9.55	1.48
P-277	J-238	J-239	585.0	300	Asbestos Cer	110	Open	92.67	4.47	7.65	1.31
P-278	J-240	J-239	500.0		PVC		Open	1.62	0.01	0.02	0.05
P-279	J-241	J-240	245.0	200	PVC	130	Open	13.42	0.28	1.13	0.43
P-280	J-242	J-241	390.0	200	PVC	130	Open	25.22	1.42	3.64	0,80
P-281	J-21	J-242	650.0	200	PVC	130	Open	37.02	4.81	7.41	1.18
P-282	J-23	J-243	810.0	200	Asbestos Ce	110	Open	21.27	2.93	3.62	0.68
P-283	J-244	J-243	490.0	200	Asbestos Ce	110	Open	0.43	0.00	0.00	0.01
P-284	J-244	J-245	585.0				Ореп	26.69	2.37	4.04	0.85
P-285	J-246	J-244	50.0			110		1.45	0.00		0.05
P-286	J-247	J-246	40.0	200	Asbestos Ce		Open	23.16	0.17		0.74
P-287	J-248	J-247	700.0	200		130		16.70	1.19	1.70	0.53
	J-248 J-249	J-248	1,050.0	-	PVC		Open	10.46	0.75	0.72	0.33
P-288			90.0	-		130		31.99	0.73	5.65	1.02
P-289	J-29	J-249	490.0			110		19.85	1.56		
P-290	J-247	J-250						30.05	2.57	6.86	
P-291	J-250	J-251	375,0 10.0			110		16.11	0.02		
P-292	J-251	J-252						3.21	0.02		0.10
P-293	J-252	J-253	405.0			110					
P-294	J-252	J-254	165.0			130		9.69	0.10		0.31
P-295	J-254	J-255	195.0		PVC	130		8.90	0.10		
P-296	J-255	J-256	325.0			130		23.14	1.01	3.11	0.74
P-297	J-256	J-257	245.0				Open	43.07	2.40		
P-299	J-259	J-258	405.0			130		8.85	0.21	0.52	-
P-300	J-259	J-260	260.0		PVC	130		43.07	2.55		
P-301	J-251	J-261	165.0	200	PVC	130	Open	10.74	0.12	0.75	
P-303	J-261	J-262	195.0	200	PVC	130	Open	5.11	0.04		
P-304	J-263	J-262	325.0	200	PVC	130	Open	33.05	1.95	6.00	1.05
P-305	J-250	J-263	210,0		PVC	130	Open	25.52	0.78	3.72	0.81
P-306	J-263	J-264	730.0		PVC	130		11.93	0.67	0.91	0.38
P-307	J-264	J-265	405.0			130	Open	8.72	0.21	0.51	0.28
P-308	J-265	J-266	245.0		PVC	130		5.51	0.05		
P-309	J-245	J-266	375.0		PVC	130		18.02	0.73		
P-310	J-266	J-267	340.0					49.19	0.81	2.37	0.70
P-311	J-267	J-268	600.0				Open	47.39	1.33		
		J-270	700.0					27.78	0.58		
P-313	J-268		245.0			 		0.00	0.00		
P-314	J-270	J-271	420.0				Open	44.81	0.84		
P-315	J-239	J-271						17.03	0.35		
P-316	J-271	J-272	145.0		Asbestos Ce		Open	+			
P-317	J-272	J-273	490.0		Asbestos Co		Open	5.46			
P-318	J-274	J-273	195.0		Asbestos Ce		Open	10.53			
P-319	J-274	J-272	245.0				Open	4.43			
P-320-1	J∸359	J-274	110.0		PVC		Open	30.96			
P-320-2	J-275	J-359	70.0		PVC		Ореп	9.26			
P-321	J-276	J-275	325.0	-	Asbestos Ce		Open	25.25			
P-322	J-277	J-276	115.0		Asbestos Ce		Open	41.25			
P-323	J-277	J-276	120.0		Asbestos Ce		Open	15.99			
P-324	J-268	J-360	430.0		PVC		Open	34.10			
P-328	J-282	J-283	350.0		Asbestos Ce		Open	219.40			
P-329	J-283	J-284	570.0		Asbestos Ce		Open	164.84			
P-330	J-284	J-285	260.0	450	Asbestos Ce	110	Open	110.28			
P-331	J-285	J-286	730.0	450	Asbestos Ce		Open	157.22	2.06	2.82	
P-332	J-286	J-287	975.0	450	Asbestos Ce	110	Open	140.24	2.23	2.28	0.88
P-333	J-287	J-288	535.0			110	Open	152.77			
P-334	J-288	J-289	745.0		Asbestos Ce		Open	159.70			
P-335	J-289	J-290	650.0		Asbestos Ce		Open	187.87			
P-336	J-290	J-291	780.0		Asbestos Ce		Open	161.12			
P-336 P-337	J-290 J-291	J-292	325.0		Asbestos Co		Open	134.36			
			1,300.0				Open	37.97			
P-338	J-292	J-293						149.88			
P-339	J-285	J-294	780.0		Asbestos Ce		Open				+
P-340	J-294	J-295	650.0				Open	132.90			
P~341	J-295	J-296	160.0		Asbestos Co		Open	115.93			
	J-296	J-297	2,755.0		PVC		Open	21.91			
P-342									1.91		0.57
	J-297	J-298	975.0		PVC		Open	18.06			
P-342		J-299	405.0	200	PVC	130	Open	32.36	2.34	5.78	1.03
P-342 P-343	J-297			200		130 130			2.34 2.14	5.78 3.06	3 1.03 6 0.73

				Pipe i	leport						
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
			.,			ness	Status	.,		Slope	-
			(m)	(mm)	l	Ç	Olatas	(l/s)	(m)	(m/km)	(m/s)
			(m)	(mm)			_				
P-347	J-301	J-302	810.0		PVC		Open	21.93	2.28	2.81	0.70
P-348	J~296	J-303	325.0		PVC		Open	49.90	4.18		1.59
P-349	J~303	J-304	80.0	200	PVC	130	Open	32.92	0.48	5.96	1.05
P-350	J-304	J-305	325.0	200	PVC	. 130	Open	16.98	0.57	1.75	0.54
P-351	J-306	J-304	295.0		PVC	130	Open	1.04	0.00		0.03
P-352	J-306	J-307	325.0		PVC	130	Open	16.98	0.57	1.75	0.54
									1.74		1.62
P-353	J-306	J-308	130.0		PVC	130		50.94			
P-354	J-308	J-309	325.0	200		130	Open	16.98	0.57	1.75	0.54
P-355	J-308	J-310	295.0	200	PVC	130	Open	16.98	0.52	1.75	0.54
P-357	J-114	J-109	165.0	200	PVC	130	Open	1.27	0.00	0.01	0.04
P-361	J52	R−2	30.0	200	Mild Steel	100	Closed	0,00	0.00	0.00	0.00
P-362	R-2	PMP-3-In	10.0	200		130	Open	0,00	0.00		0.00
			20.0	150		100	Closed	0.00	0.00	0.00	0.00
P-363	PMP-3-Out	J-51									
P-364	J-122	PMP-4-Out	20.0	150	Mild Steel	100	Closed	0.00	0.00		0.00
P~365	J-124	PMP-5-Out	30.0	300	Asbestos Ce	110	Closed	0.00	0.00	0.00	0.00
P-368	J-350	J-281	400.0	450	Ductile Iron	110		245.33	2.57	6.43	1,54
P-369	J-281	J-282	251.5	450	Asbestos Ce	110	Open	273.97	1.98	7.89	1.72
P-371	J-228	J-311	368.5	450			Open	154.56	1.01	2.73	0.97
			170.0	200			Closed	0.00	0.00		0.00
P-372	J-220	PMP-8-Out						0.00	0.00		0.00
P-373	J-195	PMP-10-Out	50.0	200		100	Closed				
P-374	J-225	PMP-11-Out	1,200.0	150			Closed	0.00	0.00		0.00
P-375	J-202	PMP-12-Out	170.0	200		_	Closed	0.00	0.00		0.00
P-376	J-201	PMP-13-Out	150.0	200	PVC	130	Closed	0.00	0.00	0,00	0.00
P-378	J-246	PMP-14-Out	10,0	150	Mild Steel		Closed	0.00	0.00		0.00
P-379	J-262	R-5	20.0	200			Closed	0.00	0.00		0.00
			10.0	150		100	Closed	0.00	0.00		0.00
P-380	J-258	T-5									0.63
P-382	J-311	TCV-8-In	160.0	450	Asbestos Cer	110		100.00	0.20	1.22	
P383	J-281	TCV-9-ln	100.0	450	Asbestos Ce	110		0.00	0.00		0.00
P~384	TCV-9-Out	J-311	100.0	450	Asbestos Ce	110		0.00	0.00		0.00
P-385	J-311	J-279	520.0	200	PVC	130	Open	54.56	7.89	15.18	1.74
P-387	J-39	TCV-12-Out	200.5	450	Asbestos Ce		Open	77.65	0.15	0.77	0.49
P-388	J-312	J-30	150.5	450		110		77.65	0.12		0.49
							Open	77.65	0.17		0.49
P-389	TCV-12-In	J-312	219.0	450							
P-391	J-313	J-32	66.5	450		110		92.27	0.07	1.05	0.58
P-392	J-312	TCV-13-Out	10.0	450	Asbestos Ce	110		0.00	0.00		0.00
P-393	J-313	TCV-13-In	10.0	450	Asbestos Ce	110	Open	0.00	0.00	0.00	0.00
P-394	PMP-1-DhakaTR-Out	TCV-14-In	43.5	450	Asbestos Ce	110	Open	0.00	0.00	0.00	0.00
P-395	J~313	TCV-14-Out	40.0	450			Open	0,00	0.00	0.00	0.00
	J-94	J-99	1,010.0		Ductile Iron		Open	19.71	0.44		0.28
P-404									0.02		0.06
P-405	J-99	J-101	595.0		Ductile Iron	110		4.59			
P-407	J-175	T-ADC Hill	200,0	300		110		16.27	0.06		0.23
P-413	J-60	J-324	950.0	300		110		29.09	0.85		0.41
P-414	J-324	J-325	750.0	200	PVC	130	Open	5.82	0.18	0.24	0.19
P-415	J-59	J-326	550.0	300	Asbestos Ce	110	Closed	0.00	0,00	0.00	0.00
P-416	J-324	J-326	200.0	300		110		17.46	0,07	0.35	0.25
P~421	J-77	J-59	10.0	300		110		77.03	0.05		1.09
					PVC				0.03		0.30
P-422	J-328	J-150	55.0				Open	9.46			
P-423	J-328	J-151	1,000.0		PVC	130	Open	32.13	5,70	5.70	1.02
P-424	J-328	J-81	350.0		PVC		Open	36.66	2.55		1.17
P-427	J-39	PMP-1-DhakaTR-In	300.0	450	Ductile Iron	110	Open	0.00	0.00	0.00	0.00
P-429	J-39	J-313	385.0	450	Ductile Iron		Open	92.27	0.41		0.58
P-431	J-150	J-333	325.0		PVC		Closed	0.00	0.00		0.00
			480.0		PVC		Open	5.82	0.12		0.19
P-432	J-333	J-329									
P-434	J-8	J-334	970.0		Ductile Iron		Open	967.18	2.70		1.52
P-435	J-334	J-9	920.0		Ductile Iron		Open	967.18	2.56		1.52
P-438	J-335	J-77	900.0		Asbestos Ce		Open	426.31	3.96		
P-440	J-358	J-336	55.0	600	Ductile Iron	110	Open	950.31	1.07		3.36
P-446	J-268	J~321	660,0		Ductile Iron	110	Open	78.23	3.69		1.11
P-447	J-321	J-269	150.0		Ductile Iron		Open	47.73	0.34		0.68
	•	J-277	480.0		Asbestos Ce		Open	73.24	2.37		
P-453	J-341										
P-454	J-341	T-4	20.0	,	Mild Steel		Closed	0.00	0.00		
P-457	R-9	PMP-2-In	10.0		Mild Steel		Open	0.00	0.00		
P-458	R-10	PMP-4-In	10.0	200	Mild Steel	100	Open	0.00	0.00	0.00	
P-459	R-11	PMP+5-In	10,0		Mild Steel		Open	0.00	0.00	0.00	0.00
P-460	R-12	PMP-8-In	10.0		Mild Steel		Open	0.00	0.00		0.00
P-461	R-13	PMP-10-In	10.0		Mild Steel		Open	0.00	0.00		
			10.0					0.00	0.00		
P-462	R-14	PMP~11-ln			Mild Steel		Open			<u> </u>	
P-463	R-15	PMP-12-In	10.0		Mild Steel		Open	0.00	0.00		
P-464	R-16	PMP-13-In	10.0		Mild Steel	100	Open	0.00	0.00		0.00
P-465	R-17	PMP-14-In	10.0	200	Mild Steel	100	Open	0.00	0.00	0.00	0.00
P-466	J-362	PMP-Pat-1-In	5.0		Ductile Iron		Open	122.66	0.16		2.50
P-467	J-362	PMP-Pat-N1-In	5.0		Ductile Iron		Open	324.57	0.10	-	
								•	0.10		
P-468	J-373	PMP-Mo-1-In	5.0		Mild Steel		Open	284.69		-	
P-480	J-44	J∸330	785.0		Ductile Iron		Open	403.30	3.12		
P-481	J-330	J-11	10.0	600	Ductile fron		Closed	0.00	0,00	0.00	0,00
P-482	J-337	J-111	190.0	300	Ductile Iron	110	Open	74.49	0.97	5.11	1.05
						<u> </u>		<u> </u>			

2-98 1-96 1-98 1-940 1-90 300 Decide from 1.10 Closeed 0.00 0.					Pipe	Report		_				
No. Proceedings	Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
Personal Color Pers		'	ĺ	,,					· · ·			
Part				(20)	(mm)		1	Julius	1160	(m)		(m (n)
2-486								271			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	
2-486 -3-28								_				
P-488												
2-49	P-486	J-338	J-115			Ductile Iron					3.28	
P-940	P-488	J-91	J-339	140.0	300	Ductile Iron		Closed	0.00	0.00	0.00	0.00
P-940	P-489	J-339	J-92	240.0	300	Ductile Iron	110	Open	105.53	2.33	9.73	1.49
2-949 -2-91	P-491	J-9	J-340	10.0	300	Ductile Iron	110	Closed	0.00	0.00	0.00	
2-949 -1-931 TOV-5-In -2-94 2.5 200 PVC 130 Open 2.42 0.00 0.08 0.08 0.08 0.09 0.00												
P-948												
P-498												
P-996												
2-90 1-77 10V-6-10t 3-34 118.0 600 Abstence 0c 110 Open 0.00 0												
Post	P-499					Asbestos Cer	110	Open				
Position	P-500	J-77	TCV-6-In	82.0	600	Asbestos Cer	110	Open	0.00	0.00	0.00	0,00
Position	P-501	TCV-6-Out	J-334	118.0	600	Asbestos Cer	110	Open	0.00	0.00	0.00	0.00
2-920 -1-928 TOV-F-OLE 11.0 200 PVC 130 Open 11.84 0.01 0.87 0.318 1.27 -0-909 -1-15 -3-42 552.5 600 Oueths hen 110 Open 357.83 0.82 3.18 1.27 -0-910 -1-15 -3-43 24.55 300 Oueths hen 110 Open 357.83 0.82 3.18 1.27 -0-911 -1-15 -3-43 24.55 300 Oueths hen 110 Open 357.83 0.82 3.18 0.92 3.18 1.27 -0-913 -1-7 PRV-2-h 20.0 300 Oueths hen 110 Open 46.36 0.82 3.90 0.92 3.90 -0-932 -1-17 PRV-2-h 22.50 300 Oueths hen 110 Open 113.40 0.22 11.11 1.60 -0-932 -1-10 -1-102 370 300 Oueths hen 110 Open 113.40 0.22 11.11 1.60 -0-932 -1-10 -1-102 370 300 Oueths hen 110 Open 113.40 0.22 11.11 1.60 -0-932 -1-10 -1-102 370 300 Oueths hen 110 Open 113.40 0.22 11.11 1.60 -0-932 -1-10 -1-102 370 300 Oueths hen 110 Open 122.66 0.16 31.22 2.50 -0-934 -1-10 -1-102 370 3.0 250 Oueths hen 110 Open 122.66 0.16 31.22 2.50 -0-935 -1-10 -1-20 -1-20 3.0 250 Oueths hen 110 Open 122.66 0.16 31.22 2.50 -0-85 -1-10 -1-20 -1-20 3.0 250 Oueths hen 110 Open 122.66 0.16 31.22 2.50 -0-85 -1-10 -1-20 -1-20 3.0 250 Oueths hen 110 Open 122.66 0.16 31.22 2.50 -0-85 -1-10 -1-20	P-502	TCV-7-In	J-333	4.0	200	PVC			11.64	0.00		
P-950 P-97												
P-516								Open				
P-915												
P-915 J-343 J-152 Z00.5 300 Ductale bron 110 Open 64.36 0.82 3.30 0.91 -9-31 PFV-2-Out J-74 Z25.0 300 Ductale bron 110 Open 113.40 2.50 11.11 1.60 -9-31 PFV-2-Out J-102 37.00 30.00 Ductale bron 110 Open 33.70 13.01 1.18 1.60 -9-535 PMP-Pat-1-Out J-250 3.00 Z50 Ductale bron 110 Open 122.66 2.00 687.38 2.50 -9-556 J-322 PMP-Pat-2-Out J-350 3.00 Z50 Ductale bron 110 Open 122.66 2.00 687.38 2.50 -9-556 PMP-Pat-2-Out J-350 3.00 Z50 Ductale bron 110 Open 122.66 2.00 687.38 2.50 -9-556 PMP-Pat-2-Out J-350 3.00 Z50 Ductale bron 110 Open 122.66 2.00 687.38 2.50 -9-556 PMP-Pat-2-Out J-350 3.00 Z50 Ductale bron 110 Open 122.66 2.00 687.38 2.50 -9-56 PMP-Pat-2-Out J-350 MMP-Pat-2-Out J												
P-939 P-97-2-Out -1-74 225 0 300 Ductale hron 110 Open 113.40 0.22 11.11 180 -9-635 P-96-2-Out -1-74 225 0 300 Ductale hron 110 Open 33.70 1.02 1.18 0.48 -9-535 P-96-2-Out -1-75			' 				110	Open				
P-939												
P-555 PMP-Pet-1-Out J-590 3.0 O Doubtle from 110 Open 122.66 0.0 667.38 2.50 P-555 PMP-Pet-1-Out J-590 3.0 O 250 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-2-Out J-390 3.0 O 250 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-1-Out J-390 3.0 O 250 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-560 J-362 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-561 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-561 J-595 T07V-15-in 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-561 J-595 T07V-15-in 5.0 O 400 Doubtle from 110 Open 499.04 8.30 8.39 1.76 P-583 J-597 J-397 J-387 1.406.5 OO Doubtle from 110 Open 499.04 8.30 8.39 1.76 P-583 J-597 Hedundaphit T-841dH 15,000 500 Doubtle from 110 Open 499.04 8.30 8.39 1.76 P-589 PMP-Ket1-Out J-388 5.0 350 Doubtle from 110 Open 124.73 0.03 0.57 103.88 13.0 P-589 PMP-Ket1-Out J-388 5.0 350 Doubtle from 110 Open 124.73 0.03 0.57 103.88 13.0 P-589 PMP-Ket1-Out J-398 5.0 0 350 Doubtle from 110 Open 124.73 0.03 0.55 103.0 P-589 PMP-Ket1-Out J-398 5.0 0 350 Doubtle from 110 Open 124.73 0.03 0.55 103.0 P-589 PMP-Ket1-Out J-398 5.0 0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.00 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.00 Doubtle from 110 Open 199.53 1.89 3.00 Doubtle from 110 Open 19	P~536	J-7	PRV-2-In		300	Ductile Iron			113.40	0.22	11.11	1.60
P-555 PMP-Pet-1-Out J-590 3.0 O Doubtle from 110 Open 122.66 0.0 667.38 2.50 P-555 PMP-Pet-1-Out J-590 3.0 O 250 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-2-Out J-390 3.0 O 250 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-1-Out J-390 3.0 O 250 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 122.66 0.16 31.22 2.50 P-559 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-560 J-362 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-561 PMP-Pet-1-Out J-391 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-561 J-595 T07V-15-in 5.0 O 400 Doubtle from 110 Open 324.57 2.13 426.93 2.56 P-561 J-595 T07V-15-in 5.0 O 400 Doubtle from 110 Open 499.04 8.30 8.39 1.76 P-583 J-597 J-397 J-387 1.406.5 OO Doubtle from 110 Open 499.04 8.30 8.39 1.76 P-583 J-597 Hedundaphit T-841dH 15,000 500 Doubtle from 110 Open 499.04 8.30 8.39 1.76 P-589 PMP-Ket1-Out J-388 5.0 350 Doubtle from 110 Open 124.73 0.03 0.57 103.88 13.0 P-589 PMP-Ket1-Out J-388 5.0 350 Doubtle from 110 Open 124.73 0.03 0.57 103.88 13.0 P-589 PMP-Ket1-Out J-398 5.0 0 350 Doubtle from 110 Open 124.73 0.03 0.55 103.0 P-589 PMP-Ket1-Out J-398 5.0 0 350 Doubtle from 110 Open 124.73 0.03 0.55 103.0 P-589 PMP-Ket1-Out J-398 5.0 0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.40 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.00 P-599 T-Ketarphite PMP-Ket1-Out J-398 5.0 350 Doubtle from 110 Open 199.53 1.88 375.00 2.00 Doubtle from 110 Open 199.53 1.89 3.00 Doubtle from 110 Open 19	P-537	PRV-2-Out	J-74	225.0	300	Ductile Iron	110	Open	113.40	2.50	11.11	1.60
P-9596 J-932 PMP-Pat-1-0.t J-350 — 3.0 250 Duckte hon 110 Open 122,66 2,00 667,38 250 PMP-Pat-2-0.t J-350 — 3.0 250 Duckte hon 110 Open 122,66 2,00 667,38 250 PMP-Pat-2-0.t J-350 — 3.0 250 Duckte hon 110 Open 122,66 2,00 667,38 250 PMP-Pat-2-0.t J-351 — 5.0 400 Duckte hon 110 Open 324,57 0,10 19,15 2,56 PMP-Pat-2-0.t J-351 — 5.0 400 Duckte hon 110 Open 324,57 0,10 19,15 2,56 PMP-Pat-2-0.t J-351 — 5.0 400 Duckte hon 110 Open 324,57 0,10 19,15 2,56 PMP-Pat-2-0.t J-351 — 5.0 400 Duckte hon 110 Open 324,57 0,10 19,15 2,56 PMP-Pat-2-0.t J-351 — 5.0 600 Duckte hon 110 Open 324,57 0,10 19,15 2,56 PMP-Pat-2-0.t J-351 — 5.0 600 Duckte hon 110 Open 432,67 0,10 19,15 2,56 PMP-Pat-2-0.t J-357 — 1,405,5 600 Duckte hon 110 Open 432,67 0,10 19,15 2,56 PMP-Pat-2-0.t J-357 — 1,405,5 600 Duckte hon 110 Open 432,67 0,10 19,15 2,56 PMP-Pat-2-0.t J-358 — 5.0 30 Duckte hon 110 Open 439,04 3,48 3,59 17,00 PMP-84 J-358-Hockmarghat T-15,000 Duckte hon 110 Open 439,04 3,48 3,59 17,0 PMP-84 J-358-Hockmarghat T-15,000 Duckte hon 110 Open 439,04 3,48 3,59 17,0 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 526,16 2,00 3,62 5 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 124,73 0,54 108,98 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 124,73 0,54 108,98 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 124,73 0,05 4 108,98 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 124,73 0,05 4 108,98 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 124,73 0,05 4 108,98 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 124,73 0,03 6,25 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 124,73 0,03 6,25 130 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 132,66 0,07 14,11 2,01 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 193,56 0,07 14,11 2,01 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 193,56 0,07 14,11 2,01 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 193,56 0,07 14,11 2,01 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 193,56 0,07 14,11 2,01 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 193,56 0,07 14,11 2,01 PMP-84 J-358 — 5.0 350 Duckte hon 110 Open 193,56 0,07 14,11 2,01 PMP-84			J+102		300	Ductile Iron						
P-552 PMP-Part-P-0t J-380 3.0 250 Ductate fron 110 Open 122.66 0.16 31.22 250 P-553 PMP-Part-Not J-380 3.0 250 Ductate fron 110 Open 122.66 0.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.0 667.38 2.5 69.5 69.5 69.5 69.5 69.5 69.5 69.5 69												
Poss PMP-Pex-H-Out												
PMP-Pat-N-Out												
P-561 PMP-Pk-Pk-Pk-Q-Ot. J-528												
PMP-Part-N2-Out												
P-598												
P-5832 J-177 J-357 1,408.5 600 Ductile bron 110 Open 499.04 8,3.0 5.89 1,76 P-583 J-357 J-256 591.5 600 Ductile bron 110 Open 528.16 236.82 15.79 2.88 P-585 PMP-Kal-1-Out J-368 5.0 3.00 Ductile bron 110 Open 124.73 0.03 6.25 15.79 2.88 P-585 PMP-Kal-1-Out J-368 5.0 3.00 Ductile bron 110 Open 124.73 0.03 6.25 1.30 9-258 1.75 PMP-Kal-1-Out J-368 5.0 3.00 Ductile bron 110 Open 124.73 0.03 6.25 1.30 9-258 1.75 PMP-Kal-1-In 5.0 3.00 Ductile bron 110 Open 185.53 2.17 433.61 2.40 P-590 PMP-Kal-2-In 5.0 3.00 Ductile bron 110 Open 185.53 1.88 375.00 2.40 P-590 PMP-Kal-2-In 5.0 3.00 Ductile bron 110 Open 185.53 1.88 375.00 2.40 P-590 PMP-Kal-3-Out 3.388 5.0 3.00 Ductile bron 110 Open 193.66 0.07 14.11 2.01 P-591 PMP-Kal-3-In 5.0 3.50 Ductile bron 110 Open 193.66 0.07 14.11 2.01 P-592 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 0.07 14.11 2.01 P-592 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 0.07 14.11 2.01 P-593 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 0.07 14.11 2.01 P-593 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 0.07 14.11 2.01 P-593 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 0.07 14.11 2.01 P-593 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 1.31 [61.77 2.01 P-594 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 1.31 [61.77 2.01 P-595 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 193.66 1.31 [61.77 2.01 P-595 PMP-Kal-3-Out 3.388 5.0 3.50 Ductile bron 110 Open 288.74 2.51 50.78 2.79 P-596 PMP-Kal-3-Out 3.388 5.0 3.00 Ductile bron 110 Open 288.74 2.51 50.78 2.79 P-596 PMP-Kal-3-Out 5.0 3.00 Ductile bron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	P-561	PMP-Pat-N2-Out	J-351		400	Ductile Iron					426.93	
P-984 J-363 Medunephot T-Battalf HI 15,000.0 500 Ductile Iron 110 Open 499.04 3.48 5.89 1.76 P-984 J-368 Medunephot T-Battalf HI 15,000.0 500 Ductile Iron 110 Open 124.73 0.54 108.98 1.30 P-958 T-Kethrephot P-968 T-Kethre	P-579	J-355	TCV-15-In	5.0	600	Ductile Iron	110	Open	0.00	0.00	0.00	0.00
P-984 J-363 Medunephot T-Battalf HI 15,000.0 500 Ductile Iron 110 Open 499.04 3.48 5.89 1.76 P-984 J-368 Medunephot T-Battalf HI 15,000.0 500 Ductile Iron 110 Open 124.73 0.54 108.98 1.30 P-958 T-Kethrephot P-968 T-Kethre	P-582	J-177	J-357	1,408.5	600	Ductile Iron	110	Open	499.04	8.30	5.89	1.76
P-986 M-Richarl-Out P-985 PM-Richarl-Out P-985 PM-Richarl-Out P-985 PM-Richarl-Out P-985 PM-Richarl-Out P-985 PM-Richarl-Out P-986 PM-Richarl-Out PM-Richarl-Out P-986 PM-Richarl-Out PM-R					600							
P-989 T-Kalurghat PMP-Kal-1-in 5.0 350 Ductile Iron 110 Open 124,73 0.54 108,98 1.30 P-988 T-Kalurghat PMP-Kal-2-in 5.0 350 Ductile Iron 110 Open 169,53 2.17 433,61 2.40 P-989 PMP-Kal-2-Out 3-588 5.0 300 Ductile Iron 110 Open 169,53 2.17 433,61 2.40 P-989 PMP-Kal-2-Out 3-588 5.0 350 Ductile Iron 110 Open 169,53 2.17 433,61 2.40 P-991 PMP-Kal-3-Out 3-588 5.0 350 Ductile Iron 110 Open 183,66 0.07 14.11 2.01 P-991 PMP-Kal-3-Out 3-588 5.0 350 Ductile Iron 110 Open 193,66 0.07 14.11 2.01 P-992 T-Kalurghat PMP-Kal-4-In 5.0 350 Ductile Iron 110 Open 193,66 0.07 14.11 2.01 P-993 T-Kalurghat PMP-Kal-4-In 5.0 350 Ductile Iron 110 Open 193,66 0.07 14.11 2.01 P-993 PMP-Kal-4-Out 3-358 5.0 350 Ductile Iron 110 Open 193,66 0.07 14.11 2.01 P-994 T-Kalurghat PMP-Kal-5-In 5.0 350 Ductile Iron 110 Open 193,66 0.07 14.11 2.01 P-995 PMP-Kal-5-Out 3-358 5.0 350 Ductile Iron 110 Open 193,66 0.07 14.11 2.01 P-995 PMP-Kal-5-Out 3-358 5.0 350 Ductile Iron 110 Open 193,66 0.07 14.11 2.01 P-996 PMP-Kal-5-Out 3-358 5.0 350 Ductile Iron 110 Open 288,74 2.51 502,78 2.79 P-996 PMP-Kal-5-Out 3-358 5.0 350 Ductile Iron 110 Open 288,74 2.51 502,78 2.79 P-996 PMP-Kal-5-Out 3-358 5.0 300 Ductile Iron 110 Open 288,74 2.51 502,78 2.79 P-996 PMP-Kal-5-Out 3-58 PMP-Kal-5-Out 5.0 300 Ductile Iron 110 Open 288,74 2.51 502,78 2.79 P-996 PMP-Kal-5-Out 3-58 PMP-Kal-5-Out 5.0 400 Mild Steel 100 Open 284,69 0.00 0.												
P-888 T-Kalurghate PMP-Kal-1-in 5.0 350 Ductile bron 110 Open 124.73 0.03 6.25 1.30 -898 T-Kalurghate PMP-Kal-2-in 5.0 300 Ductile bron 110 Open 169.53 2.17 433.61 2.40 -898 PMP-Kal-2-Out J-358 5.0 300 Ductile bron 110 Open 169.53 1.88 375.00 2.40 -899 PMP-Kal-2-Out J-358 5.0 350 Ductile bron 110 Open 193.66 0.07 14.11 2.01 -892 T-Kalurghate PMP-Kal-3-in 5.0 350 Ductile bron 110 Open 193.66 0.07 14.11 2.01 -893 PMP-Kal-3-Out J-358 5.0 350 Ductile bron 110 Open 193.66 0.07 14.11 2.01 -894 T-Kalurghate PMP-Kal-4-In 5.0 350 Ductile bron 110 Open 193.66 0.07 14.11 2.01 -895 PMP-Kal-4-Out J-358 5.0 350 Ductile bron 110 Open 193.66 0.07 14.11 2.01 -895 PMP-Kal-5-In J-358 5.0 350 Ductile bron 110 Open 193.66 0.07 14.11 2.01 -895 PMP-Kal-5-In J-358 5.0 350 Ductile bron 110 Open 288.74 0.13 25.87 2.79 -895 PMP-Kal-5-In T-Kalurghate 5.0 300 Ductile bron 110 Open 0.00 0.00 0.00 -897 J-358 PMP-Kal-6-Out 5.0 300 Ductile bron 110 Open 0.00 0.00 0.00 -896 PMP-Mal-0-I-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.68 331.64 2.27 -806 J-373 PMP-Mal-2-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -806 PMP-Mal-3-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -806 PMP-Mal-3-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -806 PMP-Mal-3-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -806 PMP-Mal-3-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -806 PMP-Mal-3-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -807 PMP-Mal-3-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.2												
P-588						,						
P-589 PMP-Kat-2-Out J-358 5.0 300 Ductile fron 110 Open 169.53 1.88 375.00 2.40 -590 T-Kalurphuk PMP-Kat-3-In 5.0 350 Ductile fron 110 Open 193.66 1.31 261.77 2.01 -591 PMP-Kat-3-Out J-358 5.0 350 Ductile fron 110 Open 193.66 0.07 14.11 2.01 -592 T-Kalurphuk PMP-Kat-4-In 5.0 350 Ductile fron 110 Open 193.66 0.07 14.11 2.01 -593 PMP-Kat-4-Out J-358 5.0 350 Ductile fron 110 Open 193.66 1.31 261.77 2.01 -594 T-Kalurphuk PMP-Kat-5-In 5.0 350 Ductile fron 110 Open 193.66 1.31 261.77 2.01 -595 PMP-Kat-6-Out J-358 5.0 350 Ductile fron 110 Open 268.74 2.51 502.78 -596 PMP-Kat-6-In T-Kalurphuk 5.0 300 Ductile fron 110 Open 0.00 0.00 0.00 0.00 -597 J-358 PMP-Kat-6-Out J-1 5.0 300 Ductile fron 110 Open 0.00 0.00 0.00 0.00 -602 PMP-Mo-1-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -603 J-1 J-2 850.0 1.200 Ductile fron 110 Open 284.69 1.66 331.64 2.27 -606 J-373 PMP-Mo-3-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -606 J-373 PMP-Mo-3-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -606 J-373 PMP-Mo-3-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -606 J-373 PMP-Mo-4-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -606 J-373 PMP-Mo-4-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -606 J-373 PMP-Mo-4-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -607 PMP-Mo-4-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -608 J-373 PMP-Mo-4-In 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 -609 J-373 PMP-Mo-4-In 5.0 400 Mild Steel 100 Open 284.69 0.00 0.00 0.00 -609												
P-591 PMP-Kal-3-Out J-358 5.0 350 Ductile Ivon 110 Open 193.66 0.07 14.11 2.01 P-591 PMP-Kal-3-Out J-358 5.0 350 Ductile Ivon 110 Open 193.66 0.07 14.11 2.01 PMP-Kal-4-Out J-358 5.0 350 Ductile Ivon 110 Open 193.66 0.07 14.11 2.01 PMP-Kal-4-Out J-358 5.0 350 Ductile Ivon 110 Open 193.66 1.31 261.77 2.01 PMP-Kal-4-Out J-358 5.0 350 Ductile Ivon 110 Open 193.66 1.31 261.77 2.01 PMP-Kal-5-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII												
P-961 PMP-Kat-3-Out J-358 5.0 350 Ductile Iron 110 Open 193.66 1.31 261.77 2.01 P-952 PMP-Kat-4-Uh 5.0 350 Ductile Iron 110 Open 193.66 1.31 261.77 2.01 P-954 PMP-Kat-4-Uh J-358 5.0 350 Ductile Iron 110 Open 193.66 1.31 261.77 2.01 P-954 PMP-Kat-4-Uh J-358 5.0 350 Ductile Iron 110 Open 193.66 1.31 261.77 2.01 P-954 T-Kalurghet PMP-Kat-5-In 5.0 350 Ductile Iron 110 Open 288.74 0.13 25.87 2.79 P-956 PMP-Kat-6-Uh J-358 5.0 350 Ductile Iron 110 Open 288.74 0.13 25.87 2.79 P-956 PMP-Kat-6-Uh J-358 5.0 350 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-957 J-358 PMP-Kat-6-Ut 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-957 J-358 PMP-Kat-6-Ut 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	P-589	PMP-Kal-2-Out	J-358									
P-9593 PHP-Kal-P-Oxt	P-590	T-Kaiurghat	PMP-Kal-3-In		350	Ductile Iron	110	Open	193.66		14.11	2.01
P-9593 PHP-Kal-P-Oxt	P-591	PMP-Kaf-3-Out	J-358	5.0	350	Ductile Iron	110	Open	193.66	1.31	261.77	2.01
P-594 T-Kalurghat J-258 5.0 350 Ductile Iron 110 Open 193.66 1.31 261.77 2.01 -5954 T-Kalurghat PMP-Kal-5-In 5.0 350 Ductile Iron 110 Open 288.74 2.51 502.78 2.79 -5965 PMP-Kal-5-Out J-358 5.0 350 Ductile Iron 110 Open 268.74 2.51 502.78 2.79 -5968 PMP-Kal-5-In T-Kalurghat 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 -5962 PMP-Mal-1-Out J-1 5.0 400 Mid Steel 100 Open 284.69 1.66 331.64 2.27 -603 J-1 J-2 850.0 1.200 Ductile Iron 110 Open 284.69 0.99 17.92 2.27 -604 J-373 PMP-Ma-2-In 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -605 PMP-Ma-2-Out J-1 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -606 J-373 PMP-Ma-3-In 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -607 PMP-Ma-3-Out J-1 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -608 J-373 PMP-Ma-3-In 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -609 PMP-Ma-3-Out J-1 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -609 J-373 PMP-Ma-4-In 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -609 PMP-Ma-3-Out J-1 5.0 400 Mid Steel 100 Open 284.69 0.99 17.92 2.27 -609 PMP-Ma-3-Out J-1 5.0 400 Mid Steel 100 Open 284.69 1.66 331.64 2.27 -609 J-381 J-279 77.00 200 PVC 130 Open 284.69 1.66 331.64 2.27 -611 J-382-Kal T-Kalurghat 5.0 1.000 Ductile Iron 110 Open 284.69 1.66 331.64 2.27 -611 J-381 J-279 77.00 200 PVC 130 Olevatile Iron 110 Open 284.69 1.66 331.64 2.27 -611 J-381 J-279 77.00 200 PVC 130 Olevatile Iron 110 Open 284.69 1.66 331.64 2.27 -613 J-381 J-279 77.00 200 PVC 130 Olevatile Iron 110 Open 260.73 4.22 83.47 3.69 -623 J-374				5.0								
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P-605 PMP-Mo-2-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-606 J-373 PMP-Mo-3-in 5.0 400 Mild Steel 100 Open 284.69 0.09 17.92 2.27 P-608 J-373 PMP-Mo-4-in 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-608 J-373 PMP-Mo-4-in 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-608 J-373 PMP-Mo-4-in 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-609 PMP-Mo-4-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-611 J-362-Kal T-Kalurghat 5.0 1.000 Ductile Iron 110 Open 284.69 1.66 331.64 2.27 P-611 J-362-Kal T-Kalurghat 5.0 1.000 Ductile Iron 110 Open 23.86 1.12 3.29 0.76 P-614 J-380 J-381 J-279 770.0 200 PVC 130 Open 23.86 1.12 3.29 0.76 P-619 J-374 PMP-N.Mohara-1-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-621 PMP-N.Mohara-1-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-622 T-Patenga J-362 30.0 600 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-623 J-374 PMP-N.Mohara-2-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-623 PMP-N.Mohara-2-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-629 PMP-N.Mohara-2-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-631 TCV-8-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-633 J-374 PMP-N.Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-635 J-374 PMP-N.Mohara-4-In 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	P-603	J-1	J-2	850.0	1,200	Ductile Iron	110	Open	1,138.75	0.79	0.93	1.01
P-605 PMP-Mo-2-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-606 J-373 PMP-Mo-3-in 5.0 400 Mild Steel 100 Open 284.69 0.09 17.92 2.27 P-608 J-373 PMP-Mo-4-in 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-608 J-373 PMP-Mo-4-in 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-608 J-373 PMP-Mo-4-in 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-609 PMP-Mo-4-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-611 J-362-Kal T-Kalurghat 5.0 1.000 Ductile Iron 110 Open 284.69 1.66 331.64 2.27 P-611 J-362-Kal T-Kalurghat 5.0 1.000 Ductile Iron 110 Open 23.86 1.12 3.29 0.76 P-614 J-380 J-381 J-279 770.0 200 PVC 130 Open 23.86 1.12 3.29 0.76 P-619 J-374 PMP-N.Mohara-1-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-621 PMP-N.Mohara-1-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-622 T-Patenga J-362 30.0 600 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-623 J-374 PMP-N.Mohara-2-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-623 PMP-N.Mohara-2-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-629 PMP-N.Mohara-2-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-631 TCV-8-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-633 J-374 PMP-N.Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-635 J-374 PMP-N.Mohara-4-In 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	P-604	J-373	PMP-Mo-2-In	5.0	400	Mild Steel	100	Open	284.69	0.09	17.92	2.27
P-606 J-373 PMP-Mo-3-In 5.0 400 Mild Steel 100 Open 284.69 0.09 17.92 2.27 P-607 PMP-Mo-3-Out J-1 5.0 400 Mild Steel 100 Open 284.69 0.09 17.92 2.27 P-608 J-373 PMP-Mo-4-In 5.0 400 Mild Steel 100 Open 284.69 0.09 17.92 2.27 P-609 PMP-Mo-4-Out J-1 5.0 400 Mild Steel 100 Open 284.69 0.09 17.92 2.27 P-609 PMP-Mo-4-Out J-1 5.0 400 Mild Steel 100 Open 284.69 1.66 331.64 2.27 P-619 J-382-Kel T-Kalurghat 5.0 1,000 Ductile Iron 110 Open 631.39 0.00 0.76 0.80 P-611 J-382-Kel T-Kalurghat 5.0 1,000 Ductile Iron 110 Open 631.39 0.00 0.76 0.80 P-615 J-381 J-279 77.0. 200 PVC 130 Ober 284.69 1.12 3.29 0.76 P-619 J-374 PMP-NMohara-1-In 5.0 300 Ductile Iron 110 Open 280.73 0.26 51.83 3.69 P-621 PMP-N Mohara-1-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-623 J-374 PMP-N Mohara-2-In 5.0 300 Ductile Iron 110 Open 884.47 0.52 17.34 3.16 P-623 J-374 PMP-N Mohara-2-In 5.0 300 Ductile Iron 110 Open 884.47 0.52 17.34 3.69 P-623 J-374 PMP-N Mohara-3-In 5.0 300 Ductile Iron 110 Open 730.94 0.00 5.63 1.90 P-629 PNP-N Mohara-2-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 730.94 0.00 5.63 1.90 P-629 PMP-N Mohara-2-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-630 J-374 PMP-N Mohara-3-In 5.0 300 Ductile Iron 110 Open 730.94 0.00 5.63 1.90 P-631 TCV-8-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-635 J-374 PMP-N Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-635 J-374 PMP-N Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-635 J-374 PMP-N Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-635 J-374 PMP-N Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-635 J-374 PMP-N Mohara-5-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-636 PMP-N Mohara-4-In 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.												
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P-619 J-374 PMP-N.Mohara-1-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 -621 PMP-N.Mohara-1-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -622 T-Patenga J-362 30.0 600 Ductile Iron 110 Open 394.47 0.52 17.34 3.16 -623 J-374 PMP-N.Mohara-2-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 -623-2 PSV-Dmy1-Out T-Khulshi-el 0.5 700 Ductile Iron 110 Open 730.94 0.00 5.63 1.90 -629 PMP-N.Mohara-2-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -630 J-374 PMP-N.Mohara-3-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 -631 TCV-8-Out J-363 146.5 450 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 -632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -635 J-374 PMP-N.Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -636 PMP-N.Mohara-4-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -636 PMP-N.Mohara-4-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -636 PMP-N.Mohara-4-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -637 J-363 FCV-2-Out T-Patenga 0.5 450 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 -644 PMP-Mo-5-In J-373 5.0 400 Ductile Iron 110 Open 100.00 0.00 0.00 0.00 -645 J-1 PMP-Mo-5-Out 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 -646 PMP-N.Mohara-5-In J-374 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 -653 J-363 TCV-16-In 0.5 600 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 -656 J-331 J-202 420.0 450 Ductile Iron 110 Open 0.00 0.	P-615	J-361	J-279	770.0	200	PVC	130	Closed	0.00	0.00	0.00	0.00
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P-632 PMP-N.Mohara-3-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-635 J-374 PMP-N.Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-636 PMP-N.Mohara-4-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-637 J-363 FCV-2-In 300.0 450 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-638 FCV-2-Out T-Patenga 0.5 450 Ductile Iron 110 Open 100.00 0.00 1.22 0.63 P-644 PMP-Mo-5-In J-373 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-645 J-1 PMP-Mo-5-Out 5.0 400 Ductile Iron 110 Open	P-631	TCV-8-Out	J-363	146.5	450	Ductile Iron	110	Open	100.00	0.18	1.22	0.63
P-635 J-374 PMP-N.Mohara-4-In 5.0 300 Ductile Iron 110 Open 260.73 0.26 51.83 3.69 P-636 PMP-N.Mohara-4-Out J-331-New Mohara 5.0 300 Ductile Iron 110 Open 260.73 4.42 883.47 3.69 P-637 J-363 FGV-2-In 300.0 450 Ductile Iron 110 Open 100.00 0.37 1.22 0.63 P-638 FCV-2-Out T-Patenga 0.5 450 Ductile Iron 110 Open 100.00 0.00 1.22 0.63 P-644 PMP-Mo-5-In J-3373 5.0 400 Ductile Iron 110 Open 0.00 <td></td>												
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P-647 J-331-New Mohara PMP-N.Mohara-5-Ou 5.0 300 Ductile Iron 110 Open 0.00 0.	P-646	PMP-N Mohara-5-In	J-374	5.0	300	Ductile Iron	110	Open	0.00	0.00	0.00	0.00
P-652 J-227 TCV-16-In 0.5 600 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-653 J-363 TCV-16-Out 0.5 600 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-656 J-331 J-202 420.0 450 Ductile Iron 110 Open 84.53 0.38 0.90 0.53			PMP-N.Mohara-5-Ou	5.0						0.00		
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P-656 J-331 J-202 420.0 450 Ductile Iron 110 Open 84.53 0.38 0.90 0.53										_		
							110	Open Open	_			
<u> </u>									_			
	P-65/	J-1/U	J-331	1,010.0	450	Ductile Iron	110	Open	84.53	0.90	0.90	U.53

Pipe Report Rough- Current Discharge Headloss Friction Velocity Start Node End Node Length Diameter Material Link Labe Slone ness Status (m/km) (m/s)(l/s) (m) (mm) С (m) 0.02 0.05 89.0 300 Ductile Iron 110 Open J.28 0.00 -658 J-193 J-332 3.28 0.00 0.02 0.05 300 Ductile Iron 110 Open 61.0 P-659 J-195 J-332 110 Open 243.64 0.23 45.72 3.45 300 Ductile Iron PMP-Khu-1-In 5.0 P-660 J-353 110 Open 771.95 3.45 243.64 3.86 50 PMP-Khu-1-Out J-352 300 Ductile Iron P-662 0.45 1.90 110 Open 730.93 5.63 700 Ductile Iron PSV-Dmy1-in 80.0 -664 J-352 0.23 45.72 3.45 110 Open 243.64 PMP-Khu-2-In 5.0 300 Ductile Iron P-665 J-353 243.64 3.86 771.95 3.45 110 Open -666 PMP-Khu-2-Ou J-352 5.0 300 Ductile Iron 0.23 45.72 3.45 110 Open 243.64 50 300 Ductile Iron PMP-Khu-3-In J-353 P-667 243.64 3.86 771.95 3.45 110 Open 5.0 300 Ductile Iron PMP-Khu-3-Ou J-352 -668 0.00 0.00 0.00 5.0 300 Ductile Iron 110 Open 0.00 MP-Khu-4-In J-353 P-669 0.00 0.00 0.00 J-35<u>2</u> 5.0 300 Ductile Iron 110 Open 0.00 PMP-Khu-4-Out P-670 1,000 Ductile Iron 1,640,99 0.02 2.09 5.0 110 Open 4.43 J-364 P-672 T-Khulshi-gr 1.66 50.0 1.15 900 Ductile Iron 110 Open 730.93 0.08 J-353 P-673 J-364 110 Open 3.20 1.64 1.042.90 0.00 PSV-Dmy3-Out 0.5 900 Ductile Iron T-Khulshi-g P-682 6.66 34.95 0.07 1.11 10.0 200 PVC 130 Open J-255 P-683 J-262 1,460.0 300 Ductile Iron 110 Open 83.34 9.17 6.28 1.18 P-692 J-340 J-94 110 Open 1 46 0.53 37.78 1.45 1,005.0 300 Ductile Iron P-693 J-368 J-105 110 Open 1.04 0.66 46.91 2.17 480.0 300 Ductile Iron P-694 .1-106 J-368 0.00 600 Ductile Iron 110 Open 0.00 0.00 0.00 5.0 P-697 J-369 TCV-15-Out 233.44 0.03 1.44 0.83 600 Ductile Iron 110 Open 20.0 -698 J-44 J-369 233.44 0.11 42.24 3.30 300 Ductile Iron 110 Open J-369 TCV-4-lt 2.5 -699 110 Open 233.44 0.11 42.24 3.30 2.5 300 Ductile Iron TCV-4-Out J-52 P-700 110 Open 0.00 0.00 0.00 0,00 250 Ductile Iron 50 J-362 P-701 PMP-Pat-3-In 0.00 0.00 0,00 110 Open 0.00 3.0 250 Ductile Iron P-702 J-350 PMP-Pat-3-Out 0.00 0.00 0.00 0,00 110 Open PMP-Pat-N3-In J-3<u>62</u> 5.0 400 Ductile Iron P-703 0.00 0.00 0.00 400 Ductile Iron 110 Open 0.00 PMP-Pat-N3-Out 5.0 P-704 J-351 0.53 16.77 1.00 1.71 200 PVC J-370 585.0 130lOpen P-70<u>7</u> J-46 0.04 0.47 0.27 130 Open 8.39 P-708 J-371 J-45 85.0 200 PVC 8.39 0.21 0.47 0.27 P-709 450.0 200 PVC 130 Open J-370 J-371 600 Asbestos Co 110 Open 512.37 4.05 6.19 1.81 J-336 J-372 654.0 P-710 0.42 2.15 1.02 289.33 600 Asbestos Ce 196.0 110|Open P-7<u>11</u> J-147 J-372 0.12 23.42 3,72 110 Open 1.052.31 Γ-Mohara 5.0 600 Ductile Iron J-361-Mohara P-714 27.10 4.03 0.27 10.0 600 Ductile Iron 110 Open 1.138.75 J-373 T-Mohara P-715 1.052.31 0.12 23.42 3.72 600 Ductile Iron 110 Open T-New Mohara 5.0 P-716 J-332-New Mohara 1.042.90 2.07 800 Ductile Iron 0.065.67 10.0 110 Open J-374 P-717 T-New Mohara 3 20 1.64 33 26 10,400.0 900 Ductile Iron 110 Open 1 042 90 J-331-New Mohara P-2000T1 J-354 1.64 110 Open 1,042.90 14.21 3.20 4,445.0 900 Ductile Iron P-2000T2 J-354 J - 3651.64 110 Open 1,042,90 0.64 3.20 200.0 900 Ductile Iron P-2000T3 J-365 PSV-Dmy3-In 0.82 300 Ductile Iron 58.17 0.03 3.23 10.0 110 Open P-2001-1 PRV-1-In J-4 110 Open 300 Ductile Iron 58 17 0.03 3.23 0.82 P-2001-2 10.0 PRV-1-Out J-65 110 Open 432.13 0.07 4.51 1.53 15.0 600 Asbestos Ce P-2002 J-336 J-335 223.03 0.18 18.33 2.32 350 Ductile Iron 110 Open 10.0 J-372 J-328 P-2003 350 Ductile Iron 110 Open 135.33 2.55 7.27 1.41 350.0 P-2004 J-328 J-81 110 Open 133.49 4.25 7.09 1.39 350 Ductile Iron J-349 600.0 P-2005 J-81 110 Open 5.43 9.05 1.44 101.51 600.0 300 Ductile Iron P-2006 J-349 J-348 79.73 1.04 5.79 1 13 110 Open .i-87 180.0 300 Ductile Iron P-2007 J-85 0.19 9.51 1.48 110 Open 104.27 300 Ductile Iron J-343 20.0 J-145 -2008 6.49 5.50 1.00 31.52 J-348 1 180 0 200 PVC 130 Open J-343 -2009 97.47 5.04 8,40 1.38 110 Open 300 Ductile Iron J-348 J-347 600.0 P-2010 1.26 61.92 3.88 6.47 600.0 250 PVC 130lOpen J-347 J-346 P-2011 9.94 0.24 0.22 0.20 1,100.0 250 PVC 130 Open J-345 J-346 2012 22.89 0.86 1.03 0.47 840.0 250 PVC 130 Open J-345 J-166 -2013 2.57 8.70 1.48 72.65 J-165 J-166 295.0 250 PVC 130 Open P-2014 9.37 12.67 1.90 740.0 350 Ductile Iron 110 Open 182.65 J-1<u>65</u> P-2015 J - 1540.26 12.93 1.92 184.69 20.0 350 Ductile Iron 110 Open j-1<u>54</u> P-2016 J-142 1.49 0.14 6.96 20.0 400 Ductile Iron 110 Open 187.81 J-156 P-2017 J-170 0.60 0.36 300 Ductile Iron 110 Open 42 19 1.78 200.0 J-179 P-2018 T-ADC Hill 130 Open 42.41 4.47 3.21 0.86 1,390.0 250 PVC P-2019 J-94 J-96 130 Open 1.66 1.53 0.50 15.80 1,080.0 200 PVC P-2020 J-102 J-103 130 Open 35.43 1.33 6.83 1,13 195.0 200 PVC P-2021 J-105 J~101 27,63 1.46 1 45 0.56 1,005.0 250 PVQ 130 Open J-368 J-105 P-2022 130 Open 34.30 1.04 2.17 0.70 250 PVC 480.0 J-106 J-368 P-2023 130 Open 40.98 1,39 3.01 0.83 250 PVC J-107 J-106 460.0 P-2024 3.87 3.03 0.79 110 Open 56.15 1 280.0 300 Ductile Iron J-107 P-2025 J-115 3.28 0.83 58.61 3.26 300 Ductile Iron 110 Open J-115 995.0 P-2026 J-338 83.34 0.09 6.28 1.18 110 Open J-340 15.0 300 Ductile Iron P-2027 J-339 2.37 0.96 188.87 2.63 P-2028 J-338 J-3<u>39</u> 1 108.0 500 Ductile Iron 110|Open 0.09 5.80 1.56 306.09 500 Ductile Iron 110 Open 15.0J-337 J-338 P-2029 380.58 3.19 3,57 1.35 895 0 600 Ductile Iron 110|Open J-330 J-337 P-2030 0.93 4.66 1.71 110 Open 659.46 200.0 700 Ductile Iron T-Khulshi-e J-44 P-2031 0.99 70.03 1.96 4.55 J-46 430.0 300 Ductile Iron 110 Open J-48 P-2032 3.14 0.85 41.87 0.06 250 PVC 130 Open J-375 20.0 P-2033 J-46 41.87 0.85 1.20 0.70 250 Ductile Iron 110 Open 4.27 280.0 J-368 P-2034 J-375 2.58 0.67 130 Open 200 PVC 20.93 270.0 P-2035 J = 366J-367 110 Open 0.34 230.0 ,000 Ductile Iron 910.06 1.49 1.16

800 Ductile Iron

1.175.0

110 Open

622.06

2.56

2.18

1.24

P-2036

P-2037

J-364

J-355

J-355

J-356

					<u>Report</u>						
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-		Discharge	Headloss		Velocity
				Ι, ,		ness	Status		i ,	Slope	l
			(m)	(mm)		С		(l/s)	(m)	(m/km)	(m/s)
P-2038	J-43	J-356	5.0		Ductile Iron		Open	118.08	0.06	11.97	1.67
P-2039	J-356	J-314	280.0		Ductile Iron	110	Open	740.14	0.28	1.01	0.94
P-2040	J-314	J-315	270.0		Ductile Iron	110		740.14	0.27	1.02	0.94
P-2041	J-315	J-316	360,0		Ductile Iron	110		740.14	0.37	1.02	0.94
P-2042	J-316	J-317	390.0		Ductile Iron		Open	719.21	0.63	1.61	1.13
P-2043	J-317	J-24	520.0		Ductile Iron	110		698.28	0.79	1.52	1.10
P-2044	J −24	J-248	1,000.0		Ductile Iron			562.46	1.81	1.81	1.12
P-2045	J− 248	J-247	700.0		Ductile Iron	110		543.19	1.19	1.70	
P-2046	J-247	J-244	90.0		Ductile Iron	110		270.44	0.17	1.90	
P-2047	J-244	J-266	960.0	500		110		223.06	3.10	3.23	1.14
P-2048	J-266	J-267	340.0		Ductile Iron	110		188.74	0.81	2.37	0.96
P-2049	J-267	J-268	600.0		Ductile Iron		Орел	181.86	1.33	2.21	0.93
P-2050	J-268	J-360	430.0		PVC	130		61.36	2.74	6.36	1.25
P-2051	J-360	J-361	340.0		PVC	130		23,86	1.12	3.29	
P-2052	J-247	J-250	490.0		Ductile fron	110		221.52	1.56	3.19	
P-2053	J-250	J-263	210.0	450	Ductile Iron	110	Open	182.60	0.78	3.72	
P-2054	J-263	J-259	600.0	450	Ductile Iron	110	Open	159.94	1.75	2.91	1.01
P-2055	J-259	J-319	420.0	350	Ductile Iron	110		104.81	1.90	4.53	1.09
P-2056	J-319	J-320	500.0		Ductile Iron	110	Open	64.95	1.98	3.96	
P-2057	J-320	J-321	620.0		PVC		Open	17.22	1.12		0.55
P-2058	TCV-2-In	J-255	178.0		PVC	130		5.64	0.04	0.23	
P-2059	J-255	J-256	325.0		PVC	130		23.14	1.01	3.11	
P-2060-1	J-227	PSV-Dmy4-In	300.0	600	Ductile Iron	110		499.04	1.77	5.89	
P-2060-2	PSV-Dmy4-Out	T-Patenga	0.5	600	Ductile Iron	110		499.04	0.00	5.89	
P-2061	J-351	J-281	400.0	800	Ductile Iron	110		649.14	0.94		
P-2062	J-281	J-285	1,430.0	700	Ductile Iron	110		620.50	5.95	4.16	
P-2063	J-285	J-287	1,705.0	400		110		108.34	4.29	2.51	
P-2064	J-287	J-288	535.0		Ductile Iron	110		78.83	1.43		
P-2065	J-288	J-289	745.0	300		110		54.92	2.16		
P-2066	J-285	J-296	1,590.0	600	Ductile Iron	110		298.36	3.62	2.27	
P-2067	J-296	J-306	700.0	300			Open	85,93	4.66		
P-2068	J~296	J-300	700.0	500	Ductile Iron	110		216.62	2.14	3.06	
P-2069	J-300	J-301	810.0	500	Ductile Iron	110		201.27	2.16		
P-2070	J-301	J-302	810.0	450	Ductile Iron	110		156.92	2.28	2.81	0.99
P-2071	J-302	J-297	435.0	450	Ductile Iron		Open	152.10	1.15	2.65	
P-2072	J-297	J- <u>29</u> 8	975.0	450		110		129.20	1.91	1.96	
P-2073	J-298	J-299	405.0	200	PVC	130		32.36	2.34	5.78	
P-2074	J-298	J-327	1,170.0	350		110		55.79	1.65	1.41	0.58
P-2075	J-327	J-323	750.0	200	PVC	130		12.06	0.70		
P-2076	J-292	J-323	1,170.0	250	PVC	130		31.67	2.19		
P-2077	T-Battali Hill	J-15	450.0	800		110		1,305,01	3.87	8.59	
P-2078	J-15	J-17	1,220.0	600	Ductile Iron		Open	451.57	5.97	4.90	
P-2079	J-17	J-225	845.0	350	Ductile Iron	110		109.86	4.18	4.95	
P-2080	J-17	J-18	80.0	700	Ductile Iron	110		622.26	0.33		
P-2081	J-18	J-234	650.0	700	Ductile Iron	110		528.74	2.01	3.09	
P-2082	J-234	J-233	585.0		Ductile Iron	110		352.61	1.81	3.10	
P-2083	J-233	J-230	65.0		Ductile Iron	110		311.24	0.16		
P-2084	J-230	J-341	500.0	300	Ductile Iron	110		89.23	3.57	7.13	
P-2085	J-230	J-229	890.0				Open	143.88	2.13	2.40	0.90
P-2086	J-239	J-359	200.0	200	PVC	130	Open	21.70	0.55	2.76	0.69

Detailed Report for Tank: T-Mohara

Note: The input data may have been modified since the last calculation was performed. The calculated results may be outdated.

Scenario Summary			
Label	Base		
Demand Alternative	Base-Average Daily		
Physical Alternative	Base-Physical		
Initial Settings Alternative	Base-Initial Settings		
Operational Alternative	Base-Operational		
Age Alternative	Base-Age Alternative		
Constituent Alternative	Base-Constituent		
Trace Alternative	Base-Trace Alternative		
Fire Flow Alternative	Base-Fire Flow		
Calibration Summary			
Demand	<none></none>	Roughness	
Geometric Summary			
x	777.38 m	Base Elevation	2.00
Υ	797.55 m	Zone	Zone-1
Connecting Pipes			
P-714			
P-715			
Operating Range Summary			
Maximum Elevation	5.33 m	Maximum Level	3.33
Initial Elevation	3,50 m	Initial Level	1.50
Minimum Elevation	2.45 m	Minimum Level	0.45
Storage Summary			
Туре	Constant Area	Cross Section	Circular
Tank Diameter	2,332.00 m	Average Area	4,271,171.3
Inactive Volume	0.00 m ³	Total Active Volume	12,300,972.79
Total Storage Capacity	12,300,972.79 m³		

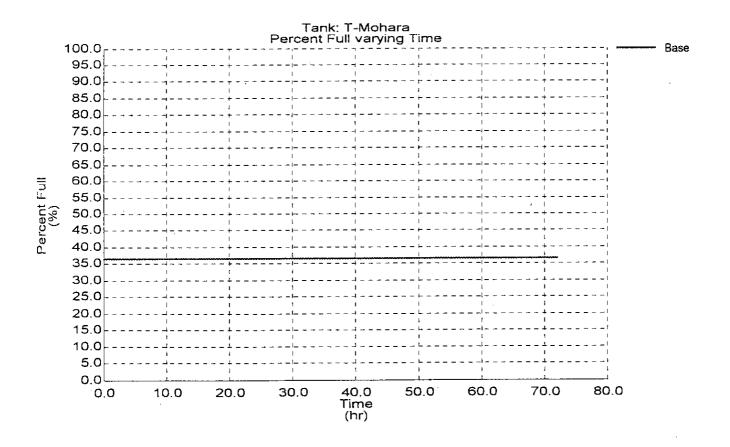
			Calcu	ılated Resu	ılts Summa	ary			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (i/s)	Status
0.00 hr	N/A	3.50	1.50	14.67	36,5	4,484,729.78	127.55	N/A	Filling
1.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,196.60	132.23	N/A	Filling
2.00 hr	N/A	3.50	1,50	14.68	36.5	4,485,680.80	137.40	N/A	Filling
3.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,183.63	142.66	N/A	Filling
4.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,705.07	148.27	N/A	Filling
5.00 hr	N/A	3,50	1.50	14.68	36.5	4,487,242.6€	150.97	N/A	Filling
6.00 hr	N/A	3,50	1.50	14.68	36.5	4,487,780.25	N/A	58.44	Draining
7.00 hr	N/A	3.50	1.50	14.68	36.5	4,487,561.74	N/A	67.84	Draining
8,00 hr	N/A	3.50	1.50	14.68	36.5	4,487,304.74	N/A	78.81	Draining
9.00 hr	N/A	3.50	1.50	14.68	36.5	4,487,012.98	N/A	86.44	Draining
10.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,695.14	N/A	90.19	Draining
11.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,367.37	N/A	91.77	Draining
12.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,039.61	N/A	89.76	Draining
13,00 hr	N/A	3.50	1.50	14.68	36.5	4,485,718.05	N/A	88.37	Draining
14.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,402.69	N/A	86.23	Draining

Detailed Report for Tank: T-Mohara

			Calcu	ilated Resu	ilts Summ	ary			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (1/s)	Tank Outflow (I/s)	Status
15.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,094.79	N/A	84.26	Draining
16.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,788.13	N/A	86.06	Draining
17.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,470.29	N/A	92.03	Draining
18.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,131.35	N/A	98.05	Draining
19.00 hr	N/A	3.50	1.50	14.67	36.5	4,483,773.79	N/A	100.34	Draining
20.00 hr	N/A	3.50	1.50	14.67	36.4	4,483,419.95	N/A	96.35	Draining
21.00 hr	N/A	3.50	1.50	14.67	36.4	4,483,089.70	N/A	86.43	Draining
22.00 hr	N/A	3.50	1.50	14.67	36.4	4,482,799.18	N/A	73.91	Draining
23.00 hr	N/A	3,50	1.50	14.67	36.4	4,482,549.63	139.21		Filling
24.00 hr	N/A	3,50	1.50	14.67	36.4	4,483,057.42	143.74	N/A	Filling
25.00 hr	N/A	3,50	1.50	14.67	36.4	4,483,580.11	148.15		Filling
26.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,121.42	152.85		Filling
27.00 hr	N/A	3,50	1.50	14.67	36.5	4,484,678.87	157.61		Filling
28.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,253.71	162.88		Filling
29.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,859.58	257.65	•	Filling
30.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,589.61	N/A		Draining
31.00 hr	N/A	3,50	1.50	14.68	36.5	4,486,418.28	N/A		Draining
32.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,207.21	N/A		Draining
33.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,953.94	N/A		Draining
34.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,679.5€	N/A		Draining
35.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,392.76	N/A		Draining
36.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,105.97	N/A		Draining
37.00 hr	N/A	3.50	1.50	14.67	36 .5	4,484,824.13	N/A		Draining
38,00 hr	N/A	3.50	1.50	14.67	36.5	4,484,547.27	N/A		Draining
39.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,276.61	N/A	74.48	Draining
40.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,004.72	N/A		Draining
41.00 hr	N/A	3.50	1.50	14.67	36.5	4,483,719.16	N/A	83.24	Draining
42.00 hr	N/A	3.50	1.50	14.67	36.4	4,483,408.77	N/A		Draining
43.00 hr	N/A	3.50	1.50	14.67	36.4	4,483,082.25	N/A		Draining
44.00 hr	N/A	3.50	1.50	14.67	36.4	4,482,758.21	N/A		Draining
45.00 hr	N/A	3.50	1.50	14.67	36.4	4,482,457.75	N/A		Draining
46.00 hr	N/A	3,50	1.50	14,67	36.4	4,482,197.03	N/A		Draining
47.00 hr	N/A	3.50	1.50	14.67	36.4	4,481,978.52	144.87		Filling
48.00 hr	N/A	3.50	1.50	14.67	36.4	4,482,507.41	149.42		Filling
49.00 hr	N/A	3.50	1.50	14.67	36.4	4,483,052.45	153.80		Filling
50.00 hr	N/A	3.50	1.50	14,67	36.4	4,483,612.35	158.47		Filling
51.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,189.71	163.21		Filling
52.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,906.08	266.17		Filling
53.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,857.10	262.16		Filling
54.00 hr	N/A	3,50	1,50	14.68	36.5	4,486,760.94	N/A		Draining
55.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,671.55	N/A		Draining
56.00 hr	N/A	3.50	1.50	14,68	36.5	4,486,464.21	N/A		Draining
57.00 hr	N/A	3,50	1.50	14.68	36.5	4,486,220.87	N/A		Draining
58.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,952.70	N/A		Draining
59.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,670.87	N/A		Draining
60.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,387.80	N/A		Draining
61.00 hr	N/A	3,50	1.50	14.67	36,5	4,485,110.93	N/A		Draining
62.00 hr	N/A	3.50	1.50	14.67	36,5	4,484,837.79	N/A		Draining
63.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,570.8€	N/A		Draining
64.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,303.93	N/A		Draining
65.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,024.58	N/A		Draining
66.00 hr	N/A	3,50	1.50	14.67	36.5	4,483,724.13	N/A	87.80	Draining
67.00 hr	N/A	3.50	1.50	14.67	36.4	4,483,403.81	N/A		Draining
68.00 hr	N/A	3,50	1.50	14.67	36.4	4,483,082.25	N/A		Draining
69.00 hr	N/A	3.50	1.50	14.67	36.4	4,482,783.04	N/A	76.77	Draining

Detailed Report for Tank: T-Mohara

Calculated Results Summary										
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Intlow (I/s)	Tank Outflow (I/s)	Status	
70.00 hr	N/A	3,50	1.50	14.67	36.4	4,482,518.59	N/A	65.07	Draining	
71, 00 hr	N/A	3.50	1.50	14.67	36.4	4,482,295.11	145.13	N/A	Filling	
72.00 hr	N/A	3.50	1.50	14.67	36.4	4,482,822.77	149.54	N/A	Filling	



Detailed Report for Tank: T-New Mohara

The input data may have been modified since the last calculation was performed. The calculated results may be outdated.

Scenario Summary			
Label	Base		
Demand Alternative	Base-Average Daily		
Physical Alternative	Base-Physical		
Initial Settings Alternative	Base-Initial Settings		
Operational Alternative	Base-Operational		
Age Alternative	Base-Age Alternative		
Constituent Alternative	Base-Constituent		
Trace Alternative	Base-Trace Alternative		
Fire Flow Alternative	Base-Fire Flow		
Calibration Summary			
Demand	<none></none>	Roughness	
Geometric Summary			
X	739.95 m	Base Elevation	2.00
Υ	772.56 m	Zone	Zone-1
Connecting Pipes			
P-716			
P-717			
Operating Range Summary			
Maximum Elevation	5.33 m	Maximum Level	3.33
Initial Elevation	3.50 m	Initial Level	1.50
Minimum Elevation	2.45 m	Minimum Level	0.45
Storage Summary	W		<u></u>
Туре	Constant Area	Cross Section	Circular
Tank Diameter	2,332.00 m	Average Area	4,271,171.3
Inactive Volume	0.00 m³	Total Active Volume	12,300,972.79
Total Storage Capacity	12,300,972.79 m³		

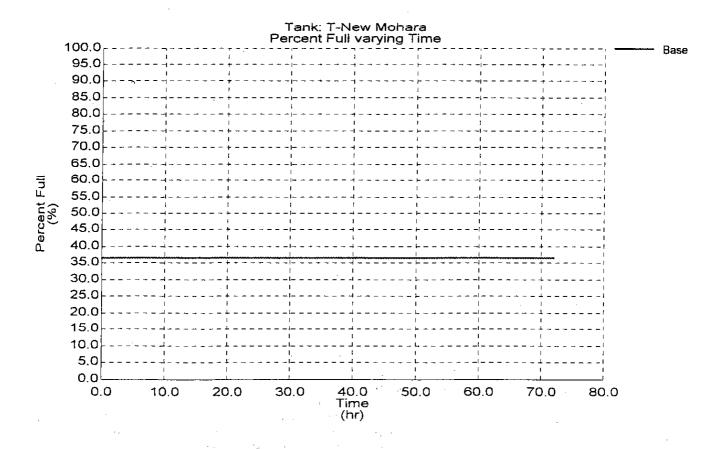
			Calcu	lated Resu	its Summa	nry			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (1/s)	Tank Outflow (I/s)	Status
0.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,729.78	9.41	N/A	Filling
1.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,760.82	9.41	N/A	Filling
2.00 hr	N/A	3,50	1.50	14.67	36.5	4,484,791.85	9.41	N/A	Filling
3.00 hr	N/A	3,50	1.50	14.67	36.5	4,484,822.89	9.41	N/A	Filling
4.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,853.93	9.41	N/A	Filling
5,00 hr	N/A	3,50	1.50	14.67	36.5	4,484,884.97	9.41	N/A	Filling
6,00 hr	N/A	3.50	1.50	14.67	36.5	4,484,917.25	9.41	N/A	Filling
7.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,948.29	9.41	N/A	Filling
8.00 hr	N/A	3.50	1.50	14.67	36.5	4,484,980.57	9.41	N/A	Filling
9.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,012.85	9.41	N/A	Filling
10.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,043.89	9.41	N/A	Filling
11.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,074.93	9.41	N/A	Filling
12.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,105.97	9.41	N/A	Filling
13.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,137.00	9,41	N/A	Filling
14.00 hr	N/A	3.50	1,50	14.67	36.5	4,485,168.04	9.41	N/A	Filling

Detailed Report for Tank: T-New Mohara

Time Constituent Calculated Tank Pressure Percent Current Tank Tank Status											
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Levei (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (Vs)	Status		
15.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,200.32	9.41	N/A	Filling		
16.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,232.60	9.41	N/A	Filling		
17.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,263.64	9.41	N/A	Filling		
18.00 hr	N/A	3,50	1.50	14.67	36,5	4,485,294.68	9.41	N/A	Filling		
19.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,325.72	9.41	N/A	Filling		
20.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,356.7€	9.41	N/A	Filling		
21.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,387.80	9.41	N/A	Filling		
22.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,418.83	9.41	N/A	Filling		
23.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,449.87	9.40	N/A	Filling		
24.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,480.91	9.40	N/A	Filling		
25.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,511.95	9.40	N/A	Filling		
26.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,542.99	9.40	N/A	Filling		
27.00 hr	N/A	3,50	1.50	14.67	36.5	4,485,574.03	9.40		Filling		
28.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,605.07	9.40		Filling		
29.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,636.10	9.40		Filling		
30.00 hr	N/A	3.50	1.50	14.67	36.5	4,485,668.38	9.40		Filling		
31.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,699.42	9.40		Filling		
32.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,730.46	9.40		Filling		
33.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,762.74	9.40		Filling		
34.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,793.78	9.40		Filling		
						• •					
35.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,824.82	9.40		Filling		
36.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,855.86	9.40		Filling		
37.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,886.90	9.40		Filling		
38.00 hr	N/A	3,50	1.50	14.68	36.5	4,485,917.93	9.40		Filling		
39.00 hr	N/A	3.50	1.50	14.68	36.5	4,485,950.22	9.40		Filling		
40.00 hr	N/A	3,50	1.50	14.68	36.5	4,485,982.50	9.40		Filling		
41.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,013.53	9.40		Filling		
42.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,044.57	9.40	N/A	Filling		
43.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,075.61	9.40	N/A	Filling		
44.00 hr	N/A	3,50	1.50	14.68	36.5	4,486,106.65	9.40	N/A	Filling		
45.00 hr	N/A	3,50	1.50	14.68	36.5	4,486,138.93	9.40	N/A	Filling		
46.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,169.97	9,40	N/A	Filling		
47.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,202.25	9.40	N/A	Filling		
48.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,233.29	9.40	N/A	Filling		
49.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,264.33	9.40	N/A	Filling		
50.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,295.3€	9.40	N/A	Filling		
51.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,326.40	9.40		Filling		
52.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,358.68	9.40		Filling		
53.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,389.72	9.40		Filling		
54.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,422.00	9.40		Filling		
55.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,453.04	9.40		Filling		
56.00 hr	N/A	3.50	1.50	14.68	36,5	4,486,484.08	9.40		Filling		
57.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,515.12	9.40		Filling		
					36.5	4,486,515.12 4,486,546.1€			_		
58.00 hr	N/A	3.50	1.50	14.68			9.40		Filling		
59.00 hr	N/A	3.50	1.50	14.68	36.5 36.5	4,486,577.19	9.40		Filling		
60.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,608.23	9.40		Filling		
31.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,639.27	9.40		Filling		
62.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,670.31	9.40		Filling		
63.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,702.55	9.40		Filling		
64.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,734.87	9.40	N/A	Filling		
55. 00 hr	N/A	3.50	1.50	14.68	36.5	4,486,767.15	9.40	N/A	Filling		
56.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,798.19	9.40	N/A	Filling		
57.00 hr	N/A	3,50	1,50	14.68	36.5	4,486,829.23	9.40	. N/A	Filling		
68.00 hr	N/A	3,50	1.50	14.68	36.5	4,486,860.27	9.40	N/A	Filling		
59.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,892.55	9.40	N/A	Filling		

Detailed Report for Tank: T-New Mohara

Calculated Results Summary										
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m²)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status	
70.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,923.59	9.40	N/A	Filling	
71.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,955.87	9.40	N/A	Filling	
72.00 hr	N/A	3.50	1.50	14.68	36.5	4,486,986.90	9.40	N/A	Filling	



Detailed Report for Tank: T-Kalurghat

Note:

The input data may have been modified since the last calculation was performed. The calculated results may be outdated.

Scenario Summary			
Labei	Base	 -	
Demand Alternative	Base-Average Daily		
Physical Alternative	Base-Physical		
Initial Settings Alternative	Base-Initial Settings		
Operational Alternative	Base-Operational		
Age Alternative	Base-Age Alternative		
Constituent Alternative	Base-Constituent		
Trace Alternative	Base-Trace Alternative	•	•
Fire Flow Alternative	Base-Fire Flow		
Calibration Summary			
Demand	<none></none>	Roughness	
Geometric Summary			
×	647.63 m	Base Elevation	0.00
Y	476,00 m	Zone	Zone-1
Connecting Pipes			
P-587			
P-588			
P-590			
P-592			
P-594			•
P-596			
P-611			
Operating Range Summary			
Maximum Elevation	3,33 m	Maximum Level	3.33
Initial Elevation	1.50 m	Initial Level	1.50
Minimum Elevation	0.46 m	Minimum Level	0.46
Storage Summary			
Туре	Constant Area		
Cross Section	Non-Circular	Average Area	4,410.0
Inactive Volume	0,00 m ³	Total Active Volume	12,656.70
Total Storage Capacity	12,656.70 m ³		

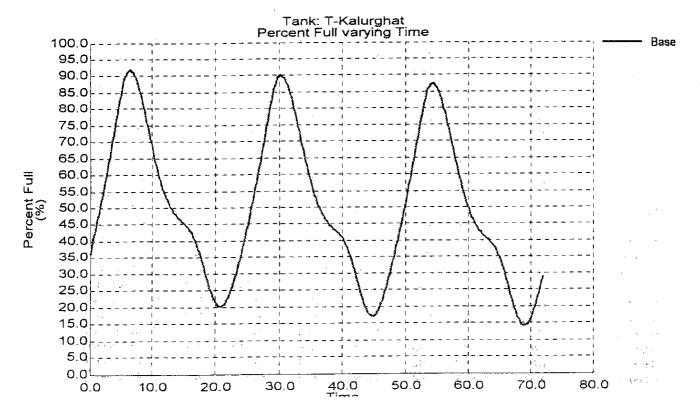
			Calcula	ated Result	s Summar	у			
Tìme	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Levei (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
0.00 hr	N/A	1.50	1.50	14.67	36.2	4,586.40	289.99	N/A	Filling
1.00 hr	N/A	1.75	1.75	17.07	44.8	5,667.05	310.37	N/A	Filling
2.00 hr	N/A	2.01	2.01	19.65	54.0	6,832.08	335.85	N/A	Filling
3,00 hr	N/A	2.29	2.29	22.41	63.8	8,072.56	354.96	N/A	Filling
4.00 hr	N/A	2.59	2.59	25.35	74.3	9,398.10	380.44	N/A	Filling
5.00 hr	N/A	2.88	2.88	28.21	84.4	10,687.18	319.29	N/A	Filling
6.00 hr	N/A	3.07	3.07	30.01	90.9	11,499.10	49.23	N/A	Filling
7.00 hr	N/A	3.07	3.07	30.01	90.9	11,499.52	N/A	124.02	Draining
8.00 hr	N/A	2.93	2.93	28.64	86.0	10,884.27	N/A	265.42	Draining
9.00 hr	N/A	2.70	2.70	26.43	78.1	9,888.94	N/A	318.92	Draining

Detailed Report for Tank: T-Kalurghat

			,	ated Result					
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
10.00 hr	N/A	2.45	2,45	23.92	69.2	8,755.48	N/A	301.09	Draining
11.00 hr	N/A	2.21	2.21	21.63	61.0	7,724.98	N/A	259.05	Draining
12.00 hr	N/A	2.03	2.03	19.85	54.7	6,919.52	N/A	173,70	Draining
13.00 hr	N/A	1.91	1.91	18.64	50.4	6,376.51	N/A	124.02	Draining
14.00 hr	Ņ/A	1.82	1.82	17.80	47.4	5,997.67	N/A	79.44	Draining
15. 0 0 hr	N/A	1,76	1.76	17.26	45,5	5,753.90	N/A	52.68	Draining
16.00 hr	. N/A	1.71	1.71	16.72	43,5	5,511.38	N/A	90.90	Draining
17.00 hr	N/A	1.61	1.61	15.72	40.0	5,056.96	N/A	180.07	Draining
18.00 hr	N/A	1.44	1.44	14.05	34.0	4,305.97	N/A	247.59	Draining
19.00 hr	N/A	1.23	1.23	12.07	27.0	3,414.96	N/A	237.40	Draining
20.00 hr	N/A	1.08	1.08	10.60	21.7	2,749.28	N/A	131.66	Draining
21.00 hr	N/A	1.04	1.04	10.19	20.3	2,565.12	23.75	N/A	Filling
22.00 hr	N/A	1.12	1.12	10.97	23.0	2,916.60	165.15	N/A	Filling
23.00 hr	N/A	1.29	1.29	12.60	28.9	3,652.39	236.49	N/A	Filling
24.00 hr	N/A	1.50	1,50	14.70	36.3	4,597.29	283.62	N/A	Filling
25.00 hr	N/A	1.75	1.75	17.08	44.8	5,669.69	310.37	N/A	Filling
26.00 hr	N/A	2.01	2.01	19.66	54.0	6,834.72	335.85	. N/A	Filling
27.00 hr	N/A	2.29	2.29	22.41	63.8	8,073.36	354.96		Filling
28.00 hr	N/A	2.59	2.59	25,34	74.2	9,395.23	380.44		Filling
29.00 hr	N/A	2.88	2.88	28.16	84.3	10,665.97	319.29		Filling
30.00 hr	N/A	3.03	3.03	29.68	89,7	11,352.09	49.23		Filling
31.00 hr	N/A	3.00	3.00	29.37	88.6	11,210.35	N/A		Draining
32.00 hr	N/A	2.85	2.85	27.83	83.1	10,518.07	N/A		Draining
33.00 hr	N/A	2.60	2.60	25.46	74.7	9,448.88	N/A		Draining
34.00 hr	N/A	2.35	2.35	22.97	65.8	8,326.43	N/A		Draining
	N/A	2.12	2.12	20.72	57.8	7,314.28	N/A		Draining
35.00 hr	N/A	1.94	1.94	19.00	51.7	6,537.62	N/A		Draining
36.00 hr 37.00 hr	N/A	1.82	1.82	17.84	47.5	6,014.78	N/A		Draining
38.00 hr	N/A	. 1.74	1.74	17.05	44.7	5,656.13	N/A		Draining
39.00 hr	N/A	1.69	1.69	16.53	42.8	5,421.53	N/A		Draining
	N/A	1.63	1.63	15.95	40.8	5,162.39	N/A		Draining
40.00 hr		1.52	1.52	14.88	37.0	4,679.00	N/A		Draining
41.00 hr	N/A					3,900,50			Draining
42.00 hr	N/A	1.34	1.34	13.15	30.8	•	N/A		
13.00 hr	N/A	1.14	1.14	11.19	23.8	3,014.92	N/A		Draining
44.00 hr	N/A	0.99	0.99	9.71	18.6	2,349.24	N/A		Draining
45,00 hr	N/A	0.95	0.95	9.31	17.1	2,166.69	23.75		Filling
46.00 hr	N/A	1.03	1.03	10.09	19.9	2,518.17	165.15		Filling
17.00 hr	N/A	1.20	1.20	11.72	25.7	3,253.95	236.49		Filling
48.00 hr	N/A	1.41	1.41	13,82	33.2	4,200.46	283.62		Filling
19,00 hr	N/A	1.66	1.66	16.20	41.7	5,272.86	310.37		Filling
50.00 hr	N/A	1.92	1.92	18.78	50.9	6,437.89	335.85		Filling
51,00 hr	N/A	2.20	2.20	21.53	60.7	7,678.36	354.96		Filling
52.00 hr	N/A	2.50	2.50	24.47	71.1	9,003.90	380.44		Filling
53,00 hr	N/A	2.79	2.79	27.29	81.2	10,272.80	319.29		Filling
54,00 hr	N/A	2.95	2.95	28.87	86.8	10,988.83	49,23		Filling
55,00 hr	N/A	2.93	2.93	28.66	86,1	10,892.07	N/A		Draining
56.00 hr	N/A	2.79	2.79	27.24	81.0	10,253.90	N/A	265,42	Draining
7.00 hr	N/A	2.56	2.56	25.04	73.2	9,260.87	N/A	318.92	Draining
58.00 hr	N/A	2.31	2.31	22.57	64.4	8,147.60	N/A	301.09	Draining
59,00 hr	N/A	2.07	2.07	20.29	56.3	7,119.85	N/A	259.05	Draining
50.00 hr	N/A	1.89	1.89	18.49	49.8	6,309.25	N/A	173.70	Draining
61.00 hr	N/A	1.76	1.76	17.25	45.4	5,749.73	N/A	124.02	Draining
52.00 hr	N/A	1.68	1.68	16.41	42.4	5,369.06	N/A		Draining
3.00 hr	N/A	1.62	1.62	15.85	40.4	5,117.95	N/A		Draining
64.00 hr	N/A	1,56	1.56	15.29	38.4	4,862.48	N/A		Draining

Detailed Report for Tank: T-Kalurghat

			Calcula	ated Result	ts Summai	у			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank inflow (l/s)	Tank Outflow (l/s)	Status
65.00 hr	N/A	1.46	1.46	14.29	34.9	4,414.19	N/A	180.07	Draining
66.00 hr	N/A	1.30	1.30	12.70	29.2	3,697.14	N/A	247.59	Draining
67.00 hr	N/A	1.10	1.10	10.76	22.3	2,821.64	N/A	237.40	Draining
68.00 hr	N/A	0.93	0.93	9.14	16.5	2,090.84	N/A	131.66	Draining
69.00 hr	N/A	0.87	0.87	8.52	14.3	1,812.26	23.75	N/A	Filling
70.00 hr	N/A	0.92	0.92	9.04	16.2	2,049.10	165.15	N/A	Filling
71.00 hr	N/A	1.08	1.08	10.54	21.5	2,724.56	236.49	N/A	Filling
72.00 hr	N/A	1,28	1.28	12.55	28.7	3,628.88	283.62	N/A	Filling



7.4-3-26

Detailed Report for Tank: T-Khuishi-gr

Note

The input data may have been modified since the last calculation was performed. The calculated results may be outdated.

Scenario Summary			
Label	Base		
Demand Alternative	Base-Average Daily		
Physical Alternative	Base-Physical		
Initial Settings Alternative	Base-Initial Settings		
Operational Alternative	Base-Operational		
Age Alternative	Base-Age Alternative		
Constituent Alternative	Base-Constituent		
Trace Alternative	Base-Trace Alternative		
Fire Flow Alternative	Base-Fire Flow		
Calibration Summary			
Demand	<none></none>	Roughness	
Geometric Summary			
x	345.72 m	Base Elevation	28.00
Υ	364.81 m	Zone	Zone-1
Connecting Pipes		•	
			
P-682			
P-672	•		
Operating Range Summary			
Maximum Elevation	35.00 m	Maximum Level	7.00
Initial Elevation	30.50 m	Initial Level	2.50
Minimum Elevation	28.00 m	Minimum Level	0.00
Storage Summary			
Туре	Constant Area		
Cross Section	Non-Circular	Average Area	2,800:0
Inactive Volume	0.00 m ³	Total Active Volume	19,600.00
Total Storage Capacity	19,600.00 m³		

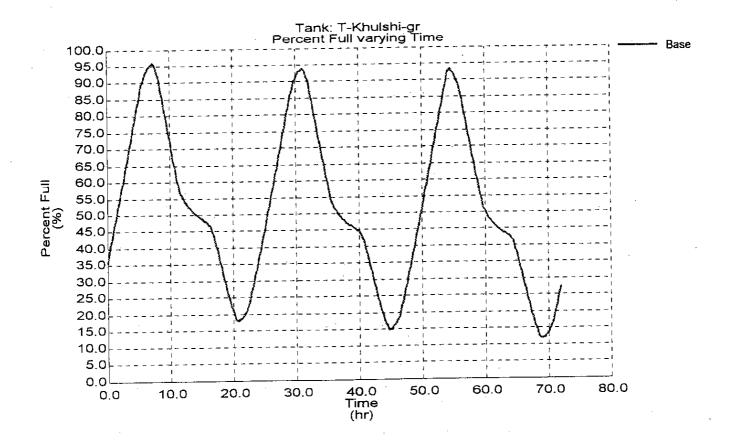
		•	Calcula	ated Result	ts Summai	ry '				
Time	Constituent (mg/l)		Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status	
0.00 hr	N/A	30.50	2,50	24.45	35.7	7,000.00	496.62	N/A	Filling	
1.00 hr	N/A	31.15	3.15	30.79	45.0	8,814.34	510.16	N/A	Filling	
2.00 hr	N/A	31.82	3.82	37.34	54.5	10,688.16	528.70	N/A	Filling	
3.00 hr	N/A	32.50	4.50	44.06	64.4	12,613.23	541.25	N/A	Filling	
4.00 hr	N/A	33.21	5.21	51.00	74.5	14,599.22	559.98	N/A	Filling	
5.00 hr	· N/A	33.90	5.90	57.75	84.3	16,530.25	496.16	N/A	Filling	
6.00 hr	N/A	· 34.42	6.42	62.84	91.8	17,986.73	233.72	N/A	Filling	
7,00 hr	N/A	34.66	6:66	65,17	95.2	18,655.71	66,10	N/A	Filling	
8.00 hr	N/A	34.51	6.51	63.64	92.9	18,215.93	· N/A	317.53	Draining	
9.00 hr	N/A	33.83	5.83	57.05	83.3	16,329.87	Lot N/A	598.08	Draining	
10.00 hr	N/A	33.08	5.08	49.66	72.5	14,216.00	N/A	563.56	Draining	
11.00 hr	N/A	32.38	4,38	42.84	62.6	12,262.87	√. N/A	506,46	Draining	5.
12.00 hr	N/A	31.88	3.88	37.96	55.4	10,867.17	· N/A	188.56	Draining	
13.00 hr	N/A	31.67	3.67	35.89	52.4	10,272.75	'∞ N/A	137.35	Draining	:
14.00 hr	N/A	ું 31.52 ^ક ે	3:52	34.40	50.2	9,847.16	N/A	92:02	Draining	

Detailed Report for Tank: T-Khulshi-gr

			Calcula	ted Result	s Summa	ry			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (i/s)	Tank Outflow (I/s)	Status
15.00 hr	N/A	31,41	3.41	33,40	48.8	9,559.11	N/A	64.61	Draining
16.00 hr	N/A	31,31	3.31	32.41	47.3	9,278.30	N/A	99.42	Draining
17.00 hr	N/A	31.04	3.04	29.78	43.5	8,522.97	N/A	396.27	Draining
18.00 hr	N/A	30.51	2.51	24.52	35.8	7,018.86	N/A	445.97	Draining
19.00 hr	N/A	29.94	1.94	19.00	27.7	5,437.87	N/A	419.84	Draining
20.00 hr	N/A	29.47	1.47	14.43	21.1	4,129.06	N/A	304.47	Draining
21.00 hr	N/A	29.28	1.28	12.48	18.2	3,572.30	49.63	N/A	Filling
22.00 hr	N/A	29.43	1.43	13.98	20.4	4,002.20	181.79	N/A	Filling
23.00 hr	. N/A	29.88	1.88	18.40	26.9	5,267.18	451.39	N/A	Filling
24.00 hr	N/A	30.49	2.49	24.36	35.6	6,973.31	490.61	N/A	Filling
25.00 hr	N/A	31.14	3.14	30.67	44.8	8,780.11	510.27	N/A	Filling
26.00 hr	N/A	31.81	3,81	- 37.22	54.4	10,654.31	528.80	N/A	Filling
27.00 hr	N/A	32.49	4.49	43,94	64.2	12,578.00	541.35	N/A	Filling
28.00 hr	N/A	33.20	5.20	50.87	74.3	14,560.87	560.09		Filling
29.00 hr	N/A	33,88	5.88	57.55	84,1	16,474.63	496.31	N/A	Filling
30,00 hr	N/A	34.36	6.36	62.22	90.9	17,811.50	234.17	N/A	Filling
31.00 hr	N/A	34.55	6,55	64.09	93.6	18,346.62	66.90		Filling
32.00 hr	N/A	34.31	6.31	61.73	90.2	17,670.40	N/A	314.69	Draining
33.00 hr	N/A	33.58	5.58	54.61	79.8	15,631.06	N/A	592.40	Draining
34.00 hr	N/A	32.84	4.84	47.33	69.1	13,548.20	N/A	557.88	Draining
35.00 hr	N/A	32.15	4.15	40.64	59.4	11,632.99	N/A	500.86	Draining
36.00 hr	N/A	31.65	3,65	35.70	52.1	10,219.10	N/A	184.58	Draining
37.00 hr	N/A	31.45	3.45	33,74	49.3	9,658.10	,N/A	133.52	Draining
38.00 hr	N/A	31.31	3.31	32.37	47.3	9,265.37	N/A	88.36	Draining
39,00 hr	N/A	31.21	3.21	31.44	45.9	8,999.13	N/A	61.05	Draining
40.00 hr	N/A	31.11	3.11	30.45	44.5	8,715.26	N/A	95.82	Draining
.º41.00 hr	N/A	30.81	2.81	27.52	40.2	7,878.07	N/A	389.95	Draining
42.00 hr	N/A	30.28	2.28	22.26	32.5	6,370.80	N/A	439.35	Draining
43.00 hr	N/A	29.72	1,72	16.83	24.6	4,818.28	N/A	413.20	Draining
44.00 hr	N/A	29.26	1.26	12.34	18.0	3,533.19	N/A	297.81	Draining
45,00 hr	N/A	29.05	1.05	10.26	15.0	2,936.31	54.46	N/A	Filling
46.00 hr	N/A	29.21	1.21	11.82	17.3	3,383.13	186.42	N/A	Filling
47.00 hr	N/A	29.64	1.64	16.08	23.5	4,601.55	453.78	N/A	Filling
48.00 hr	N/A	30.26	2.26	22.07	32.2	6,317.57	492.85	N/A	Filling
49.00 hr.	N/A	30.90	2.90	28.41	41.5	8,132.21	512.38	N/A	Filling
50.00 hr	N/A	31.58	3.58	34.98	51.1	10,013.77	530.78	N/A	Filling
51.00 hr	N/A	32.27	4.27	41.73	60.9	11,946.16	543.21	N/A	Filling
52.00 hr	N/A	32.98	4.98	48.70	71.1	13,938.89	561.84	N/A	Filling
53.00 hr	N/A	33.66	5.66	55.40	80.9	15,857.19	497,97	N/A	Filling
54.00 hr	N/A	34.35	6.35	62.07	90.7	17,767.82	485.40	N/A	Filling
55.00 hr	N/A	34.45	6.45	63.14	92.2	18,073.49	N/A	181.42	Draining
56.00 hr	N/A	34.16	6.16	60.24	88.0	17,242.12	. N/A	312.44	Draining
57.00 hr	N/A	33.46	5.46	53.45	78.1	15,299.09	N/A		Draining
58.00 hr	N/A	32.73	4.73	46.24	67.5	13,234.73	N/A	555.18	Draining
59.00 hr	N/A	32.04	4.04	39,53	57.7	11,314.64	N/A	497.99	Draining
60.00 hr	N/A	31.52	3.52	34.44	50.3	9,857.08	N/A		Draining
61.00 hr	N/A	31.31	3.31	32.38	47.3	9,269.52	N/A		Draining
62.00 hr	N/A	31.17	3.17	30.97	45.2	8,864.79	N/A		Draining
63.00 hr	N/A	31.07	3.07	30.02	43.8	8,592.10	N/A		Draining
64.00 hr	N/A	30.97		29.07	42.5	8,321.05	N/A		Draining
65.00 hr	N/A	30.63	2.63	25.73	37.6	7,363.97	N/A		Draining
66.00 hr	N/A	30.12	2.12	20.73	30.3	5,932.88	N/A		Draining
67.00 hr	- N/A	29.57	1.57	15.39	22.5	4,406.18	N/A		Draining
67.00 hr	N/A	29.10	1.10	10.75	15.7	3,076.09	N/A		Draining
					12.0	2,344.94	59.05		Filling
69.00 hr	N/A	28.84	0.84	8.19	12.0	Z,344.94	J9.UJ	IV/A	, ming

Detailed Report for Tank: T-Khulshi-gr

_			Calcula	ated Result	ts Summai	У			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
70,00 hr	N/A	28.96	0.96	9.43	13.8	2,699.75	191.65	N/A	Filling
71.00 hr	N/A	29.30	1.30	12.76	18.6	3,652.51	457.28	N/A	Filling
72.00 hr	N/A	29.91	1.91	18.66	27.2	5,340.68	496.26	N/A	Filling



Detailed Report for Tank: T-Khulshi-el

Note:
The input data may have been modified since the last calculation was performed.
The calculated results may be outdated.

Scenario Summary	·		
Label	Base		
Demand Alternative	Base-Average Daily		
Physical Alternative	Base-Physical		
Initial Settings Alternative	Base-Initial Settings	• •	
Operational Alternative	Base-Operational		
Age Alternative	Base-Age Alternative		•
Constituent Alternative	Base-Constituent		
Trace Alternative	Base-Trace Alternative		
Fire Flow Alternative	Base-Fire Flow		
Calibration Summary		,	
Demand	<none></none>	Roughness	
Geometric Summary			
X	384.96 m	Base Elevation	29.00
Υ	364.39 m	Zone	Zone-KhH
Connecting Pipes			
P-623-2			
P-2031			
Operating Range Summary			
Maximum Elevation	52.00 m	Maximum Level	23.00
Initial Elevation	49.50 m	Initial Level	20.50
Minimum Elevation	45.00 m	Minimum Level	16.00
Storage Summary	. *********		*
Туре	Constant Area	Cross Section	Circular
Tank Diameter	18.00 m	Average Area	254.5
Inactive Volume	0.00 m³	Total Active Volume	1,781.28
Total Storage Capacity	1,781.28 m²		

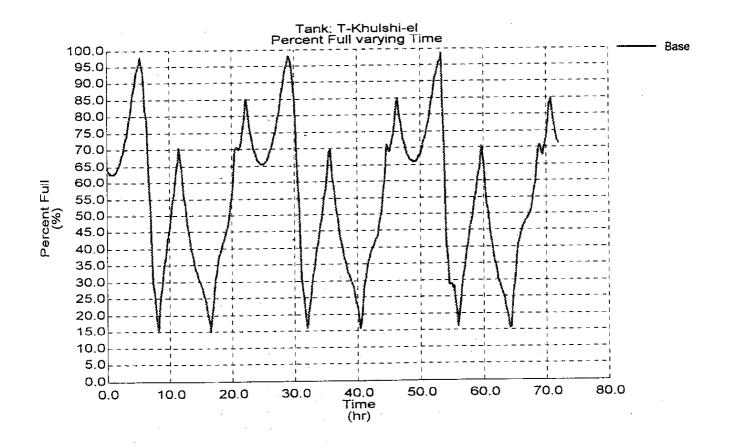
			Calcula	ted Result	s Summar	у			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
0.00 hr	N/A	49.50	20.50	200.53	64.3	1,145.11	N/A	17.56	Draining
1.00 hr	N/A	49.39	20.39	199.41	62.7	1,115.98	1.36	N/A	Filling
2.00 hr	N/A	49.58	20.58	201.29.	65.4	1,165.02	26.10	N/A	Filling
3.00 hr	N/A	50.06	21.06	206.03	72.3	1,288.27	45.10	N/A	Filling
4.00 hr	N/A	50.86	21.86	213.83	83.7	1,491.12	68.45	N/A	Filling
5.00 hr	N/A	51.64	22.64	221.46	94.8	1,689.53	31.29	N/A	Filling
6.00 hr	N/A	51.19	22.19	217.02	88.4	1,574.16	N/A	152.30	Draining
7.00 hr	N/A	48.56	19.56	191.35	50.9	906.28	N/A	270.82	Draining
8.00 hr	N/A	46.30	17.30	169.24	18.6	331.28	N/A	120.72	Draining
9.00 hr	N/A	47.26	18.26	178.58	32.2	574.16	71,48	N/A	Filling
10.00 hr	N/A	48.21	19.21	187.90	45.8	816.48	66.42	N/A	Filling
11.00 hr	N/A	49.20	20.20	197.57	60.0	1,068.12	78.74	N/A	Filling
12.00 hr	N/A	49.46	20.46	200.12	63.7	1,134.43	N/A	98.22	Draining
13.00 hr	N/A	48.27	19.27	188.51	46.7	832.44	N/A	67.37	Draining
14.00 hr	N/A	47.49	18.49	180.83	35.5	632.76	N/A	39.06	Draining

Detailed Report for Tank: T-Khulshi-el

Time	Constituent Calculated Tank Pressure Percent Current Tank Tank										
ı ime	(mg/l)	Hydraulic Grade (m)	Level (m)	Pressure (kPa)	Percent Full (%)	Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (l/s)	Status		
15.00 hr	N/A	47.04	18.04	176.45	29.1	518.72	N/A		Draining		
16.00 hr	N/A	46.57	17.57	171.87	22.4	399.53	N/A	50.60	Draining		
17.00 hr	N/A	46.60	17.60	172.13	22.8	406.34	98.98	N/A	Filling		
18.00 hr	N/A	47.64	18.64	182.29	37.6	670.57	37.19	N/A	Filling		
19.00 hr	N/A	48.07	19.07	186.56	43.9	781.72	27.88	N/A	Filling		
20.00 hr	N/A	48.90	19.90	194.71	55.8	993.63	87.14	N/A	Filling		
21.00 hr	N/A	49.90	20.90	204.49	70.1	1,248.05	N/A	10.29	Draining		
22.00 hr	N/A	50.50	21.50	210.27	78.5	1,398.65	91.08	N/A	Filling		
23.00 hr	N/A	50.30	21.30	208.37	75.7	1,349.11	N/A	60.70	Draining		
24.00 hr	N/A	49.73	20.73	202.76	67.5	1,203.12	N/A	22.07	Draining		
25.00 hr	N/A	49.59	20.59	201.37	65.5	1,167.02	1.25	N/A	Filling		
26.00 hr	N/A	49.78	20.78	203.24	68.2	1,215.67	26.00	N/A	Filling		
27,00 hr	N/A	50.26	21.26	207.92	75.1	1,337.27	43.86	N/A	Filling		
28.00 hr	N/A	51.04	22.04	215.57	86.2	1,536.35	67.21		Filling		
29.00 hr	N/A	51.76	22.76	222.63	96.6	1,720.14	31.14		Filling		
30.00 hŕ	N/A	50.96	21.96	214.82	85.2	1,516.78	N/A		Draining		
31.00 hr	N/A	47.94	18.94	185.25	42.0	747.75	N/A		Draining		
32.00 hr	N/A	46.11	17.11	167.34	15.8	281.85	N/A		Draining		
33.00 hr	N/A	47.18	18.18	177.88	31.2	555.97	65.80		Filling		
34.00 hr	N/A	48.09	19.09	186.70	44.1	785.47	60.73		Filling		
35.00 hr	N/A	49.05	20.05	196.08	57.8	1,029,48	73.14		Filling		
36.00 hr	N/A	49.56	20.56	201.15	65.2	1,161.31	N/A		Draining		
37.00 hr	N/A	48.38	19.38	189.56	48.3	859.68	N/A		Draining		
38.00 hr	N/A	47.60	18.60	181.91	37.1	660.79	N/A		Draining		
39.00 hr	N/A	47.12	18.12	177.28	30.3	540.19	N/A		Draining		
40.00 hr	N/A	46.56	17.56	171.76	22.3	396.77	N/A		Draining		
41.00 hr	N/A	46.72	17.72	171.70	24.6	437.92	92.66		Filling		
42.00 hr	N/A	47.60	18.60	181.96	37.2	662.15	30.57		Filling		
43.00 hr	N/A	47.97	18.97	185.53	42.4	754.84	21.24		-		
44.00 hr	N/A	48.71	19.71	192.75	52.9	942,81	80.47		Filling		
45.00 hr	N/A	49.87	20.87			•			Filling		
46.00 hr	N/A	50.39		204.12	69.5	1,238.57	N/A		Draining		
47.00 hr	N/A		21.39	209.25	77.0	1,372.04	86.45		Filling		
		50.38	21.38	209.14	76.9	1,369.25	N/A		Draining		
48.00 hr	N/A	49.78	20.78	203.25	68.3	1,215.98	N/A		Draining		
49.00 hr	N/A	49.61	20.61	201.56	65.8	1,172.04	0.35		Filling		
50,00 hr	N/A	49.77	20.77	203.18	68.2	1,214.18	24.02		Filling		
51.00 hr	N/A	50.23	21.23	207.64	74.7	1,330.12	43.15		Filling		
52.00 hr	N/A	51.00	22.00	215.19	85.7	1,526.46	66.60		Filling		
53.00 hr	N/A :		22.69	221:99	95.6	1,703.54	29.47		Filling		
54.00 hr	N/A	48.84	19.84	194.02	54.8	975.90	N/A		Draining		
55.00 hr	N/A	47.01	18.01	176.17	28.7	511.39	N/A		Draining		
56.00 hr	N/A	46.14	17.14	167,63	16.2	289.19	N/A		Draining		
57.00 hr	N/A	47.34	18.34	179.44	33.5	596.51	63.07		Filling		
58,00 hr	N/A	48.24	19.24	188.23	46.3	825.16	58.04		Filling		
59.00 hr	N/A	49.13	20.13	196.90	59.0	1,050.66	70.27	N/A	Filling		
60.00 hr	N/A	49.60	20.60	201.49	65.7	1,170.03	N/A	104.44	Draining		
61.00 hr	N/A	48.28	19.28	188.58	46.8	834.37	N/A	73.65	Draining		
62.00 hr	N/A	47.40	18.40	180.00	34.3	611.11	N/A	45.28	Draining		
63.00 hr	N/A	46.85	17.85	174.57	26.4	469.69	N/A	28.46	Draining		
64.00 hr	N/A	46.26	17.26	168.79	17.9	319.51	N/A	56.75	Draining		
65.00 hr	N/A	47.11	18.11	177.14	30.1	536.65	87.54	N/A	Filling		
66.00 hr	N/A	48.08	19.08	186.64	44.0	783.92	26.02		Filling		
67.00 hr	N/A	48.40	19.40	189.77	48.6	865,13	16.76		Filling		
68.00 hr	N/A	48.89	19.89	194.52	55.5	988.68	75.28		Filling		
59.00 hr	N/A	49.95	20.95	204.95	70.7	1,260.16	N/A		Draining		

Detailed Report for Tank: T-Khulshi-el

Calculated Results Summary											
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status		
70.00 hr	N/A	50.10	21.10	206.36	72.8	1,296.91	81.22	N/A	Filling		
71.00 hr	N/A	50.74	21.74	212.64	82.0	1,460.15	N/A	66.58	Draining		
72.00 hr	N/A	49.97	20.97	205.17	71.1	1,265.96	N/A	27.72	Draining		



Detailed Report for Tank: T-Battali Hill

Note: The input data may have been modified since the last calculation was performed. The calculated results may be outdated.

Scenario Summary		·	
Label	Base		
Demand Alternative	Base-Average Daily		
Physical Alternative	Base-Physical		
Initial Settings Alternative	Base-Initial Settings		
Operational Alternative	Base-Operational		
Age Alternative	Base-Age Alternative		
Constituent Alternative	Base-Constituent		
Trace Alternative	Base-Trace Alternative		
Fire Flow Alternative	Base-Fire Flow		
Calibration Summary	*-		
Demand	<none></none>	Roughness	
			_
Geometric Summary		·	
X	376.50 m	Base Elevation	42.00
Y	299.46 m	Zone	Zone-1
Connecting Pipes			
P-584			
P-13			
P-2077			
Operating Range Summary			
Maximum Elevation	51.50 m	Maximum Level	9.50
Initial Elevation	43.00 m	Initial Level	1.00
Minimum Elevation	42.70 m	Minimum Level	0.70
Storage Summary			
Туре	Constant Area		
Cross Section	Non-Circular	Average Area	1,450.0
inactive Volume	151.00 m³	Total Active Volume	12,760.00

battali hill top tank

Total Storage Capacity

			Calcula	ated Result	ts Summai	ry			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
0.00 hr	N/A	43.00	1.00	9,78	4.5	586.00	367.39	N/A	Filling
1.00 hr	N/A	43.94	1.94	18.97	15.1	1,947.46	386.78	N/A	Filling
2.00 hr	N/A	44.94	2.94	28.72	26.3	3,393.97	412.98	N/A	Filling
3.00 hr	N/A	45.98	3.98	38.95	38.0	4,910.05	427.60	N/A	Filling
4.00 hr	N/A	47.07	5.07	49.58	50.2	6,484.89	441.66	N/A	Filling
5.00 hr	N/A	48.06	6.06	59.32	61.4	7,928.50	333.77	N/A	Filling
6,00 hr	N/A	48.54	6.54	63.99	66.8	8,621.14	127.49	N/A	Filling
7.00 hr	N/A	48.68	6.68	65.34	68.3	8,821.48	N/A	120.66	Draining
8.00 hr	N/A	48.22	6.22	60.87	63.2	8,158.87	N/A	310,25	Draining
9.00 hr	N/A	47.47	5.47	53.50	54.7	7,066.02	N/A	328,87	Draining
10.00 hr	N/A	46.69	4.69	45.88	46.0	5,936.46	N/A	284.68	Draining
11.00 hr	N/A	46.04	4.04	39.53	38.7	4,996.32	N/A	222,20	Draining
12.00 hr	N/A	45,59	3.59	35.09	33.6	4,338.15	N/A	128.49	Draining

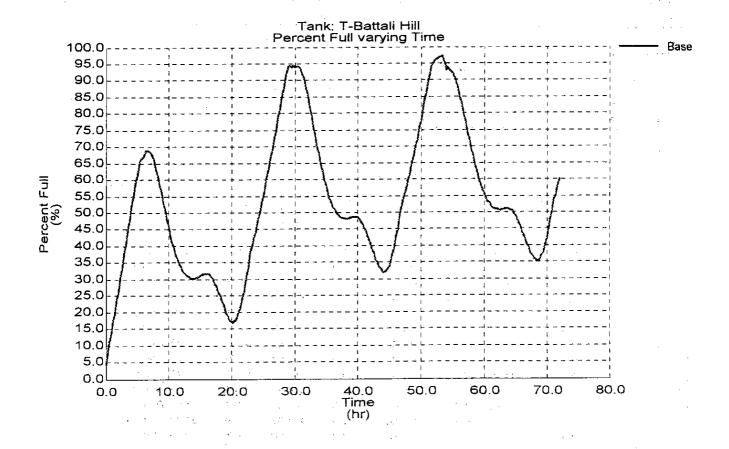
12,911.00 m³

Detailed Report for Tank: T-Battali Hill

Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (i/s)	Status	·
13.00 hr	N/A	45.35	3.35	32.80	31.0	3,998:62	N/A		Draining	
14.00 hr	N/A	45.29	3.29	32.15	30.2	3,902.04	10.49		Filling	: ·
15.00 hr	N/A	45.35	3.35	32.81	31.0	3,999.38	47.99	N/A	Filling	
16.00 hr	N/A	45.42	3.42	33.45	31.7	4,094.61	N/A	7.62	Draining	
17.00 hr	N/A	45.28	3.28	32.05	30.1	3,886.24	N/A	124,17	Draining	
18.00 hr	N/A	44.91	2.91	28.47	26.0	3,355.94	N/A	179.42	Draining	
19.00 hr	N/A	44.44	2.44	23,85	20.7	2,671.70	N/A	205,45	Draining	
20.00 hr	N/A	44.12	2.12	20.74	17.1	2,210.76	N/A	49.70	Draining	
21.00 hr	N/A	44.28	2.28	22.33	19.0	2,446.77	171.06	N/A	Filling	
22.00 hr	N/A	44.96	2.96	28.99	26.6	3,433.37	364.98	N/A	Filling	
23,00 hr	N/A	45.99	3.99	39.05	38.1	4,923.86	255.19	N/A	Filling	,
24.00 hr	N/A	46.70	4,70	46.01	46.1	5,956.93	308.35	N/A	Filling	
25.00 hr	N/A	47.51	5.51	53.86	55.1	7,119.22	331,60	N/A	Filling	
26.00 hr	N/A	48.36	6.36	62.23	64.8	8,360.17	353.15		Filling	
27.00 hr	N/A	49.25	7.25	70.95	74.8	9,652.48	365.65		Filling	
27.00 nr 28.00 hr	N/A N/A	50.19	8.19	80.11	85.3	11,010.87	387.32		Filling	
			9.00	88.06	94.4	12,189.14	16.55		Filling	
29.00 hr	N/A	51.00 50.04			9 4.4 93.7	12,103.14	90.24		Filling	
30.00 hr	N/A	50.94	8.94 8.85	87.48 86.62	93.7 92.8	12,103.64	90.24 N/A		Draining	
31.00 hr	N/A	50.85			85.9	11,092.10	N/A		Draining	
32.00 hr	N/A	50.25	8.25	80.66		•			Draining	
33.00 hr	N/A	49,33	7.33	71.72	75.7	9,767.74	N/A		-	
34.00 hr	N/A	48.47	6.47	63.29	66.0	8,518.00	N/A		Draining	
35,00 hr	N/A	47.76	5.76	56.30	57.9	7,481.23	N/A		Draining	
36.00 hr	, N/A .		5.25	51.32	52.2	6,742.65	N/A		Draining	
37.00 hr	N/A	46.98	4.98	48.71	49.2	6,357.14	N/A	•	Draining	
38.00 hr	N/A	46.88	4.88	47.76	48.1	6,215.92	N/A		Draining	
39.00 hr	N/A	46.91	4.91	48.02	48.4	6,254.39	28.28		Filling	·
40.00 hr	N/A	46.91	4.91	48.03	48.5	6,256.10	N/A		Draining	
41.00 hr	N/A	46.69	4.69	45.90	46:0	5,939.82	N/A	145.67	Draining	
42.00 hr	N/A	46.26	4.26	41.65	41.1	5,310.17	N/A	198.18	Draining	
43.00 hr	N/A	45.78	3.78	36.99	35.8	4,618.86	N/A	176.90	Draining	1000
44.00 hr	· N/A	45.48	3.48	34.01	32.4	4,177.31	N/A	66.80	Draining	
45.00 hr	N/A	45.60	3.60	35.20	33.7	4,354.31	154.40	N/A	Filling	
46.00 hr	N/A	46.24	4.24	41,46	40.9	5,281.16	348.74	N/A	Filling	
47.00 hr	N/A	47.23	5.23	51.17	52.1	6,721.07	242.28	N/A	Filling	
48.00 hr	N/A	47.92	5.92	57.91	59.8	7,719.64	299.49		Filling	
49.00 hr	N/A	48.70	6.70	65.53	68.5	8,849.23	322.34		Filling.	
50.00 hr	N/A	49.53	7.53	73.67	77.9	•	343.70		Filling	
51.00 hr	N/A	50.40	8.40	82.18	87.7	11,317.14	356.11		Filling	
52.00 hr	N/A	51.08	9.08	88.78	95.2	12,296.72	96.80		Filling	
	N/A N/A	51.08	9.23	90.24	96.9	· · · · · · · · · · · · · · · · · · ·	16.55		Filling	
53.00 hr				86.81	93.0	12,003.88	116.10		Filling	
54,00 hr	N/A	50.87	8.87			11,853.68	N/A		Draining	
55,00 hr	N/A	50.77	8.77	85.80	91.8					
56.00 hr	N/A	50.28	8.28	80.96	86.3	11,136.70	/ N/A		Draining	
57.00 hr	N/A	49.52	7.52		77.7	10,036.34			Draining	
58.00 hr	N/A	48.73	6.73	65.80	68.9	8,890.44			Draining	
59.00 hr	N/A	48.04	6:04	59.11	61.2	7,897.56	N/A		Draining	
60.00 hr	N/A	47.54		54.22	55.6	7,173.80	N/A		Draining	
61.00 hr	N/A	47.25	5.25	51.34	52.3	6,746.00	/,: ·N/A		Draining	
62.00 hr	N/A	47.12	5.12	50.09	50.8	6,561.73	∆N/A	12.74	Draining	
63.00 hr	N/A	47.12	5.12	50.13	50.9	6,566.23	25.54	N/A	Filling	
64.00 hr	N/A	47.12			50.8	6,563.40	/- N/A	29.19	Draining	
65.00 hr	N/A	46.94	4.00	48.31	48.8	6,296.74		131.00	Draining	
66.00 hr	N/A	46.57		44.75	44.7	5,768.87			Draining	
	N/A	46.12	4.12		39.6	·	N/A		Draining	

Detailed Report for Tank: T-Battali Hill

Calculated Results Summary									
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
68.00 hr	N/A	45.80	3.80	37.15	36.0	4,642.31	·· N/A	58.83	Draining
69.00 hr	N/A	45,84	3.84	37.53	36.4	4,698.83	151,38	N/A	Filling
70.00 hr	N/A	46.36	4.36	42.62	42.2	5,453.27	347.23	N/A	Filling
71.00 hr	N/A	47.29	5.29	51.72	52.7	6,803.05	241.67	N/A	Filling
72.00 hr	N/A	47.93	5.93	58,05	60.0	7,740.86	303.41	N/A	Filling



Detailed Report for Tank: T-ADC Hill

Note:
The input data may have been modified since the last calculation was performed.
The calculated results may be outdated.

Scenario Summary		•	
Label	Base		
Demand Alternative	Base-Average Daily		
Physical Alternative	Base-Physical		
Initial Settings Alternative	Base-Initial Settings		
Operational Alternative	Base-Operational		
Age Alternative	Base-Age Alternative	•	
Constituent Alternative	Base-Constituent		
Trace Alternative	Base-Trace Alternative	,	
Fire Flow Atternative	Base-Fire Flow		
Calibration Summary			-
Demand	<none></none>	Roughness	
Geometric Summary			
X	519.65 m	Base Elevation	12.00
Υ	221.50 m	Zone	Zone-1
Connecting Pipes			
P-407			
P-2018			
P-185			
Operating Range Summary			
Maximum Elevation	38.50 m	Maximum Level	26.50
Initial Elevation	33.50 m	Initial Level	21,50
Minimum Elevation	33.50 m	Minimum Level	21.50
Storage Summary			* * * * * * * * * * * * * * * * * * *
Туре	Constant Area		
Cross Section	Non-Circular	Average Area	880.0
Inactive Volume	145,00 m³	Total Active Volume	4,400.00
Total Storage Capacity	4,545.00 m³		

adc hill top tank,

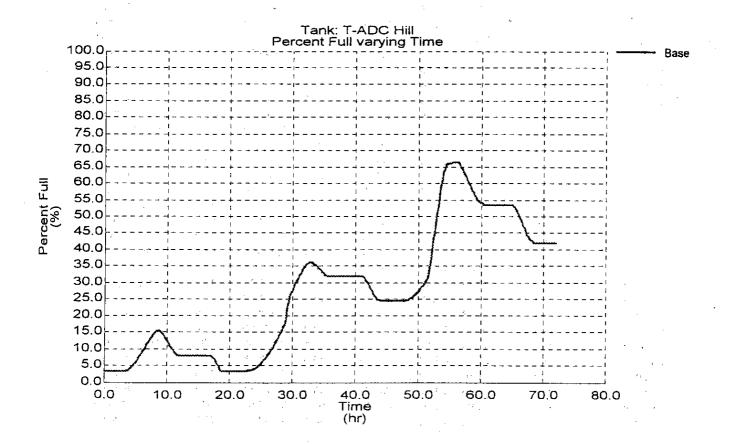
Calculated Results Summary									
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
0.00 hr	N/A	33.50	21.50	210.31	3.2	145.00	0.00	0.00	Empty
1.00 hr	N/A	33,50	21.50	210.31	3.2	145.00	0.00	0.00	Empty
2.00 hr	N/A	33,50	21.50	210.31	3.2	145.00	0.00	0.00	Empty
3.00 hr	N/A	33,50	21.50	210.31	3.2	145.00	2.64	N/A	Filling
4.00 hr	N/A	33.54	21.54	210.71	4.0	180.65	19.79	N/A	Filling
5.00 hr	N/A	33.64	21.64	211.70	5.9	270.39	31.36	N/A	Filling
6.00 hr	N/A	33.78	21.78	213.04	8.6	390.84	40.69	N/A	Filling
7.00 hr	N/A	33.95	21.95	214.67	11.8	536.97	37.99	N/A	Filling
8.00 hr	N/A	34.09	22.09	216.06	14.6	661.88	27.00	N/A	Filling
9.00 hr	N/A	34.11	22.11	216.31	15.1	684.85	N/A	25.93	Draining
10.00 hr	N/A	33.98	21.98	215.01	12.5	567.85	N/A	37.92	Draining
11.00 hr	N/A	33,83	21.83	213.50	9.5	431.97	N/A	34.30	Draining
12.00 hr	N/A	33.74	21.74	212.68	7.9	357.90	0.00	0.00	Steady

Detailed Report for Tank: T-ADC Hill

273	Calculated Results Summary Constituent Calculated Tank Pressure Percent Current Tank Tank 5										
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Storage Volume (m³)	inflow (I/s)	Outflow (I/s)	Status		
13.00 hr	N/A	33.74	21.74	212.68	7.9	357.90	0.00	0.00	Steady		
14.00 hr	N/A	33.74	21.74	212.68	7.9	357.90	0.00		Steady		
15.00 hr	N/A	33.74	21.74	212.68	7.9	357.90	0.00	0.00	Steady		
16.00 hr	N/A	33.74	21.74	212.68	7.9	357.90	0.00		Steady		
17.00 hr	N/A	33.74	21.74	212.68	7.9	357.90	N/A		Draining		
18.00 hr	N/A	33.64	21.64	211.65	5.8	265.58	N/A		Draining		
19.00 hr	N/A	33.50	21.50	210.31	3.2	145.00	0.00		Empty		
20.00 hr	N/A	33,50	21.50	210.31	3.2	145,00	0.00		Empty		
21.00 hr	N/A	33.50	21.50	210.31	3.2	145.00	0.00		Empty		
22.00 hr	N/A	33.50	21.50	210.31	3.2	145.00	0.00		Empty		
23.00 hr	N/A	33.51	21.51	210.45	3.5	157.49	1.26		Filling		
24.00 hr	N/A	33.54	21.54	210.70	4.0	179.80	13.36		Filling		
25.00 hr	N/A	33.61	21.61	211.41	5.4	243.79	24.13		Filling		
26.00 hr	N/A	33.73	21.73	212.53	7.6	344.70	33.72		Filling		
27.00 hr	N/A	33.88	21.88	214.02	10.5	478.69	42.30		Filling		
28.00 hr	N/A	34.07	22.07	215.84	14.1	642.57	50.28 185.12		Filling Filling		
29.00 hr	N/A	34.31	22.31	218.23	18.9	857.39	50.60		Filling		
30.00 hr	N/A	34.76	22.76	222.67	27.7	1,256.71 1,432,41	44.87		Filling		
31.00 hr	N/A	34.96	22.96	224.62 226.25	31.5 34.7	1,432.41	33.19		Filling		
32.00 hr	N/A	35.13	23.13	226.25	36.2	1,643.06	N/A		Draining		
33.00 hr	N/A	35,20 35,13	23.20	226.27	34.8	1,580.46	N/A		Draining		
34.00 hr	N/A	35.13	23.13	225.22	32.7	1 486 45	N/A		Draining		
35.00 hr	N/A	35.02 34.99	23.02 22.99	224.90	32.1	1,457.08	0.00		Steady		
36.00 hr	N/A N/A	34.99	22.99	224.90	32.1	1,457.08	0.00		Steady		
37.00 hr	N/A	34.99	22.99	224.90	32.1	1,457.08	0.00		Steady		
38.00 hr	N/A N/A	34.99	22.99	224.90	32.1	1,457.08	0.00		Steady		
39,00 hr 40.00 hr	N/A	34.99	22.99	224.90	32.1	1,457.08	0.00		Steady		
41.00 hr	N/A	34.99	22.99	224.90	32.1	1,457.08	N/A		Draining		
42.00 hr	N/A	34.88	22.88	223.83	30.0	1,361.63	N/A		Draining		
43.00 hr	N/A	34.69	22.69	221.99	26.3	1,195.32	N/A	45.43	Draining		
44.00 hr	N/A	34.60	22.60	221.08	24.5	1,114.10	0.00		Steady		
45.00 hr	N/A	34.60	22.60	221.08	24.5	1,114.10	0.00	0.00	Steady		
46.00 hr	N/A	34.60	22.60	221.08	24.5	1,114.10	0.00	0.00	Steady		
47.00 hr	N/A	34.60	22.60		24.5	1,115.08	0.00	0.00	Steady		
48.00 hr	N/A	34.61	22.61	221.13	24.6	1,118.58	6.26	N/A	Filling		
49.00 hr	N/A	34.65	22.65		25.5	1,158.58	17.95	N/A	Filling		
50.00 hr	N/A	34.74	22.74		27.2	1,238.33	28.17	N/A	Filling		
51.00 hr	N/A	34.87	22.87		29.8	1,353.10	37.20	N/A	Filling		
52.00 hr	N/A	35.23	23.23	227.27	36.8	1,670.36	181,29	N/A	Filling		
53.00 hr	N/A	35.96	23.96	234.36	50.8	2,308.88	172.01	N/A	Filling		
54.00 hr	N/A	36.62	24.62	240.87	63.7	2,894.02	11.29	N/A	Filling		
55.00 hr	N/A	36.75	24.75	242.09	66.1	3,003.92	4,99	N/A	Filling		
56.00 hr	N/A	36.76	24.76	242.18	66.3	3,012.37	N/A		Draining		
57.00 hr	N/A	36.66	24.66	241.18	64.3	2,922.13	N/A		Draining		
58.00 hr	N/A	36.45	24.45	239.17	60.3	2,741.11	N/A	52.46	Draining		
59.00 hr	N/A	36.25	24.25	237.20	56.4	2,564.28	N/A		Draining		
60.00 hr	N/A	36.13	24.13	236.02	54.1	2,458.27	N/A		Draining		
61.00 hr	N/A	36.10	24.10	235.77	53.6	2,435.06	0.00		Steady		
62.00 hr	N/A	36.10	24.10	235.77	53.6	2,435.06	0.00		Steady		
63.00 hr	N/A	36.10	24.10	235.77	53.6	2,435.06	0.00		Steady		
64.00 hr	N/A	36.10	24.10	235.77	53.6	2,435.06	0.00		Steady		
65,00 hr	N/A	36.09	24.09	235.66	53.4	2,425.44	N/A		Braining		
66.00 hr	N/A	35.95	23.95	234.31	50.7	2,303.63	N/A	57.68	Draining		
67.00 hr	N/A	35.72	23.72	232.01	. 46.1	2,097.16	N/A	57.15	Draining		

Detailed Report for Tank: T-ADC Hill

Calculated Results Summary									
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (Vs)	Tank Outflow (I/s)	Status
68.00 hr	N/A	35.54	23.54	230.27	42.7	1,940.79	N/A	12.02	Draining
69.00 hr	N/A	35.51	23.51	229.94	42.0	1,911.10°	0.00	0.00	Steady
70.00 hr	N/A	35,51	23.51	229.94	42.0	1,911.10	0.00	0.00	Steady
71.00 hr	, N/A	35.51	23.51	229.94	42.0	1,911.10	0.00	0.00	Steady
72.00 hr	N/A	35.51	23.51	229.94	42.0	1,911.10	0.00	0.00	Steady



Detailed Report for Tank: T-Patenga

Note:
The input data may have been modified since the last calculation was performed.
The calculated results may be outdated.

······································					
Scenario Summary					
Label	•	Base			
Demand Alternative	* *	Base-Average Daily			
Physical Alternative		Base-Physical			
Initial Settings Alternative		Base-Initial Settings			
Operational Alternative		Base-Operational	•		
Age Alternative		Base-Age Alternative		,	
Constituent Alternative		Base-Constituent			
Trace Alternative	1	Base-Trace Alternative			
Fire Flow Alternative	11 .	Base-Fire Flow			
Calibration Summary			· · · · · · · · · · · · · · · · · · ·	· 	
Demand		<none></none>	Roughness	·	
<u> </u>					
Geometric Summary	·····	•			
X		263.37 m	Base Elevation		1.00
Υ		45.58 m	Zone		Zone-Pa
	7				
Connecting Pipes				•	
P-638		· ·			1
P-2060-2				*	
P-622					•
				¢ ,	· ·
Operating Range Summary		No. of the second second		. •	
Maximum Elevation		7.00 m	Maximum Level		6.00
Initial Elevation		2.50 m	Initial Level		1.50
Minimum Elevation	14	1.00 m	Minimum Level		0.00
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**	· · ·			
Storage Summary				<u> </u>	
Туре	V	Constant Area			4
Cross Section		Non-Circular	Average Area		2,000.0
Inactive Volume		0.00 m ³	Total Active Volume		12,000.00
Total Storage Capacity		12,000.00 m ³			

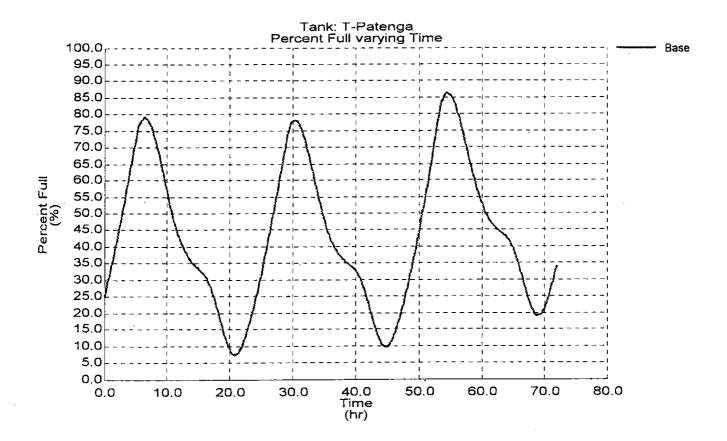
	ti And		Calcul	ated Resul	ts Summai	у			
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
0.00 hr	N/A	2.50	1.50	14.67	25.0	3,000.00	251.82	N/A	Filling
1.00 hr	N/A	2.98	1.98	19.32	32.9	3,950.21	276.10	N/A	Filling
2.00 hr	N/A	3.50	2.50	24.46	41.7	5,001.42	308,10	N/A	Filling
3.00 hr	N/A	4.07	3.07	30.08	51.2	6,149.13	331.67	N/A	Filling
4.00 hr	N/A	4.70	3.70	36.15	61.6	7,390.45	357.37	N/A	Filling
5.00 hr	N/A	5.30	4.30	42.08	71.7	8,604.34	302.03	N/A	Filling
6.00 hr	N/A	5.69	4.69	45.86	78.1	9,376.79	50.47	N/A	Filling
7.00 hr	N/A	5.70	4.70	45.95	78.3	9,394.48	N/A	111.34	Draining
8.00 hr	Ñ/A	5.42	4.42	43.21	73.6	8,835.39	N/A	244.27	Draining
9.00 hr	N/A	4.96	3.96	38.73	66.0	7,917.92	N/A	295.43	Draining
10.00 hr	N/A	4.43	3.43	33.58	57.2	6,865.61	N/A	280.44	Draining
11.00 hr	N/A	3.95	2.95	28.88	49.2	5,903.80	N/A	242.55	Draining
12.00 hr	N/A	3.57	2.57	25.17	42.9	5,146.77	N/A	164,63	Draining
13.00 hr	N/A	3.31	2.31	22.64	38.6	4,629.26	: N/A	119.22	Draining

Detailed Report for Tank: T-Patenga

				ted Result					
Tìme	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status
14.00 hr	N/A	3.13	2.13	20,85	35.5	4,263.04	N/A		Draining
5.00 hr	N/A	3.01	2.01	19.68	33.5	4,024.31	N/A	51.80	Draining
6,00 hr	N/A	2.89	1.89	18.53	31,6	3,788.86	N/A	87.45	Draining
7.00 hr	N/A	2.68	1.68	16.40	27.9	3,353.32	N/A	172.66	Draining
8.00 hr	N/A	2.32	1.32	12.87	21:9	2,631.65	N/A	238.78	Draining
9.00 hr	N/A	1,88	0.88	8.65	14.7	1,768.16	N/A	232.28	Draining
0.00 hr	N/A	1.55	0.55	5.41	9.2	1,106.91	N/A	134.42	Draining
1.00 hr	N/A	1.45	0.45	4.39	7.5	897.11	13.52	N/A	Filling
2.00 hr	N/A	1.60	0.60	5.88	10.0	1,201.77	151.56	N/A	Filling
3.00 hr	N/A	1.94	0.94	9.22	15.7	1,885.67	220.75	N/A	Filling
24,00 hr	N/A	2.38	1.38	13.54	23.1	2,769.01	265.79	N/A	Filling
5.00 hr	N/A	2.89	1.89	18.47	31.5	3,776.03	29 2.17	N/A	Filling
6,00 hr	N/A	3,44	2.44	23.85	40.6	4,876.55	318.75	N/A	Filling
7.00 hr	N/A	4.03		29.62	50.5	6,055.33	338.89	N/A	Filling
8.00 hr	N/A	4.66	3.66	35.81	61.0	7,322.47	365.96	N/A	Filling
9.00 hr	N/A	5.28	4.28	41.88	71.3	8,561.89	358.81	N/A	Filling
0.00 hr	N/A	5.67	4.67	45.64	77.8	9,331.42	61.79	N/A	Filling
11.00 hr	N/A	5,63	4.63	45.27	77.1	9,255.24	N/A	100.30	Draining
2.00 hr	N/A	5.33	4.33	42.37	72.2	8,662.96	N/A	233.44	Draining
3.00 hr	N/A	4.86	3.86	37.73	64.3	7,714.70	N/A	284.55	Draining
34.00 hr	N/A	4.36	3.36	32.83	55.9	6,712.58	N/A	269.10	Draining
35.00 hr	N/A	3.90	2.90	28.41	48.4	5,809.45	N/A	231.48	Draining
36.00 hr	N/A	3.56	2.56	25.03	42.7	5,118.37	N/A	154.10	Draining
87.00 hr	N/A	3.33	2.33	22.78	38.8	4,657.94	N/A		Draining
37.00 hr 38.00 hr	N/A	3.17	2.17	21.27	36.2	4,348.00	N/A		Draining
	N/A	3.08	2.08	20.32	34.6	4,154.26	N/A	41.86	Draining
39.00 hr	N/A	2.97	1.97	19.26	32.8	3,938.30	N/A		Draining
10.00 hr	· N/A	2.75	1.75	17.16	29.2	3,509.13	N/A		Draining
11.00 hr 12.00 hг	N/A	2.40	1.40	13.67	23.3	2,793.99	N/A	230.10	Draining
42.00 hr	N/A	1.98	0.98	9.62	16.4	1,966.87	N/A		Draining
	N/A	1.67	0.67	6.54	11.1	1,337.33	N/A		Draining
44.00 hr	N/A	1.58	0.58	5.68	9.7	1,160.44	21.92		Filling
45.00 hr	N/A	1.75	0.75	7.31	12.5	1,495.12	159.71		Filling
46.00 hr			1.11	10.82	18.4	2,211.76	231.47		Filling
47.00 hr	N/A	2.11 2.57		15.32	26.1	3,133.28	276.07		Filling
48.00 hr	N/A			20.43	34.8	4,176.59	302.32		Filling
49.00 hr	N/A	3.09			44.3	5,312.01	328.13		Filling
50.00 hr	N/A				54.4	6,525.80	348.50		Filling
51.00 hr	N/A			38.57		7,886.91	422.70		Filling
52.00 hr	N/A				77.6	9,316.88	367.41		Filling
53.00 hr	N/A				85.2	10,225.18	73.89		Filling
54.00 hr	N/A			50.01		10,262.87	N/A		Draining
55.00 hr	N/A					9,769.08	N/A		Draining
56.00 hr	N/A					9,769.06 8,929.94	N/A		Draining Draining
57.00 hr	N/A					5,929.94 7,959.21	N/A		Draining Draining
58.00 hr	N/A						N/A N/A		Draining Draining
59.00 hr	N/A					7,052.08			Draining Draining
60.00 hr	N/A					6,335.52	N/A		Draining Draining
61.00 hr	N/A					5,846.99			
62.00 hr	· N/A				46.0	5,522.09	N/A) Draining
63,00 hr	· N/A				44.3	5,317.92	N/A		Draining
64.00 hr	N/A					5,110.33			Draining
65.00 hr	N/A	3.36				4,719.11	N/A		Draining
66.00 hr	N/A					4,067.89	N/A		Draining
67.00 hr	N/A	2.63	1.63	15.93	27.1	3,257.48			3 Draining
68.00 hr	N/A		1.29	12.59	21.4	2,573.89	N/A	123.63	3 Draining

Detailed Report for Tank: T-Patenga

	Calculated Results Summary												
Time	Constituent (mg/l)	Calculated Hydraulic Grade (m)	Tank Level (m)	Pressure (kPa)	Percent Full (%)	Current Storage Volume (m³)	Tank Inflow (I/s)	Tank Outflow (I/s)	Status				
69.00 hr	N/A	2.16	1.16	11.31	19.3	2,312.68	23.54	N/A	Filling				
70,00 hr	N/A	2.27	1.27	12.44	21.2	2,543.93	160.46	N/A	Filling				
71,00 hr	N/A	2.60	1.60	15.68	26.7	3,205.99	229.62	N/A	Filling				
72.00 hr	N/A	3.04	2.04	20.00	34.1	4,088.24	278.30	N/A	Filling				



7.4-3-3 Hydraulic Analysis for Basic Plan Phase 2 (2010)

- Junction Report (for peak time of 09:00hrs)
- Pipe Report (for peak time of 09:00hrs)
- Detailed Report for Tank (Reservoir)

Basic Plan Phase 2 (2010) Extended Period Analysis: 9.0 hr / 72.0 hr Junction Report

Type Pattern (I/s) Demand (I/s) Hydraulic Grade (I/s) J-1T 3.8 Demand 0.00 Fixed 0.00 74.63 69 J-2T 4.3 Demand 0.00 Fixed 0.00 74.12 68 J-3T 4.6 Demand 0.00 Fixed 0.00 73.61 67 J-4T 4.0 Demand 0.00 Fixed 0.00 71.59 66 J-5T 3.7 Demand 0.00 Fixed 0.00 68.18 63 J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 51 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 33	(Pa) 92.85 82.96 75.03 61.19 30.77 96.18 19.80 63.46 20.76 77.15	Pressure Head (m) 70.83 69.82 69.01 67.59 64.48 60.95 53.14 47.38
(m) (l/s) (l/s) (m) (k J-1T 3.8 Demand 0.00 Fixed 0.00 74.63 69 J-2T 4.3 Demand 0.00 Fixed 0.00 74.12 68 J-3T 4.6 Demand 0.00 Fixed 0.00 73.61 67 J-4T 4.0 Demand 0.00 Fixed 0.00 71.59 66 J-5T 3.7 Demand 0.00 Fixed 0.00 68.18 63 J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 5 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	92.85 82.96 75.03 61.19 30.77 96.18 19.80 63.46 20.76	(m) 70.83 69.82 69.01 67.59 64.48 60.95 53.14
J-1T 3.8 Demand 0.00 Fixed 0.00 74.63 69 J-2T 4.3 Demand 0.00 Fixed 0.00 74.12 68 J-3T 4.6 Demand 0.00 Fixed 0.00 73.61 67 J-4T 4.0 Demand 0.00 Fixed 0.00 71.59 66 J-5T 3.7 Demand 0.00 Fixed 0.00 68.18 63 J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 5 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	92.85 82.96 75.03 61.19 30.77 96.18 19.80 63.46 20.76	70.83 69.82 69.01 67.59 64.48 60.95 53.14
J-2T 4.3 Demand 0.00 Fixed 0.00 74.12 68 J-3T 4.6 Demand 0.00 Fixed 0.00 73.61 67 J-4T 4.0 Demand 0.00 Fixed 0.00 71.59 66 J-5T 3.7 Demand 0.00 Fixed 0.00 68.18 63 J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 5 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	82.96 75.03 61.19 30.77 96.18 19.80 63.46 20.76	69.82 69.01 67.59 64.48 60.95 53.14
J-3T 4.6 Demand 0.00 Fixed 0.00 73.61 67 J-4T 4.0 Demand 0.00 Fixed 0.00 71.59 66 J-5T 3.7 Demand 0.00 Fixed 0.00 68.18 63 J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 5 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	75.03 61.19 30.77 96.18 19.80 63.46 20.76	69.01 67.59 64.48 60.95 53.14
J-4T 4.0 Demand 0.00 Fixed 0.00 71.59 66 J-5T 3.7 Demand 0.00 Fixed 0.00 68.18 63 J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 5 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	61.19 30.77 96.18 19.80 63.46 20.76	67.59 64.48 60.95 53.14
J-5T 3.7 Demand 0.00 Fixed 0.00 68.18 63 J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 5 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	30.77 96.18 19.80 63.46 20.76	64.48 60.95 53.14
J-6T 4.0 Demand 0.00 Fixed 0.00 64.95 59 J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 51 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 33	96.18 19.80 63.46 20.76	60.95 53.14
J-7T 4.0 Demand 0.00 Fixed 0.00 57.14 5 J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 33	19.80 63.46 20.76	53.14
J-8T 6.0 Demand 0.00 Fixed 0.00 53.38 46 J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	63.46 20.76	
J-9T 6.8 Demand 0.00 Fixed 0.00 49.81 42 J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37	20.76	
J-10T 9.0 Demand 0.00 Fixed 0.00 47.56 37		43.01
		38.56
J-11T 12.8 Demand 0.00 Fixed 0.00 45.33 3	18.23	32.53
		28.64
	80.15	-
	21.46	22.64
	32.79	23.80
	35.51	24.08
	65.16	27.11
	41.68	24.71
	71.89	27.79
	91.72	29.82
	80.14	28,64
	00.55	30.73
	87.95	29.44
	51.07	15.44
	28.61	13.15
	77.28	7.90
	51.60	35.94
	37.95	34.55
	76.85	28.30
	79.45	28.57
	14.67	21.95
	60.94	16.45
	84.58	18.87
	65.10	16.88
	63.17	16.68
	51.42	15.48
	88.55	9.05
	50.03	
	71.49	17.53
	06.33	21.09
	82.52	18.66
	82.53	18.66
	41.46	14.46
	81.75	18.58
	64.77	16.84
	47.37	15.07
	20.90	12.36
	30.72	13.36
	32.82	13.58
	31.61	13.45
	19.83	12.25
	26.05	12.89
	75.50	48.61
J-114- 4.0 Demand 13.10 1.5 19.56 52.51 47	74.54	48.51
	91.09	39,98
	93.69	40.25

Type					ction Rep				_
(m) (N) (N) (N) (N) (m) (KPa) (Demand 9.92 1.5 14.81 45.93 39.0.62 1.18.11 7.0 Demand 6.18 1.5 9.23 41.09 333.8 1.118.2 6.0 Demand 6.18 1.5 9.23 16.55 122.77 1.118.119.2 6.0 Demand 11.62 1.5 17.35 17.65 113.92 1.119.4 6.0 Demand 11.62 1.5 17.35 17.65 113.92 1.119.4 6.0 Demand 11.62 1.5 17.35 17.65 113.92 1.119.4 6.0 Demand 11.62 1.5 17.35 17.26 110.17 1.119.1 1.119.2 1.119.4 1.11	Node Label	Elevation		Demand					
J-117- G. Demand G. G. G. G. G. G. G. G	1		Туре		Pattern				Head
J-118-1 7.0 Demand 6.18 1.5 9.23 41.09 333.48 J-118-2 6.0 Demand 6.18 1.5 9.23 18.55 122.77 J-120 6.0 Demand 11.62 1.5 17.35 17.65 119.92 J-120 6.0 Demand 11.62 1.5 17.35 17.65 119.92 J-120 7.0 Demand 6.64 1.5 9.91 45.63 377.65 J-122 7.0 Demand 6.64 1.5 9.91 44.41 365.93 J-122 7.0 Demand 6.64 1.5 9.91 44.41 365.93 J-123 6.8 Demand 10.15 1.5 15.15 37.38 297.17 J-125 8.0 Demand 11.62 1.5 17.35 36.41 277.92 J-125 8.0 Demand 43.24 1.5 64.56 30.28 217.91 J-125 8.0 Demand 43.24 1.5 64.56 30.28 217.91 J-127 7.0 Demand 47.59 1.5 71.05 37.21 295.56 J-128 8.0 Demand 10.72 1.5 71.05 37.21 295.56 J-128 8.0 Demand 10.72 1.5 17.05 37.21 295.56 J-128 3.0 Demand 2.17 1.5 3.24 37.22 295.56 J-132 3.0 Demand 2.17 1.5 3.24 37.22 295.66 J-132 3.0 Demand 4.78 1.5 12.97 36.76 291.14 J-133 7.0 Demand 4.78 1.5 12.97 36.26 286.27 J-135 3.0 Demand 4.78 1.5 1.5 3.24 37.55 298.85 J-132 7.0 Demand 4.78 1.5 1.5 3.24 37.43 293.67 J-137 3.0 Demand 4.78 1.5 1.5 3.24 37.41 297.86 J-138 3.0 Demand 4.78 1.5 1.5 3.24 37.41 297.86 J-138 3.0 Demand 4.78 1.5 1.5 3.24 37.41 297.86 J-138 3.0 Demand 4.78 1.5 1.5 3.24 37.41 297.86 J-138 3.0 Demand 3.93 3.5 3.24 37.41 297.86 33.67									(m)
J-118-2									39.93
J-119- J-120- J-120- J-120- J-121- J-121- J-121- J-121- J-121- J-122- J-122- J-122- J-122- J-122- J-123- J-123- J-124- J-123- J-124- J-125- J-125- J-125- J-125- J-125- J-126- J-126- J-127- J-127- J-127- J-128- J-128- J-128- J-128- J-128- J-129- J-	18-1	7.0	Demand						34.09
J-120	18-2								12.55
1-121- 7.0 Demand 14.96 1.5 9.91 45.63 377.85 37.25	19-								11.65
J-122: 7.0 Demand 14.96 1.5 22.34 44.41 365.93 J-123-6.8 Demand 0.64 1.5 9.91 44.41 367.90 J-124-7.0 Demand 10.15 1.5 15.15 37.38 297.17 J-125-8.0.0 Demand 11.62 1.5 17.35 36.41 277.92 J-126-8.0.0 Demand 43.24 1.5 64.56 30.28 217.91 J-127-7.0 Demand 47.59 1.5 71.05 37.21 295.56 J-128-8.0 Demand 115.64 1.5 172.65 25.62 174.33 J-129-8.0 Demand 107.29 1.5 160.18 19.92 174.33 J-129-8.0 Demand 107.29 1.5 160.18 19.92 174.33 J-130-7.0 Demand 2.17 1.5 3.24 37.22 295.56 J-131-7.0 Demand 2.17 1.5 3.24 37.55 298.85 J-132-7.0 Demand 8.69 1.5 12.97 36.76 291.14 J-133-7.0 Demand 41.78 1.5 62.38 34.68 270.80 J-134-7.0 Demand 107.29 1.5 160.18 19.92 19.14 J-133-7.0 Demand 107.29 1.5 160.25 34.45 258.75 J-136-8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136-8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136-8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136-8.0 Demand 2.17 1.5 3.24 37.55 298.85 J-136-8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136-8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136-8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136-8.0 Demand 2.17 1.5 3.24 37.41 287.85 J-139-8.0 Demand 2.17 1.5 3.24 39.85 311.51 J-139-8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-141-8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-141-8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-141-8.0 Demand 11.84 1.5 27.47 44.9 361.09 J-144-8.0 Demand 11.84 1.5 27.47 44.9 361.09 J-144-8.0 Demand 11.84 1.5 27.47 44.9 361.09 J-144-9 6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-145-6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-145-6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-145-6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-145-6.9 Demand 30.99 1.5 46.27 20.24 119.74 J-155-9.0 Demand 30.99 1.5 46.27 20.24 119.74 J-155-9.0 Demand 30.99 1.5 46.27 20.24 119.74 J-155-9.0 Demand 30.99 1.5 46.27 20.92 115.66 J-155-9.0 Demand 30.64 1.5 45.75 38.80 32.25 159.60 J-156-9.0 Demand 30.64 1.5 45.75 38.80 32.25 159.60 J-156-150.0 Demand 30.64 1.5 45.75 38.80 32.25 159.80 J-156-15	20-	6.0	Demand	11.62	1.5	17.35	17.26		11.26
J-123	21-	7.0	Demand	6.64	1.5	9.91	45.63	377.85	38.63
J-124	22-	7.0	Demand	14.96	1.5	22.34	44.41	365.93	37.41
J-125	23-	6.8	Demand	6.64	1.5	9.91	44.41	367.90	37.61
1-125	24-	7.0	Demand	10.15	1.5	15.15	37.38	297.17	30.38
J-127- 7.0 Demand 47.59 1.5 71.05 37.21 295.56 J-128 8.0 Demand 115.64 1.5 172.65 25.82 174.33 J-130 7.0 Demand 21.7 1.5 32.4 37.22 295.56 J-131 7.0 Demand 2.17 1.5 3.24 37.22 295.56 J-131 7.0 Demand 2.17 1.5 3.24 37.55 298.85 J-131 7.0 Demand 2.17 1.5 3.24 37.55 298.85 J-133 7.0 Demand 8.69 1.5 12.97 36.76 291.14 J-133 7.0 Demand 8.69 1.5 12.97 36.76 291.14 J-133 7.0 Demand 8.69 1.5 12.97 36.26 268.27 J-134 7.0 Demand 8.69 1.5 12.97 36.26 268.27 J-135 8.0 Demand 67.22 1.5 100.36 31.67 231.57 J-137 8.0 Demand 2.17 1.5 3.24 37.41 297.65 J-138 8.0 Demand 2.17 1.5 3.24 39.85 311.51 J-139 8.0 Demand 8.69 1.5 12.97 40.16 314.59 J-140 8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-142 8.0 Demand 11.82 1.5 12.97 40.16 314.59 J-144 8.0 Demand 18.40 1.5 22.34 43.10 343.30 J-142 8.0 Demand 14.96 1.5 22.34 43.10 343.30 J-142 8.0 Demand 14.96 1.5 22.34 47.70 117.41 J-144 7.4 Demand 14.96 1.5 22.34 47.70 17.41 J-144 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146 6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-149 6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-149 6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-155 3.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152 9.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152 9.0 Demand 40.13 1.5 59.91 20.81 125.29 J-155 9.7 Demand 18.57 1.5 32.26 38.22 34.91 148.78 J-155 9.7 Demand 30.99 1.5 46.27 20.92 115.66 J-156 9.6 Demand 40.13 1.5 59.91 20.81 125.29 J-155 9.7 Demand 40.13 1.5 59.91 20.81 125.29 115.66 J-156 9.6 Demand 40.13 1.5 59.91 20.81 125.29 155.61 15.0 Demand 30.64 1.5 45.75 38.60 23	25-	8.0	Demand	11.62	1.5	17.35	36.41	277.92	28.41
1-127- 7.0 Demand 47.59 1.5 71.05 37.21 295.56 1-128- 8.0 Demand 107.29 1.5 150.18 19.92 116.63 1-130- 17.09 1-15.08	26-	8.0	Demand	43.24	1.5	64.56	30.28	217.91	22.28
J-128		7.0	Demand	47.59	1.5	71.05	37.21	295.56	30.21
J-129	28-			115.64	1.5	172.65	25.82	174.33	17.82
J-130-				107.29	1.5			116.63	11.92
J-131- 7.0 Demand 2.17 1.5 3.24 37.55 298.85 J-132- 7.0 Demand 8.69 1.5 12.97 36.76 291.14 J-133- 7.0 Demand 41.76 1.5 62.38 34.68 270.80 J-134- 7.0 Demand 41.76 1.5 62.38 34.68 270.80 J-135- 8.0 Demand 10.73 1.5 16.02 34.45 258.76 J-136- 8.0 Demand 67.22 1.5 100.36 31.67 231.57 J-137- 8.0 Demand 2.17 1.5 3.24 37.41 267.65 J-138- 8.0 Demand 2.17 1.5 3.24 39.85 311.51 J-139- 8.0 Demand 8.69 1.5 12.97 40.16 314.59 J-140- 8.0 Demand 14.96 1.5 12.97 40.16 314.59 J-142- 8.0 Demand 14.96 1.5 22.34 43.10 343.30 J-142- 8.0 Demand 14.96 1.5 22.34 43.10 343.30 J-142- 8.0 Demand 18.40 1.5 27.47 44.91 361.03 J-146- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-149- 6.8 Demand 21.84 1.5 32.61 48.11 404.43 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 20.81 125.29 J-155- 9.0 Demand 25.60 1.5 36.73 30.25 178.48 J-156- 9.6 Demand 25.60 1.5 36.73 30.25 178.48 J-156- 10.0 Demand 30.64 1.5 45.75 31.52 159.64 J-156- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-166- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-166- 15.0 Demand 30.64					1.5	3.24	37.22	295.56	30.22
J-132- 7.0 Demand 8.69 1.5 12.97 36.76 291.14 J-133- 7.0 Demand 41.76 1.5 62.38 34.68 270.80 J-134- 7.0 Demand 8.69 1.5 12.97 36.26 286.27 J-135- 8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136- 8.0 Demand 67.22 1.5 100.36 31.67 231.57 J-137- 8.0 Demand 2.17 1.5 3.24 37.41 287.65 J-138- 8.0 Demand 2.17 1.5 3.24 39.85 311.51 J-139- 8.0 Demand 8.69 1.5 12.97 40.16 314.59 J-140- 8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-141- 8.0 Demand 18.40 1.5 22.34 43.10 343.30 J-142- 8.0 Demand 18.40 1.5 22.34 43.10 343.30 J-143- 5.7 Demand 18.40 1.5 22.34 17.70 117.41 J-144- 7.4 Demand 18.40 1.5 27.47 43.84 356.44 J-145- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-147- 7.2 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.11 404.13 J-149- 6.8 Demand 21.84 1.5 32.61 20.16 133.61 J-150- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 20.81 125.29 J-153- 9.0 Demand 18.57 1.5 27.73 25.92 159.64 J-156- 9.6 Demand 24.60 1.5 36.73 30.25 178.48 J-156- 9.6 Demand 24.60 1.5 36.73 30.25 178.48 J-156- 9.6 Demand 30.64 1.5 45.75 31.52 161.57 J-163- 15.0 Demand 30.64 1.5 45.75 31.80 23.79 J-163- 15.0 Demand 30.64 1.5 45.75 39.80 232.79 J-164- 15.0 Demand 30.64 1.5 45.75 39.80 232.79 J-164- 15.0 Demand 30.64 1.5 45.75 31.52 161.57 J-163- 15.0 Demand 30.64 1.5 45.75 31.52 161.57 J-166- 15.0 Demand 30.64 1.5 45.75 31.51 32.56 J-166- 15.0 Demand 30.64									30.55
J-133- 7.0 Demand 41.76 1.5 62.38 34.68 270.80 J-134- 7.0 Demand 8.99 1.5 12.97 36.26 286.27 J-135- 8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136- 8.0 Demand 67.22 1.5 100.36 31.67 231.57 J-137- 8.0 Demand 2.17 1.5 3.24 37.41 287.65 J-138- 8.0 Demand 2.17 1.5 3.24 39.85 311.51 J-139- 8.0 Demand 2.17 1.5 3.24 39.85 311.51 J-140- 8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-141- 8.0 Demand 14.96 1.5 22.34 43.10 343.30 J-142- 8.0 Demand 18.40 1.5 27.47 44.91 361.03 J-144- 7.4 Demand 18.40 1.5 27.47 43.84 356.44 J-144- 7.4 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-148- 6.5 Demand 21.84 1.5 32.61 48.14 400.44 J-149- 6.8 Demand 21.84 1.5 32.61 48.14 400.44 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-151- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.24 119.74 J-155- 9.7 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 25.92 159.64 J-159- 12.0 Demand 18.57 1.5 27.73 25.92 159.64 J-159- 12.0 Demand 30.64 1.5 45.75 31.52 161.57 J-160- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-163- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-166- 15.0 Demand 20.97 1.5 31.31 25.58 152.39 J-166- 10.0 Demand 20.97 1.5 31.31 25.58 152.39									29.76
J-134- 7.0 Demand 8.69 1.5 12.97 36.26 286.27 J-135- 8.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136- 8.0 Demand 67.22 1.5 100.36 31.67 231.57 J-137- 8.0 Demand 2.17 1.5 3.24 37.41 287.65 J-138- 8.0 Demand 2.17 1.5 3.24 39.85 311.51 J-139- 8.0 Demand 8.69 1.5 12.97 40.16 314.59 J-140- 8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-141- 8.0 Demand 11.82 1.5 17.65 40.94 322.23 J-142- 8.0 Demand 18.40 1.5 22.34 43.10 343.30 J-142- 8.0 Demand 18.40 1.5 27.47 44.91 361.03 J-143- 5.7 Demand 18.40 1.5 27.47 43.84 356.44 J-144- 7.4 Demand 18.40 1.5 27.47 43.84 356.44 J-145- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 20.81 125.29 J-155- 9.7 Demand 30.99 1.5 46.27 20.82 115.66 J-156- 9.6 Demand 21.85 1.5 27.73 28.87 173.18 J-158- 11.0 Demand 18.57 1.5 27.73 28.87 173.18 J-159- 12.0 Demand 30.64 1.5 45.75 33.69 182.80 J-160- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-163- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-164- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-164- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-166- 15.0 Demand 20.97 1.5 31.31 25.58 152.39									27.68
J-135- B.0 Demand 10.73 1.5 16.02 34.45 258.75 J-136- B.0 Demand 67.22 1.5 100.36 31.67 231.57 J-137- B.0 Demand 2.17 1.5 3.24 37.41 287.65 J-138- B.0 Demand 2.17 1.5 3.24 39.85 311.51 J-139- B.0 Demand 8.69 1.5 12.97 40.16 314.59 J-140- B.0 Demand 11.82 1.5 17.65 40.94 322.23 J-141- B.0 Demand 14.96 1.5 22.34 43.10 343.30 J-142- B.0 Demand 14.96 1.5 22.34 43.10 343.30 J-142- B.0 Demand 14.96 1.5 22.34 17.70 117.41 J-144- 7.4 Demand 18.40 1.5 27.47 43.84 356.44 J-145- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.16 133.61 J-150- B.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- B.0 Demand 30.99 1.5 46.27 20.24 119.74 J-155- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-156- 9.6 Demand 25.60 1.5 38.22 24.91 148.76 J-156- 9.6 Demand 30.99 1.5 46.27 20.82 115.66 J-156- 9.6 Demand 30.64 1.5 37.73 25.92 159.64 J-156- 9.6 Demand 30.99 1.5 46.27 20.82 115.66 J-156- 9.6 Demand 30.64 1.5 37.73 25.92 159.64 J-156- 9.6 Demand 30.94 1.5 37.73 25.92 159.64 J-156- 9.6 Demand 30.64 1.5 36.73 30.25 178.48 J-159- 12.0 Demand 30.64 1.5 45.75 33.69 23.77 J-163- 15.0 Demand 30.64 1.5 45.75 33.69 23.77 J-163- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-164- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-166- 15.0 Demand 30.64 1.5 45.75 31.52 66.57 J-166- 15.0 Demand 30.64 1.5 45.75 31.52 66.64 J-166- 15.0 Demand 30.64 1.5 45.75 31.59 25.58 152.39 J-166- J-166- J-1									29.26
J-136-									26.45
J-137-									23.67
J-138-									29.41
J-139-									31.85
J-140-									32.16
J-141- 8.0 Demand 14.96 1.5 22.34 43.10 343.30 J-142- 8.0 Demand 18.40 1.5 27.47 44.91 361.03 J-143- 5.7 Demand 14.96 1.5 22.34 17.70 117.41 J-144- 7.4 Demand 18.40 1.5 27.47 43.84 356.44 J-145- 6.8 Demand 18.40 1.5 32.61 48.95 412.33 J-145- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.11 400.43 J-148- 6.5 Demand 21.84 1.5 32.61 48.14 400.44 J-149- 6.8 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74									32.94
J-142- 8.0 Demand 18.40 1.5 27.47 44.91 361.03 J-143- 5.7 Demand 14.96 1.5 22.34 17.70 117.41 J-144- 7.4 Demand 18.40 1.5 22.47 43.84 356.44 J-145- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 21.84 1.5 39.61 20.81 125.29	·								35.10
J-143- 5.7 Demand 14.96 1.5 22.34 17.70 117.41 J-144- 7.4 Demand 18.40 1.5 27.47 43.84 356.44 J-145- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 20.81 125.29									36,91
J-144- 7.4 Demand 18.40 1.5 27.47 43.84 356.44 J-145- 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 21.84 1.5 32.61 20.38 132.88									12.00
J-145 6.8 Demand 21.84 1.5 32.61 48.95 412.33 J-146- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78									36.44
J-146- 6.8 Demand 21.84 1.5 32.61 48.11 404.13 J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 20.81 125.29 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 20.82 115.66 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64									42.15
J-147- 7.2 Demand 21.84 1.5 32.61 48.14 400.44 J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 20.82 115.66 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>41.31</td></tr<>									41.31
J-148- 6.5 Demand 21.84 1.5 32.61 20.16 133.61 J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 J-158- 11.0 Demand 18.57 1.5 27.73 28.70 173.18 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>40.94</td></t<>									40.94
J-149- 6.8 Demand 21.84 1.5 32.61 20.38 132.88 J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 J-158- 11.0 Demand 18.57 1.5 27.73 28.70 173.18 J-159- 12.0 Demand 24.60 1.5 36.73 30.25 178.48 <									13.66
J-150- 8.0 Demand 30.99 1.5 46.27 20.24 119.74 J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 J-158- 11.0 Demand 18.57 1.5 27.73 28.70 173.18 J-159- 12.0 Demand 24.60 1.5 36.73 30.25 178.48 J-160- 15.0 Demand 30.64 1.5 45.75 31.52 161.57									13.58
J-151- 8.0 Demand 40.13 1.5 59.91 20.81 125.29 J-152- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 J-158- 11.0 Demand 18.57 1.5 27.73 28.70 173.18 J-159- 12.0 Demand 24.60 1.5 36.73 30.25 178.48 J-160- 15.0 Demand 30.64 1.5 45.75 31.52 161.57 J-162- 15.0 Demand 30.64 1.5 45.75 38.80 232.79									12.24
J-152- 9.0 Demand 40.13 1.5 59.91 22.18 128.95 J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 J-158- 11.0 Demand 18.57 1.5 27.73 28.70 173.18 J-159- 12.0 Demand 24.60 1.5 36.73 30.25 178.48 J-160- 15.0 Demand 30.64 1.5 45.75 31.52 161.57 J-162- 15.0 Demand 30.64 1.5 45.75 36.83 213.57 <									
J-153- 9.0 Demand 30.99 1.5 46.27 20.82 115.66 J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 J-158- 11.0 Demand 18.57 1.5 27.73 28.70 173.18 J-159- 12.0 Demand 24.60 1.5 36.73 30.25 178.48 J-160- 15.0 Demand 30.64 1.5 45.75 31.52 161.57 J-161- 15.0 Demand 30.64 1.5 45.75 33.69 182.80 J-162- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-163- 15.0 Demand 30.64 1.5 45.75 38.80 232.79									12.81
J-154- 10.1 Demand 30.99 1.5 46.27 23.96 135.61 J-155- 9.7 Demand 25.60 1.5 38.22 24.91 148.78 J-156- 9.6 Demand 18.57 1.5 27.73 25.92 159.64 J-157- 11.0 Demand 18.57 1.5 27.73 26.83 154.83 J-158- 11.0 Demand 18.57 1.5 27.73 28.70 173.18 J-159- 12.0 Demand 24.60 1.5 36.73 30.25 178.48 J-160- 15.0 Demand 30.64 1.5 45.75 31.52 161.57 J-161- 15.0 Demand 30.64 1.5 45.75 33.69 182.80 J-162- 15.0 Demand 30.64 1.5 45.75 38.80 232.79 J-163- 15.0 Demand 30.64 1.5 45.75 39.87 243.31 J-165- 15.0 Demand 30.64 1.5 45.75 39.87 243.31									
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J-166- 10.0 Demand 20.97 1.5 31.31 25.58 152.39	164-	15.0	Demand	30.64		 	· · · · · · · · · · · · · · · · · · ·		24.87
	165-	15.0	Demand	30.64					
	166-	10.0	Demand	20.97	1.5	31.31	25.58	152.39	15.58
#	167-	10.0	Demand	218.54	1.5	326.28	33.98	234.60	23.98
J-168- 10.0 Demand 18.57 1.5 27.73 47.63 368.09						27.73	47.63		
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Node Label	Elevation	Demand	Demand		Calculated		Pressure	
		Type		Pattern	Demand	Hydraulic Grade		Head
	(m)		(l/s)		(l/s)	(m)	(kPa)	(m)
J-173-	12.3	Demand	14.96	1.5	22.34	45.22	321.99	32.92
J-174-		Demand	14.96	1.5	22.34	43.93	334.85	34.23
J-175-		Demand	3.74	1.5	5.58	43.86	331.26	33.86
J-176-		Demand	3.74	1.5	5.58		377.62	38.60
J-177-		Demand	14.96	1.5	22.34	43.90	341.39	34.90
			14.96	1.5	22.34		305.59	31.24
J-178-	+	Demand		1.5	22.34		295.73	30.23
J-179-		Demand	14.96				297.73	30.44
J-180-		Demand	11.82	1.5	17.65			
J-18 <u>1</u> -		Demand	7.80	1.5	11.65		306.33	31.32
J-182-		Demand	8.69	1.5	12.97	39.60	181.92	18.60
J-183-	9.0	Demand	8.69	1.5	12.97	39.37	297.03	30,37
J-184-	8.0	Demand	8.11	1.5	12.11		306.62	31.35
J-185-	9.0	Demand	8.11	1.5	12.11	39.54	298.72	30.54
J-186-		Demand	7.54	1.5	11.26	39.81	291.56	29.81
J-187-		Demand	7.54	1.5	11.26		330.54	33.79
J-188-		Demand		1.5	16.80			32.36
		Demand		1.5				29.84
J-189-			7.54	1.5				30.61
J-190-		Demand						
J-191-		Demand		1.5				30.14
J-192-		Demand					282.79	28.91
J-193-	11.0	Demand						27.85
J-194-		Demand		1.5				23.54
J-195-	11.0	Demand	8.11	1.5	12.11	32.95	214.71	21.95
J-196-		Demand		1.5	12.97	35.73	271.25	27.73
J-197-		Demand	+			36.03	274.21	28.03
J-198-		Demand						27.99
J-199-		Demand						26.87
								24.15
J-200-		Demand						23.15
J-201-		Demand						
J-202-		Demand						24.47
J-203-		Demand	-					
J-204-	9.0	Demand						
J-205-	9.0	Demand						
J-206-	12.0	Demand	12.77	1.5	19.07			
J-207-	14.0	Demand	8.11	1.5	12.11	32.99	185.78	18.99
J-208-		Demand			19.07	38.68	270.78	27.68
J-209-		Demand						27.15
	_	Demand						
J-210-	_+	+	+		-		+	
J-211-		Demand						
J-212-		Demand						
J-213-		Demand						_
J-214-		Demand					-	
J-215-	18.0	Demand						
J-216-	15.5	Demand	0.00					
J-217-1		Demand	-	1.5	42.55	46.56	330.26	33.76
J-217-2	_	Demand				42.65	417.24	42.65
J-218-		Demand						
J-219-		Demand						· -
			1					
J-220-		Demano						
J-221-		Demand						
J-222-		Demand						20.67
J-223-		Demand						
J-224-	13.9	Demand						
J-225-	21.0	Demand	7.54	1.5	11.26	48.00	264.10	27.00
J-226-		Demand) 1.5	42.55	45.49	307.99	31.49
10 660								07.4
J-227-	10.0	Demano	1 9.60) 1.5	5 14.33	37.14	1 265.51	27.14

Type	69 27.06 39 27.03 70 17.86 57 16.31 80 17.97 65 22.35 61 23.68 55 24.49 48 24.69
Mathematical Color Mathema	a) (m) 69 27.06 39 27.03 70 17.86 57 16.31 80 17.97 65 22.35 61 23.68 55 24.49 48 24.69
J-229- 10.0 Demand 8.96 1.5 13.38 37.06 264 J-230- 10.5 Demand 8.96 1.5 13.38 37.53 264 J-231- 13.5 Demand 9.60 1.5 14.33 31.81 159 J-232- 15.5 Demand 9.60 1.5 14.33 31.81 159 J-233- 15.6 Demand 9.60 1.5 14.33 33.57 175 J-234- 11.4 Demand 4.95 1.5 7.39 33.75 218 J-235- 10.6 Demand 1.89 1.5 2.82 34.28 231 J-236- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-237- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-238- 10.0 Demand 1.696 1.5 25.17 33.30 225 J-240- 8.0	69 27.06 39 27.03 70 17.86 57 16.31 80 17.97 65 22.35 61 23.68 55 24.49 48 24.69
J-230- 10.5 Demand 8.96 1.5 13.38 37.53 264 J-231- 13.5 Demand 9.60 1.5 14.33 31.36 174 J-232- 15.5 Demand 9.60 1.5 14.33 33.57 175 J-233- 15.6 Demand 4.95 1.5 7.39 33.75 218 J-234- 11.4 Demand 4.95 1.5 7.39 33.75 218 J-235- 10.6 Demand 1.89 1.5 2.82 34.28 231 J-236- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-237- 10.0 Demand 16.86 1.5 25.17 33.30 227 J-238- 10.0 Demand 16.86 1.5 25.17 33.30 227 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0	39 27.03 70 17.86 57 16.31 80 17.97 65 22.35 61 23.68 55 24.49 48 24.69
J-231- 13.5 Demand 9.60 1.5 14.33 31.36 174 J-232- 15.5 Demand 9.60 1.5 14.33 31.81 159 J-233- 15.6 Demand 9.60 1.5 14.33 33.57 175 J-234- 11.4 Demand 4.95 1.5 7.39 33.75 218 J-235- 10.6 Demand 1.89 1.5 2.82 34.28 231 J-236- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-237- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-238- 10.0 Demand 16.86 1.5 25.17 33.90 227 J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0	70 17.86 57 16.31 80 17.97 65 22.35 61 23.68 55 24.49 48 24.69
J-232- 15.5 Demand 9.60 1.5 14.33 31.81 159 J-233- 15.6 Demand 9.60 1.5 14.33 33.57 175 J-234- 11.4 Demand 4.95 1.5 7.39 33.75 218 J-235- 10.6 Demand 1.89 1.5 2.82 34.28 231 J-236- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-237- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-238- 10.0 Demand 16.86 1.5 25.17 33.30 227 J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159 J-241-2 8.0	.57 16.31 .80 17.97 .65 22.35 .61 23.68 .55 24.49 .48 24.69
J-233- 15.6 Demand 9.60 1.5 14.33 33.57 175 J-234- 11.4 Demand 4.95 1.5 7.39 33.75 218 J-235- 10.6 Demand 1.89 1.5 2.82 34.28 231 J-236- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-237- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-238- 10.0 Demand 16.86 1.5 25.17 33.30 227 J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159 J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182 J-242- 8.0	80 17.97 65 22.35 61 23.68 55 24.49 48 24.69
J-234- 11.4 Demand 4.95 1.5 7.39 33.75 218 J-235- 10.6 Demand 1.89 1.5 2.82 34.28 231 J-236- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-237- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-238- 10.0 Demand 16.86 1.5 25.17 33.30 225 J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159 J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182 J-242- 8.0 Demand 58.18 1.5 86.86 18.73 104 J-243-2 9.0 Demand 58.18 1.5 86.86 28.39 189 J-244- <t< td=""><td>65 22.35 61 23.68 55 24.49 48 24.69</td></t<>	65 22.35 61 23.68 55 24.49 48 24.69
J-235- 10.6 Demand 1.89 1.5 2.82 34.28 231 J-236- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-237- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-238- 10.0 Demand 16.86 1.5 25.17 33.30 227 J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159 J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182 J-241-2 8.0 Demand 58.18 1.5 86.86 18.73 104 J-243-1 9.0 Demand 58.18 1.5 86.86 28.39 189 J-244- 8.0	.61 23.68 .55 24.49 .48 24.69
J-236- 10.0 Demand 1.89 1.5 2.82 34.49 239 J-237- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-238- 10.0 Demand 16.86 1.5 25.17 33.30 227 J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159 J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182 J-242- 8.0 Demand 58.18 1.5 86.86 18.73 104 J-243-1 9.0 Demand 58.18 1.5 86.86 28.39 189 J-243-2 9.0 Demand 0.00 Fixed 0.00 25.78 164 J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155 J-245-	.55 24.49 .48 24.69
J-237- 10.0 Demand 0.94 1.5 1.40 34.69 241 J-238- 10.0 Demand 16.86 1.5 25.17 33.30 227 J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225 J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159 J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182 J-242- 8.0 Demand 58.18 1.5 86.86 18.73 104 J-243-1 9.0 Demand 58.18 1.5 86.86 28.39 189 J-243-2 9.0 Demand 0.00 Fixed 0.00 25.78 164 J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155 J-245- 9.0 Demand 4.89 1.5 2.82 32.46 219 J-246-	48 24.69
J-238- 10.0 Demand 16.86 1.5 25.17 33.30 227. J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225. J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255. J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159. J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182. J-242- 8.0 Demand 58.18 1.5 86.86 18.73 104. J-243-1 9.0 Demand 58.18 1.5 86.86 28.39 189. J-243-2 9.0 Demand 0.00 Fixed 0.00 25.78 164. J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155. J-245- 9.0 Demand 48.87 1.5 72.96 28.08 186. J-246- 10.0 Demand 1.89 1.5 2.82 33.13 226. J-247-	
J-239- 10.0 Demand 26.39 1.5 39.40 33.03 225. J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255. J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159. J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182. J-242- 8.0 Demand 58.18 1.5 86.86 18.73 104. J-243-1 9.0 Demand 58.18 1.5 86.86 28.39 189. J-243-2 9.0 Demand 0.00 Fixed 0.00 25.78 164. J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155. J-245- 9.0 Demand 48.87 1.5 72.96 28.08 186. J-246- 10.0 Demand 1.89 1.5 2.82 33.13 226. J-247-	
J-240- 8.0 Demand 1.89 1.5 2.82 34.10 255 J-241-1 8.0 Demand 29.09 1.5 43.43 24.35 159 J-241-2 8.0 Demand 55.62 1.5 83.04 26.70 182 J-242- 8.0 Demand 58.18 1.5 86.86 18.73 104 J-243-1 9.0 Demand 58.18 1.5 86.86 28.39 189 J-243-2 9.0 Demand 58.18 1.5 86.86 28.39 189 J-244- 8.0 Demand 0.00 Fixed 0.00 25.78 164 J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155 J-245- 9.0 Demand 48.87 1.5 72.96 28.08 186 J-246- 10.0 Demand 1.89 1.5 2.82 33.13 226 J-247- 10.0 Demand 1.89 1.5 2.82 33.43 248 J-249-	
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J-243-1 9.0 Demand 58.18 1.5 86.86 28.39 189 J-243-2 9.0 Demand 0.00 Fixed 0.00 25.78 164 J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155 J-245- 9.0 Demand 48.87 1.5 72.96 28.08 186 J-246- 10.0 Demand 1.89 1.5 2.82 32.46 219 J-247- 10.0 Demand 1.89 1.5 2.82 33.13 226 J-248- 8.0 Demand 1.89 1.5 2.82 33.43 248 J-249- 8.0 Demand 1.89 1.5 2.82 34.15 255 J-250- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-251- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-252- 10.0 Demand 1.89 1.5 2.82 33.19 226 J-253- 10.0	
J-243-2 9.0 Demand 0.00 Fixed 0.00 25.78 164 J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155 J-245- 9.0 Demand 48.87 1.5 72.96 28.08 186 J-246- 10.0 Demand 1.89 1.5 2.82 32.46 219 J-247- 10.0 Demand 1.89 1.5 2.82 33.13 226 J-248- 8.0 Demand 1.89 1.5 2.82 33.43 248 J-249- 8.0 Demand 1.89 1.5 2.82 34.15 255 J-250- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-251- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-252- 10.0 Demand 1.89 1.5 2.82 33.19 226 J-253- 10.0 Demand 1.89 1.5 2.82 33.15 226 J-254- 10.6 Demand 1.89 1.5 2.82 34.63 235 J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256- 9.0 Demand 36.54 1.5 54.55 31.19 217	
J-244- 8.0 Demand 84.72 1.5 126.49 23.87 155 J-245- 9.0 Demand 48.87 1.5 72.96 28.08 186 J-246- 10.0 Demand 1.89 1.5 2.82 32.46 219 J-247- 10.0 Demand 1.89 1.5 2.82 33.13 226 J-248- 8.0 Demand 1.89 1.5 2.82 33.43 248 J-249- 8.0 Demand 1.89 1.5 2.82 34.15 255 J-250- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-251- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-252- 10.0 Demand 1.89 1.5 2.82 33.19 226 J-253- 10.0 Demand 1.89 1.5 2.82 33.15 226 J-254- 10.6 Demand 1.89 1.5 2.82 34.63 235 J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256-	
J-245- 9.0 Demand 48.87 1.5 72.96 28.08 186 J-246- 10.0 Demand 1.89 1.5 2.82 32.46 219 J-247- 10.0 Demand 1.89 1.5 2.82 33.13 226 J-248- 8.0 Demand 1.89 1.5 2.82 34.15 255 J-249- 8.0 Demand 1.89 1.5 2.82 34.15 255 J-250- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-251- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-252- 10.0 Demand 1.89 1.5 2.82 33.19 226 J-253- 10.0 Demand 1.89 1.5 2.82 33.15 226 J-254- 10.6 Demand 1.89 1.5 2.82 34.63 235 J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256- 9.0 Demand<	
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J-247- 10.0 Demand 1.89 1.5 2.82 33.13 226 J-248- 8.0 Demand 1.89 1.5 2.82 33.43 248 J-249- 8.0 Demand 1.89 1.5 2.82 34.15 255 J-250- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-251- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-252- 10.0 Demand 1.89 1.5 2.82 33.19 226 J-253- 10.0 Demand 1.89 1.5 2.82 33.15 226 J-254- 10.6 Demand 1.89 1.5 2.82 34.63 235 J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256- 9.0 Demand 36.54 1.5 54.55 31.19 217	
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J-250- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-251- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-252- 10.0 Demand 1.89 1.5 2.82 33.19 226 J-253- 10.0 Demand 1.89 1.5 2.82 33.15 226 J-254- 10.6 Demand 1.89 1.5 2.82 34.63 235 J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256- 9.0 Demand 36.54 1.5 54.55 31.19 217	
J-251- 8.0 Demand 1.89 1.5 2.82 34.12 255 J-252- 10.0 Demand 1.89 1.5 2.82 33.19 226 J-253- 10.0 Demand 1.89 1.5 2.82 33.15 226 J-254- 10.6 Demand 1.89 1.5 2.82 34.63 235 J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256- 9.0 Demand 36.54 1.5 54.55 31.19 217	
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J-254- 10.6 Demand 1.89 1.5 2.82 34.63 235 J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256- 9.0 Demand 36.54 1.5 54.55 31.19 217	
J-255- 10.0 Demand 1.89 1.5 2.82 32.09 216 J-256- 9.0 Demand 36.54 1.5 54.55 31.19 217	
J-256- 9.0 Demand 36.54 1.5 54.55 31.19 217	
J-257- 9.0 Demand 1.89 1.5 2.82 31.29 218	
J-258- 7.0 Demand 21.22 1.5 31.68 28.25 207	
J-259- 6.0 Demand 34.66 1.5 51.75 24.26 178	
J-260- 6.0 Demand 21.22 1.5 31.68 28.00 215	
J-261- 6.0 Demand 21.22 1.5 31.68 27.91 214	
J-262- 9.0 Demand 5.10 1.5 7.61 30.67 212	
J-263- 5.0 Demand 8.32 1.5 12.42 29.82 242	
J-264- 9.0 Demand 5.10 1.5 7.61 31.23 217	
J-265- 8.0 Demand 8.32 1.5 12.42 31.19 226	
J-266- 6.0 Demand 11.85 1.5 17.69 31.17 246	
J-267- 5.0 Demand 11.85 1.5 17.69 30.54 249	
J-268- 4.0 Demand 7.69 1.5 11.48 31.09 264	
J-269- 4.0 Demand 7.69 1.5 11.48 31.12 265	
J-270- 4.0 Demand 15.38 1.5 22.96 30.29 257	
J-271- 4.0 Demand 22.35 1.5 33.37 30.06 254	
J-272- 6.0 Demand 15.38 1.5 22.96 29.87 233	
J-273- 6.0 Demand 22.35 1.5 33.37 30.06 235	
J-274- 9.0 Demand 5.10 1.5 7.61 35.63 260	
J-275- 9.3 Demand 8.32 1.5 12.42 35.68 258	
J-276- 10.5 Demand 8.32 1.5 12.42 36.10 250	
J-277- 10.0 Demand 8.32 1.5 12.42 35.86 253	
J-278- 11.0 Demand 8.32 1.5 12.42 36.55 249	
J-279- 7.1 Demand 8.32 1.5 12.42 35.53 278	
J-280- 6.8 Demand 11.85 1.5 17.69 33.91 265	
J-281- 7.9 Demand 14.66 1.5 21.89 33.91 254	
J-282- 7.8 Demand 14.66 1.5 21.89 35.36 269	
J-283- 8.0 Demand 29.32 1.5 43.77 37.72 290	.45 26.01

Node Label	Flevation	Demand		Demand	Calculated	Calculated	Pressure	Pressure
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Туре		Pattern		Hydraulic Grade		Head
	(m)	,,,,,	(l/s)		(1/5)	(m)	(kPa)	(m)
J-284-		Demand		1.5	47.27	38.17		30.17
J-285-		Demand		1.5	11.26			25.78
J-286-		Demand		1.5	55.12			22.26
J-287-		Demand		1.5				32.38
J-288-		Demand		1.5	42.48			30.68
J-289-		Demand	27.58	1.5	41.18			26.74
J-290-		Demand	27.58	1.5	41.18		257.39	26.31
J-291-		Demand	27.58	1.5	41.18			28.90
J-292-		Demand	49.45	1.5	73.83		269.11	27.51
J-293-1		Demand	0.00	1.5	0.00			27.45
J-293-2		Demand		1.5	0.00			12.78
J-294-		Demand		1.5	11.17	46.49		27.39
J-295-		Demand	7.48	1.5	11.17	45.96		25.96
J-296-		Demand	14.96	1.5	22.34	44.80		23.30
J-297-		Demand		1.5	22.34			20.90
J-297-		Demand		1.5	22.34			25.89
J-296- J-299-		Demand		1.5	+			
J-299- J-300-					22.34			20.91
		Demand	14.96	1,5				17.14
J-301-1 J-301-2		Demand Demand	0.00	1.5 1.5	0.00			7.87 7.44
J-301-2 J-302-			0.00	1.5	0.00			
J-302- J-303-		Demand	0.00		0.00			8.34
		Demand		1.5 1.5	119.81			7.75
J-304-		Demand				26.97	175.81	17.97
J-305-		Demand		1.5	45.98			16.83
J-306-		Demand		1.5	45.98			15.24
J-307-		Demand		1.5	45.98		126.86	12.97
J-308-		Demand		1.5	45.98			9.98
J-309-		Demand		1.5	22.34	35.28		18.38
J-310-		Demand		1.5	45.98			14.29
J-311-		Demand		1.5	5.58			10.12
J-312-		Demand		1.5	40.12			12.49
J-313-		Demand		1.5	57.90			23.87
J-314-		Demand	32.93	1,5	49.16			26.59
J-315-		Demand		1.5	49.16	35,73		26.73
J-316-		Demand		1.5	49.16			26.95
J-317-		Demand		1,5	57.90	27.48		18.48
J-318-		Demand						
J-319-		Demand		1.5	28.68			
J-320-		Demand		1.5	28.68			34.70
J-321-		Demand		1.5				38.52
J-322-		Demand		1.5	28.68		•——	39.74
J-323-		Demand		1.5	28.68			37.56
J-324-		Demand		1.5		44.49		34.49
J-325-		Demand		1.5	23.63	40.74	300.71	30.74
J-326-	1	Demand	•	1.5	23.63	36.08		26.08
J-327-		Demand		1.5	23,63	32.15		22.15
J-328-		Demand		1.5	23.63	28.93		18.93
J-329-		Demand		1.5		35.47	258.91	26.47
J-330-		Demand		1.5	49.16	34.42	248.63	25.42
J-331-		Demand		1.5	49.16		230.19	23.53
J-332-		Demand		1.5	20.22	32.31	228.06	23.31
J-333-		Demand		1.5	59.38		217.82	22.27
J-334-		Demand		1.5	19.93	28.82	213.42	21.82
J-335-		Demand		1.5	38.40	30.97		21.97
J-336-		Demand		1.5	20.32	_		21.26
J-337-	1 90	Demand	28.72	1.5	42.88	24.43	150.98	15.43
J-338-		Demand		1.5				14.98

Name		· · · · · · · · · · · · · · · · · · ·			ction Rep		C-lavilakad	Dragatura	Droceuro
1,3399	Node Label	Elevation	I	Demand					
J.339			Type		Pattern		•		
1.540									
J-S41									
J-342 7.0 Demand 14.16 1.5 21.14 21.99 140.80 14.39 J-343 7.0 Demand 0.00 1.5 0.00 21.31 139.94 14.31 139.44 7.0 Demand 21.75 1.5 32.47 21.20 138.86 14.20 1.344 7.0 Demand 16.28 1.5 24.31 17.91 116.48 11.91 1.346 5.0 Demand 16.28 1.5 24.31 17.76 124.82 12.76 1.344 7.40 Demand 16.28 1.5 24.31 17.76 124.82 12.76 1.344 7.40 Demand 18.77 1.5 27.13 17.16 128.89 13.14 1.344 7.40 Demand 18.77 1.5 27.13 17.16 128.89 13.14 1.349 1.349 4.0 Demand 18.28 1.5 24.31 17.18 128.94 19.18 1.349 1.349 4.0 Demand 14.72 1.5 21.98 17.24 129.50 13.24 1.350									
J-343									
J-944	J-342-	7.0	Demand	_					
J-345- J-346- J-346- J-346- J-350 Demand 16.28 1.5 24.31 17.91 116.48 11.91 J-346- J-346- J-350 Demand 16.28 1.5 24.31 17.76 124.82 12.76 J-347- J-340 Demand 18.17 1.5 27.13 17.18 128.93 13.18 J-348- J-348- J-348- J-349- J-349- J-349- J-349- J-350- J-350	J-343-	7.0	Demand						
J-346- J-347- J-348- J-347- J-348- J-348- J-348- J-349- J-	J-344-	7.0	Demand						
J-347- 4.0 Demand 18.17 1.5 27.13 17.18 128.93 13.18 J-348- 4.0 Demand 16.26 1.5 24.31 17.18 128.94 13.18 J-348- 4.0 Demand 14.72 1.5 21.98 17.24 129.50 13.24 J-350- 6.0 Demand 14.72 1.5 21.98 20.35 140.37 14.35 J-350- 6.0 Demand 14.72 1.5 21.98 20.35 140.37 14.35 J-351- 5.0 Demand 6.58 1.5 9.82 19.50 141.86 14.50 J-352- 5.0 Demand 6.58 1.5 9.82 19.50 141.86 14.50 J-353- 5.0 Demand 6.58 1.5 9.82 19.51 141.89 14.51 J-353- 5.0 Demand 6.58 1.5 9.82 19.35 140.34 14.35 J-355- 5.0 Demand 6.58 1.5 9.82 19.35 140.34 14.35 J-355- 5.0 Demand 6.58 1.5 9.82 19.35 140.34 14.35 J-355- 5.0 Demand 6.58 1.5 9.82 19.35 140.34 14.35 J-355- 4.0 Demand 13.16 1.5 19.65 20.12 157.64 16.12 J-357- 4.0 Demand 6.58 1.5 9.82 19.33 149.93 15.33 J-358- 4.0 Demand 6.58 1.5 9.82 19.34 150.08 15.34 J-359- 4.0 Demand 12.76 1.5 19.05 17.84 135.39 15.84 J-360- 4.0 Demand 19.34 1.5 28.87 18.67 143.52 14.67 J-361- 4.0 Demand 19.34 1.5 28.87 18.67 143.52 14.67 J-362- 4.0 Demand 12.76 1.5 19.05 18.39 14.07 14.39 J-363- 4.0 Demand 12.76 1.5 19.05 18.13 138.21 14.13 J-364- 4.0 Demand 12.76 1.5 19.05 18.13 138.21 14.13 J-365- 4.0 Demand 12.76 1.5 19.05 18.39 14.07 14.39 J-366- 4.0 Demand 12.76 1.5 19.05 18.39 14.07 14.39 J-366- 4.0 Demand 12.76 1.5 19.05 18.39 14.07 14.39 J-366- 4.0 Demand 12.76 1.5 19.05 18.39 14.07 14.39 J-366- 4.0 Demand 12.76 1.5 19.05 18.39 13.24 J-368- 4.0 Demand 12.76 1.5 19.05 18.39 13.24 J-368- 4.0 Demand 12.76 1.5 19.05 18.39 13.24 J-377- 4.0 Demand 14.60 1.5 12.60 16.4	J-345-								
John	J-346-								
J-349- J-350- J-	J-347-	4.0	Demand						
J350	J-348-	4.0	Demand						
1,551	J-349-	4.0	Demand						
J-352	J-350-	6.0	Demand						
1,353-3 1,50 Demand 13,16 1,5 19,65 18,24 129,51 13,24 1,354 5.0 Demand 6,58 1,5 9,82 19,35 140,34 14,35 1,355 5.0 Demand 6,58 1,5 9,82 19,35 140,34 14,35 1,356 4.0 Demand 6,58 1,5 9,82 19,34 150,08 15,34 1,356 1,5 9,82 19,34 150,08 15,34 1,356 4.0 Demand 6,58 1,5 9,82 19,34 150,08 15,34 1,359 4.0 Demand 6,58 1,5 9,82 19,33 149,99 15,33 1,359 4.0 Demand 12,76 1,5 19,05 17,84 135,29 13,84 1,360 4.0 Demand 12,76 1,5 19,05 17,84 135,29 13,84 1,360 4.0 Demand 19,34 1,5 28,87 18,67 143,52 14,67 1,362 4.0 Demand 12,76 1,5 19,05 18,39 140,14 14,85 1,467 143,52 14,67 1,362 4.0 Demand 12,76 1,5 19,05 18,39 140,73 14,39 1,366 4.0 Demand 12,76 1,5 19,05 18,39 143,73 14,39 1,366 4.0 Demand 12,76 1,5 19,05 18,39 140,73 14,39 1,366 4.0 Demand 12,76 1,5 19,05 18,13 138,21 14,13 1,365 4.0 Demand 12,76 1,5 19,05 18,13 138,21 14,13 1,365 4.0 Demand 37,16 1,5 55,48 16,40 121,30 12,40 1,366 4.0 Demand 37,16 1,5 55,48 16,40 121,30 12,40 1,366 4.0 Demand 37,16 1,5 59,37 15,47 112,17 11,47 1,368 4.0 Demand 106,32 1,5 158,74 15,09 106,50 11,09 1,372 8.0 Demand 20,91 1,5 120,63 23,96 195,11 19,95 1,372 8.0 Demand 20,91 1,5 31,22 32,56 240,21 24,56 1,372 8.0 Demand 30,42 1,5 45,42 37,92 292,70 292,73 376 4.0 Demand 30,42 1,5 45,42 37,92 292,70 292,73 376 7.0 Demand 30,42 1,5 45,42 37,92 292,70 292,73 376 7.0 Demand 30,42 1,5 45,42 37,92 292,70 292,73 376 7.0 Demand 30,42 1,5 45,42 37,92 292,70 292,73 376 7.0 Demand 30,42 1,5 45,42 33,53 34,64 24,35 34,54 34,54 34,54 34,54 34,54 34,54 34,54 34,54 34,54 34,54 34,54 34,54	J-351-	5.0	Demand	6.58		9.82			
1,3354	J-352-	5.0	Demand	6.58					
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J-356- J-357- J-358- J-357- J-358- J-357- J-358- J-360- J-360- J-361- J-361- J-361- J-361- J-361- J-362- J-361- J-362- J-361- J-362- J-361- J-362- J-361- J-362- J-363- J-361- J-363- J-361- J-361- J-362- J-361- J-362- J-361- J-362- J-361- J-363- J-361- J-				6.58	1.5	9.82	19.35	140.34	14.35
J-3567					1.5	19.65	20.12	157.64	16.12
J-9586								150.08	15.34
J-359						9.82	19.33	149.99	15.33
J-360-								135.39	13.84
J-361-								132.60	13.56
J-362-									14.67
J-363- J-364- J-364- J-365- J-365- J-366- J-367- J-367- J-369- J-371- J-372- B-0 Demand 21.75- J-372- B-0 Demand 20.91- J-372- B-0 Demand 20.91- J-373- B-0 Demand 30.42- J-55- J-375- B-0 Demand 30.42- J-55- J-376- J-0 Demand 17.90- J-376- J-0 Demand 14.60- J-5- J-377- J-0 Demand 14.60- J-5- J-377- J-0 Demand 14.60- J-5- J-378- B-0 Demand 14.60- J-5- J-379- J-379- J-379- J-370- J-370- J-370- J-370- J-380- J-380- J-0 Demand 14.60- J-5- J-0 Demand 14.60- J-5- J-0 Demand 14.60- J-5- J-0 Demand 14.60- J-5- J-0 Demand 1									14.84
J-364- 4.0 Demand 12.76 1.5 19.05 18.13 138.21 14,13 J-366- 4.0 Demand 25.53 1.5 38.12 16.86 125.64 12.86 J-366- 4.0 Demand 37.16 1.5 55.48 16.40 121.30 12.40 J-367- 4.0 Demand 53.16 1.5 79.97 15.47 112.17 11.47 J-368- 4.0 Demand 106.32 1.5 158.74 15.09 108.50 11.09 J-370- 4.0 Demand 80.80 1.5 120.63 23.95 195.11 19.95 J-371- 8.0 Demand 20.75 1.5 32.47 29.74 212.66 21.74 J-372- 8.0 Demand 20.91 1.5 31.22 32.56 240.21 24.56 J-373- 8.0 Demand 30.42 1.5 45.42 37.92 292.70 29.92 J-374- 8.0 Demand 17.90 1.5 26.72 43.70 349.21									
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J-383- 5.0 Demand 21.16 1.5 31.59 25.61 201.63 20.61 J-384- 4.0 Demand 21.16 1.5 31.59 25.36 208.91 21.36 J-385- 5.0 Demand 27.73 1.5 41.40 19.10 137.96 14.10 J-386- 5.0 Demand 27.73 1.5 41.40 17.50 122.28 12.50 J-387- 5.0 Demand 27.73 1.5 41.40 18.21 129.18 13.21 J-388- 5.0 Demand 27.73 1.5 41.40 19.20 138.91 14.20 J-389- 5.0 Demand 27.73 1.5 41.40 18.56 132.67 13.56 J-390- 5.0 Demand 27.73 1.5 41.40 20.29 149.59 15.29 J-391- 5.0 Demand 27.73 1.5 41.40 21.72 163.55 16.72 J-392- 5.0 Demand 27.73 1.5 41.40 20.23 148.99 <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td>					+				
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J-393- 5.0 Demand 27.73 1.5 41.40 28.03 225.28 23.03 J-394- 6.0 Demand 21.09 1.5 31.49 41.85 350.71 35.85		5.0	Demand	27.73	3 1.5	41.40		_	
J-394- 6.0 Demand 21.09 1.5 31.49 41.85 350.71 35.85					1.5				
		6.0	Demand	21.09	1.5	31.49			
10 000 Otolmonium terral trail Tra	J-395-							3 245.8	25.13

Node Label	Elevation	Demand		Demand		Calculated	Pressure	Pressure
110de Label	Liovation	Туре		Pattern		Hydraulic Grade		Head
	(m)	.,,,,,	(l/s)		(l/s)	(m)	(kPa)	(m)
J-396-		Demand	26.20	1.5	39.12	33.87	287.26	29.37
J-397-1		Demand	24.81	1.5	37.04	30.70		26.00
J-397-2		Demand	0.00	Fixed	0.00	31.03		26.33
J-398-		Demand	24.81	1.5	37.04	29.81	242.70	24.81
J-399-		Demand	24.81	1.5	37.04	27.71	222.18	22.71
J-400-		Demand	0.00	1.5	0.00	12.56		
J-401-		Demand	43.05	1.5	64.27	35.35		30.35
J-402-		Demand	43.05	1.5	64.27	33.48		22.48
J-403-		Demand	43.05	1.5	64.27	31.92		
J-404-		Demand	43.05		64.27	30.67		
J-405-		Demand	36.36		54.29	30.49	. 	24.49
J-406-		Demand	29.67	1.5	44.30	27.82		
J-407-		Demand	29.67	1.5	44.30	25.69		
J-408-		Demand	38.21	1.5	57.05			
J-409-		Demand	46.75		69.80	22.64		
J-410-		Demand	46.75		69.80	21.30		
J-411-	•	Demand	46.75		69.80	19.05		
J-412-		Demand	66.88		99.85	18.73		
			87.01	1.5	129.91	16.15		
J-413- J-414-		Demand Demand	21.75	1.5	32.47	17.30		
		Demand	43.50		64.95	16.38		
J-415-			36.36		54.29	26.45		_
J-416-		Demand Demand	36.36		54.29			-
J-417-	+				54.29			
J-418-		Demand	36.36					
J-419-		Demand	29.67	1.5 1.5	44.30 44.30			
J-420-		Demand	29.67					
J-421-		Demand	29.67		44.30			
J-422-		Demand	29.67		44.30			
J-423-		Demand	29.67	1.5	44.30			
J-424-		Demand	29.67		44.30			
J-425-		Demand	29.67		44.30			
J-426-	<u> </u>	Demand	29.67		44.30			
J-427-		Demand	29.67		44.30			
J-428-		Demand	46.75		69.80			16.28
J-429-		Demand	46.75		69,80			
J-430-		Demand	46.75		69.80			
J-431-		Demand						
J-432-		Demand	87.01		129.91			•
J-433-		Demand	14.30		21.35			
J-434-		Demand	14.30					
J-435-		Demand	14.30		21.35			
J-436-		Demand	14.30					
J-437-		Demand	33.31					
J-438-		Demand	52.33					
J-439-	<u> </u>	Demand	42.76					1
J-Fatehabad		Demand	0.00		0.00			
J-FatehabadIRP		Inflow	526.16					
J-FatPS		Demand	0.00		0.00			
J-KalurghatBPS		Demand	0.00					
J-KalurghatIRP		Inflow	789.24	+				
J-Karnaphuli		Demand	0.00			****		
J-KarnaphuliWTP		Inflow	3157.00		1			
J-KarPS	5.0	Demand	0.00					
J-Khu-1	28.0	Demand	0.00		0.00			
J-Khu-2	28.0	Demand	0.00	Fixed				
J-KhuPS		Demand		Fixed	0.00			
J-Mad2	2.0	Demand	0.00	Fixed	0.00	5.91	38.26	3.91

Node Label	Elevation	Demand	Demand	Demand	Calculated	Calculated	Pressure	Pressure
		Type		Pattern	Demand	Hydraulic Grade		Head
	(m)		(l/s)		(l/s)	(m)	(kPa)	(m)
J-Mad2-PS	5.0	Demand	0.00	Fixed	0.00	36.59	309.05	31.59
J-Mad2WTP	5.0	Inflow	526.16	Fixed	-526.16	5.98	9.61	0.98
J-MadunaghatWTP	90.0	inflow	526.16	Fixed	-526.16	286.33	1,920.48	196.33
J-Mohara	2.0	Demand	0.00	Fixed	0.00	3.72	16.85	1.72
J-MoharaWTP	6.0	Inflow	1052.31	Fixed	-1,052.31	4.00	-19.53	-2.00
J-MohPS	5.0	Demand	0.00	Fixed	0.00	75.44	689.05	70.44
J-N Mohara	2.0	Demand	0.00	Fixed	0.00	4.29	22.38	2.29
J-N MoharaWTP	6.0	Inflow	1052.31	Fixed	-1,052.31	4.52	-14.44	-1.48
J-Nas1	23.0	Demand	0.00	Fixed	0.00	26.95	38.64	3.95
J-Nas2	23.0	Demand	0.00	Fixed	0.00	27.08	39.95	4.08
J-NasPS	20.0	Demand	0.00	Fixed	0.00	53.31	325.84	33.31
J-NasTPS	20.0	Demand	0.00	Fixed	0.00	47.16	265.66	27.16
J-NMoPS	5.0	Demand	0.00	Fixed	0.00	83.86	771,39	78.86
J-PatBPS1	5.0	Demand	0.00	Fixed	0.00	37.48	317.74	32.48
J-PatBPS2	5.0	Demand	0.00	Fixed	0.00	37.29	315.83	32.29
J-Patenga	1.0	Demand	0.00	Fixed	0.00	3.29	22.43	2.29
J-SalimpurPS	20.0	Demand	0.00	Fixed	0.00	61.86	409.50	41.86

Basic Plan Phase 2 (2010) Extended Period Analysis: 9.0 hr / 72.0 hr Pipe Report

Pipe Report											
Link Label	Start Node	End Node	Length		Material	Rough- ness	Current Status		Headloss	Friction Slope	
			(m)	(mm)		С		(I/s)	(m)	(m/km)	(m/s)
P-1T	J-MohPS	J-1T	850.0		Ductile Iron		Open	1,157.08	0.81	0.95	1.02
P-2T	J-1T	J-2T	535.0		Ductile Iron	110	Open	1,157.08	0.51	0.95	1.02
P-3T	J-2T	J-3T	535.0		Ductile Iron		Open	1,157.08	0.51	0.95	1.02
P-4T	J-3T	J-4T	520.0	900	Ductile Iron		Open	1,157.08	2.02	3.88	1.82
P-5T	J-4T	J-5T	880.0	900		110	Open	1,157.08	3.41	3,88	1.82
P-6T	J-5T	J-6T	835.0		Ductile Iron		Open	1,157.08	3.24	3.88	1.82
P-7T	J-6T	J-7T	2,015.0	900		110		1,157.08	7.81	3.88	1.82
P-8T	J-7T	J-8T	970.0	900		110		1,157.08	3,76	3.88	1.82
P-9T	J-8T	J-9T	920.0	900		110	Open	1,157.08 813.75	3.57 2.26	3.88 2.02	1.82 1.28
P-10T P-11T	J-9T J-10T	J-10T J-11T	1,118.0 940.0	1	Ductile Iron		Open	886.01	2.20	2.37	1.39
P-11T	J-11T	J-12T	918.0		Ductile Iron		Open	640.99	1.19	1.30	1.01
P-13T	J-12T	J-13T	455.0	900			Open	0.00	0.00	0.00	0.00
P-14T	J-13T	T-Battali Hill	735.0			110	Closed	0.00	0.00	0.00	0.00
P-15T	J-12T	J-14T	560.0	600		110		640.99	5,24	9,36	2.27
P-16T	J-14T	J-15T	555.0		Ductile fron		Орел	251.73	0.92	1.66	0.89
P-17T	J-15T	J-16T	1,125.0		Ductile Iron	110		251.73	1.87	1.66	0.89
P-18T	J-16T	J-17T-1	150.0	600			Open	0.00	0.00	0.00	0.00
P-20T	J-18T	J-19T	1,227.5	750			Open	337.64	1.18	0.96	0.76
P-21T	J-19T	J-20T	704.0		Ductile Iron	110	Open	337.64	2.01	2.86	1.19
P-22T	J-20T	J-21T1	704.5	600			Open	189.00	0.69	0.98	0,67
P-23T1	J-21T1	TCV-17-In	5.0			110		0.00	0.00	0.00	0.00
P-23T2	TCV-17-Out	J-21T2	5.0		Ductile Iron	110		0.00	0.00		0.00
P-23T3	J-21T2	J-22T	580.0				Open	383.21	2.10	3.61	1.36
P-24T	J-22T	J-23T	1,535.0	600		110		383.21	5.55	3.61	1.36
P-15	J-225-	J-226-	650.0		Asbestos Cem	110		397.40	2.51	3.87	1.41
P-16	J-226-	J-375-	570.0				Open	354.85	1.79	3.13	1.26
P-17	J-375-	J-374-	80.0	300	Asbestos Cem	110	Open	68.53	0.35	4.38	0.97
P-18	J-374-	J-373-	245.0	300	Asbestos Cem	110	Ореп	164.67	5.43	22.15	2.33
P-19	J-373-	J-372-	440.0	300	Asbestos Cem	110	Open	119.25	5.37	12.19	1.69
P-20	J-372-	J-371-	405.0	300	Asbestos Cem	110	Open	88.03	2.82	6.95	1.25
P-21	J-371-	J-339-	100.0	300	Asbestos Cem	110	Open	32.47	0.11	1.10	0.46
P-22	J-339-	J-338-	230.0	300	Asbestos Cem	110	Closed	0.00	0.00	0.00	0.00
P-23	J-337-	J-338-	1,135.0	450	Asbestos Cem	110	Open	54.88	0.46	0.40	0.35
P-24	J-337-	J-335-	290.0	450	Asbestos Cem	110	Closed	0.00	0.00	0.00	0,00
P-25	J-335-	J-336-	290.0		PVC	130		20.32	0.71	2.44	0.65
P-26	J-333-	J-335-	650,0			110		58.72	0.30	0.46	0.37
P-27	J-333-	J-334-	1,040.0	200	, 	130		19.93	2.45	2.36	0.63
P-28	J-331-	J-333-	570.0			110		138.03	1.26	2.22	0.87
P-29	J-330-	J-331-	400.0		Asbestos Cem	110	Open	207.41	1.88	4.71	1.30
P-32	J-316-	J-317-	500.0		PVC	130		57.90	8.47	16.94	1.84
P-33	J-318-	J-316-	250.0	450	, 	110		276.98	2.01	8.05	1.74
P-35	J-319-	J-318-	2,120.0			110		62.06	7.72	3.64	0.88
P-36	J-321-	J-319-	430.0	300		110		67.62	1.84	4.27	0.96
P-37	J-319-	J-320-	430.0	200		130	Open	28.68	1.99	4.62	0.91
P-41	J-314-	J-313-	670.0		Ductile Iron	110	Open	103.88	0.22	0.32	0.37 0.16
P-42	J-313-	J-310-	1,160.0				Open	45.98	0.08	0.07	0.00
P-43	J-301-1	J-310-	1,121.0			110 110	Closed	0.00 340.60	0.00 3.41	2.91	1.20
P-44	J-293-2	J-301-1	1,175.0		Ductile Iron PVC	130	Open Open	40.12	0.73	8.59	1.28
P-45-1	J-311-	J-312- J-311-	85.0 450.0		PVC		Open	22.85	1.37	3.03	0.73
P-45-2 P-46	J-309- J-299-	J-309-	595.0	,	PVC		Open	24.30	2.02		0.77
P-47	J-299-	J-300-	400.0		PVC		Open	22.34	1.16		0.71
P-48	J-298-	J-299-	430.0		PVC		Open	42.34	4.08	9.49	1.35
P-49	J-296-	J-298-	500.0		Asbestos Cem		Open	87.15	3.41	6.83	1.23
P-50	J-296-	J-297-	310.0		PVC		Ореп	22.34	0.90		0.71
P-51	J-295-	J-296-	135.0		Asbestos Cem		Open	98.91	1.16		1.40
P-52	J-294-	J-295-	50.0		Asbestos Cem		Open	110.08	0.53		1.56
P-54	J-294-	J-220-	215.0		Asbestos Cem		Closed	0.00	0.00		0.00
P-55	J-218-	J-220-	640.0		Asbestos Cem		Open	22.34	0,35		0.32
P-56	J-218-	J-219-	245.0		PVC		Open	42.55	2.35	9.58	1.35
P-57	J-188-	J-218-	30.0		Asbestos Cem		Open	81.68	0.18	6.05	1.16
P-58	J-188-	J-144-	1,640.0		Asbestos Cem		Open	27.47	1.32	0.81	0.39
P-59	J-144-	J-143-	865.0		Asbestos Cem		Closed	0.00	0.00		0.00
P-60	J-112-	J-143-	515.0		Asbestos Cem		Open	22.34	0.28	0.55	0.32
P-62	J-106-	J-107-	875.0	200	PVC		Open	17.59	1,64	1.87	0.56
P-63	J-103-	J-106-	325.0		PVC		Open	11.56	0.28	0.86	0.37
P-64	J-102-	J-103-	835.0		PVC		Open	20.83	2.13		0.66
P-65	J-102-	J-101-	880.0		PVC		Open	25.46	3.26		0.81
P-66	J-101-	J-100-	520.0		PVC		Open	22.98	1.59		0.73
P-75	J-104-	J-105-	925.0		PVC		Open	28.41	4.20		0,90
P-76	J-104-	J-103-	210.0		PVC		Open	0.51	0.00		0.02
P-84-1	J-118-1	J-118-2	132.0		PVC		Closed	0.00	0.00		0.00
P-84-2	J-118-2	J-119-	923.0		PVC		Open	12.40	0.90		0.39
P-85	J-119-	J-120-	760.0		PVC		Open	8.67	0.38		0.28
P-86	J-115-		435.0		Asbestos Cem		Open	. 500.10	2.57	5.91	1.77
P-87	J-122-	J-131-	975.0		Asbestos Cem		Open	549.19			1.94
P-88	J-131-	4 7-4	100.0		Asbestos Cem		Open	3785			
P-89	J-137-	J-138-	80.0	300	Ashestos Cem	110	Closed	0.00	0.00	0.00	0,00

Pipe Report Current Discharge Headloss Friction Velocity End Node Rough-Length Diameter Link Label Start Node Status Slone (m/s) (m/km) Asbestos Ce Open 36.59 0.32 1.37 0.52 230.0 110 J-138 P-90 J-139-0.70 2.40 325.0 300 Asbestos Cer 110 Open 49.56 0.78 J-139-J-140-P-91 2.15 7.30 1.28 90.38 295.0 300 Ashestos Cerr 110 Open J-140-J-141-P-92 112.71 1.81 10.99 1.59 110 Open J-141-165.0 300 Asbestos Cer J-142-P-93 0,00 0.00 0.00 0.00 110 Closed J-148 465.0 300 Asbestos Cen J-147 P-95 0,23 0.31 0.23 110 Open 16.30 P-96 J-149-J-148-735.0 300 Asbestos Cen 7.30 0.14 0,37 0.23 130 Open 390.0 200 PVC J-149 J-150-200 PVC 130 Open 9.23 0.57 0.57 0.29 1,000.0 J-151-J-150 P-98 390.0 200 PVC 130 Open 24.78 1.37 3.52 0.79 P-99 J-152 J-151-0.44 1.83 0.61 300 Asbestos Cen 110 Open 42.82 240.0 J-149-P-100 J-153 3.14 4.08 0.93 770.0 300 Asbestos Cen 110 Open 65.96 J-153₂ P-101 J-154 0.95 2,01 0.64 45.04 110 Open 470.0 300 Asbestos Cen J-154 J-155 P-102 1.01 8.08 1.05 110 Open 32.83 J-156 J-155-125.0 200 Asbestos Cer P-103 0,91 1.04 0.41 12.84 130 Open J-156 870.0 200 PVC J-157 P-104 16.90 1.88 1.74 0.54 200 PVC 130 Open 1,080.0 J-158 J-157 P-105 0.67 200 PVC 130 Open 21.18 1.54 2.64 585.0 J-159-J-158 P-106 110 Open 0.34 1.75 0.46 195.0 200 Asbestos Cer 14.35 P-107 J-156-J-166 0.00 0,00 1,005.0 300 Ductile Iron 110 Closed 0.00 0.00 J-167 P-108-1 J-166-13.65 28.43 2.67 188.46 110 Open 480.0 300 Ductile Iron J-167 J-168 P-108-2 38.42 0.69 1.50 0.54 110 Open J-168-J-170 460.0 300 Asbestos Cer P-109 2.67 0.88 27.73 4.34 J-169 615.0 200 PVC 130 Open J-170-P-110 1.67 1.87 0.61 110 Open 43.24 300 Asbestos Cen J-171-895.0 J-170-P-111 300 Asbestos Cen 110 Open 10.54 0.05 0.14 0.15 J-171 .1-173-385.0 P-112 110 Open 39,60 1.29 1,59 0.56 300 Asbestos Cer 810.0 P-113 J-173 J-174-0.18 130 Open 5,58 0.07 0.22 300.0 200 PVC P-115 J-174-J-175-0.05 0.02 130 Open 1.67 0.01 570.0 200 PVC J-172 P-116 J-173 1.51 0.50 1.74 15.67 1,150.0 200 PVC 130 Open J-172-P-117 J-170-5.14 0,01 0.04 0.07 195.0 300 Asbestos Cen 110 Open J-179-P-120 J-178-17.19 110 Open 0.08 0.34 0.24 300 Asbestos Cen J-<u>179</u>-245.0 J-181-P-121 110 Open 23.32 0,03 0.60 0.33 300 Asbestos Cen J-184 I-181-50.0 P-122 28.02 0.19 0.84 0.40 110 Open 300 Asbestos Cen P-123 J-185 J-184-230.0 110 Open 300 Asbestos Cen 40.13 0.27 1.63 0.57 J-186-J-185-165.0 P-124 0.80 300 Asbestos Cer 110 Open 56.42 0.20 3.05 65.0 P-125 J-186-J-190-1.36 0.46 0.52340.0 300 Asbestos Cer 110 Open 36,50 J-191-P-126 J-190-0.69 0.36 0.23 340.0 300 Asbestos Cerr 110 Open 25.25 J-192 P-127 J-191 13.99 0.06 0.23 0.20 275.0 300 Asbestos Cerr 110 Open J-193-P-128 J-192-0,00 0.01 0.04 2.73 110 Open 355.0 300 Asbestos Cerr J-193 J-210-P-129 23.50 0.60 0.33 0.20 110 Open J-210 J-213 335.0 300 Asbestos Cer P-131 27.48 5.67 5.81 0.87 110 Open _ J-178 975.0 200 Asbestos Cer J-142 P-132 5.52 0.12 0.30 0.18 405.0 200 Asbestos Cerr 110 Open J-180 J-181 P-133 110 Open 200 Asbestos Cen 23.17 1.50 4.24 0.74 355.0 . I-140 J-180 P-134 110 Open 7.40 0.02 0.07 0.10 275.0 300 Asbestos Cer P-135 J-183 J-184 20.37 0.23 0.46 0.29 300 Asbestos Cen 110 Open J-183-500,0 P-136 J-182 1.15 0.47 0.25110 Open 33.35 J-182-215.0 300 Asbestos Cen J-138 P-137 0,00 0.00 0.00 0.00 110 Closed J-192-J-194 325.0 200 Asbestos Cer P-138 0.41 1.28 0.39 110 Open 12,11 J-194-325.0 200 Asbestos Cen J-195 P-139 21.40 2.78 3.66 0.68 110 Ореп 760.0 200 Asbestos Cer J-196 J-195 P-140 200 PVC 130 Open 34.37 1.03 6.46 1.09 J-132 J-196-160.0 P-141 130 Open 34 61 1.37 6.54 1.10 210.0 200 PVC P-142 L-137 J-197 0.04 0.84 0.40 300 Asbestos Cer 110 Open 28.13 50.0 P-143 J-197-J-198 3.46 0.85 300 Asbestos Cer 110 Open 60.39 1.13 325,0 J-199 P-144 J-198 0.72 2,21 0.67 47.42 110 Open J-200-325.0 300 Asbestos Cen J-199 P-145 0.04 2,60 0.00 0.01 130.0 300 Asbestos Cen 110 Open J-200 J-201 P-146 0.71 22.42 1.67 3.99 110 Open J-202 420.0 200 Asbestos Cei J-201 P-147 110 Open 3.35 0.03 0.12 0.11 200 Asbestos Cer J-203 275.0 -148 J-202 29.48 0.86 6.62 0.94200 Asbestos Cen 110 Open 130.0 P-149 J-238 J-203 110 Open 244.83 1.15 1.58 0.87 730.0 600 Asbestos Cer P-150 J-135 J-238 110 Open 1.69 0.58 300 Asbestos Cer 41.03 0.30 180.0 J-201 P-151 J-135 1.07 600 Ashestos Cen 110 Open 301.88 1.81 2,32 J-135 780.0 P-152 J-134 0.27 0.55 1.52 180.0 300 Asbestos Cen 110 Open 38.74 J-198-P-153 J-134 353.60 0,50 3.11 110 Open 160.0 600 Asbestos Cer J-134 J-132 P-154 0.45 3,90 1.42 110 Open 400.94 J-132-115.0 600 Asbestos Cer J-130-P-155 110 Open 141.99 16.84 2.01 0.34 300 Asbestos Cer J-130 20.0 P-156 J-131 265.06 7.20 7.42 1.67 11<u>0</u> Open .1-130-970.0 450 Asbestos Cen P-157 J-123 110 Open 346.40 1.22 12.17 2.18 450 Asbestos Cen 100.0 P-158 J-121 J-123 110 Open 56.29 3.01 3.04 0.80 990.0 300 Asbestos Cen P-163 J-133 J-136 0.62 300 Asbestos Cen 110 Open 44.07 1.35 1.93 700.0 P-164 J-239 J-136 0.00 300 Asbestos Cen 110 Closed 0.00 0.00 0.00 405.0 J-248-P-165 J-239 0.54 1.49 38,32 0.29 J-247 195.0 300 Asbestos Cen 110 Open P-166 J-248 1.04 4.26 0.96 110 Open 67.53 245.0 300 Asbestos Cer J-247 J-255 P-167 0.91 3,93 0.92 64.71 110 Open J-255 J-256-230.0 300 Asbestos Cen P-168 110 Open 122.28 2.94 12.77 1.73 230.0 300 Asbestos Cen J-256 J-258-P-169 110 Open 38.85 0.24 1.53 0.55 300 Asbestos Cerr J-258 160.0 J-260-P-170 200 PVC 130 Open 51.75 3.99 13.76 1.65 290.0 P-171 J-258 J-259-0.00 20,0 600 Asbestos Cen 110 Closed 0.00 0.00 0.00 P-172 J-238-J-237-2.07 1.00 600 Asbestos Cer 110 Open 283.65 0.20 95.0 J-236 P-173 J-237 0.94 600 Asbestos Cen 265.52 0.38 1,83 210.0 110 Open J-240 P-174 J-236 1.39 13.60 43.51 5.71 420.0 200 Asbestos Cer 110 Open J-243-P-175 J-240-5.75 1.03 130 Open 32.28 1.70 295.0 2001PVC J-243-1 J-241-2 P-176 7.23 36,55 2.82 1.16 200 PVC 130 Open 390.0 P-177 J-241-2 J-244 110 Open 50.61 0.09

160.0

J-240

J-250

P-178

600 Asbestos Cem

Pipe Report End Node Rough Current Discharge Headloss Friction Velocity Link Label Start Node Length Diameter (m/km) (m/s) Ú.Ú Ú,Ú4 P-179 J-251 J-253 160.0 450 Asbestos Ce 110 Open 237.23 0.97 6.04 1.49 J-251 J-249 P-181 150.0 300 Asbestos Cen 110 Open 72.46 0.734.85 1.03 J-248 110 Open 4.96 P-182 J-249 J-252 195.0 200 Asbestos Cen 25.21 0.97 0.80 0.55 0.32 110 Open 22.39 0.04 P-183 J-252-J-253-65.0 300 Asbestos Cer 110 Open 41.76 0.59 300 Ductile Iron 0.52 1.75 P-184 J-254-J-250-295.0 251.73 1.99 6.74 1.58 295.0 450 Ductile Iron 110 Open P-186 J-16T J-251 100.0 450 Asbestos Cer 110 Open 100.49 0.12 1.23 0.63 P-191 J-249 J-235 J-233-280.0 200 Asbestos Cen 110 Open 17.48 0,70 0.56 P-192 J-235 200 Asbestos Cer 110 Open 28.67 1.76 6.29 0.91 P-193 J-232-280.0 J-233 200 Asbestos Cen 260.0 110 Open 14 33 0.45 1.74 0.46 P-194 J-232-J-231-J-234 P-195 210.0 200 Asbestos Cen 110 Open 17.41 0.52 2.50 0.58 J-235 P-196 J-234 J-233-200.0 200 Asbestos Cen 110 Open 10.02 0.18 0.90 0.32 110 Open 15.50 0.92 2.02 0.49 P-197 J-236-J-233-455.0 200 Asbestos Cem 85.0 200 Asbestos Cerr 110 Closed 0.00 0.00 0.00 0.00 P-198 J-234 J-276-J-276-115.0 200 Asbestos Cerr 110 Open 41.49 1.43 12.46 1.32 P-199 J-230 110 Open J-230-420.0 300 Asbestos Cen 77.30 2.30 5.47 1.09 P-200 J-223 300 Asbestos Cer 110 Open 340.0 16.69 0.11 0.320.24P-201 J-223-J-224 J-213-220.0 300 Asbestos Cer 110 Closed 0.00 0.00 0.00 0.00 J-224 110 Open 0.17 0.44 P-203 J-213 J-214 375.0 200 Asbestos Cen 6.81 0.22 P-204 J-215-J-214-290.0 200 Asbestos Cen 110 Open 7.52 0.15 0,53 0.24 130 Open 22.43 0.47 2.93 0.71 200 PVC P-205 J-230 J-229-160,0 200 PVC 130 Open 9.06 0.25 0.55 0.29 455.0 P-206 J-229-J-228-0.60 115.0 200 Asbestos Cen 110 Open 18.87 0.33 2.90 J-228-P-207 J-227 110 Open Asbestos Cen 33.20 2.68 8.25 1.06 J-227-325.0 200 P-208 J-223 300 Asbestos Ce 110 Open 465.0 29.07 0.42 0.90 0.41 P-209 J-276-J-275-P-210 J-275 J-274-130.0 200 PVC 130 Open 7.61 0.05 0.40 0.24 P-211 J-279-150.0 300 Asbestos Cen 110 Open 30.72 0.15 0.99 0.43 J-275 18.29 1.62 2.74 0.58 110 Open P-212 J-279 J-280-590.0 200 Asbestos Cer 510.0 200 Asbestos Cen 110 Open 0.60 0.00 0.01 0.02 P-213 J-280-J-281-65.48 1.45 50.0 200 Asbestos Cen 110 Open 28.97 2.08 P-214 J-282 J-281-200 Asbestos Cen J-288-1,020.0 110 Open 9.19 0.78 0.77 0.29 P-215 J-282-110 Open 670.0 200 Asbestos Cer 15.69 1.38 2.06 0.50 J-288 J-291-P-216 450 Asbestos Cer P-217 J-291 J-269 1.450.0 110 Open 109.12 2.08 1.44 0.69 J-266 650.0 450 Asbestos Сел 110 Closed 0.00 0.00 0.00 0.00 P-218 J-269-300 Asbestos Cen P-220 J-256-J-262-260.0 110 Open 44.55 0.51 1.97 0.63 36,94 0,52 P-221 300 Asbestos Cen 1,39 J-262-J-263 615.0 110 Open 0.864.71 110 Open 1.91 0.78 405.0 200 Asbestos Cen 24.52 P-222 J-263-J-261-7.17 0.09 0.48 0.23 200 Asbestos Cem 110 Open P-223 J-260-J-261-195.0 30.0 300 Asbestos Cerr 110 Closed 0.00 0.00 0.00 0,00 P-224 J-263-J-267-730.0 200 PVC 130 Open 11.98 0.67 0.92 0.38 J-272-P-225 J-267 130 Open 10.98 0.19 0.78 0.3 J-2**72**-245.0 200 PVC P-226 J-273 14.00 J-273 275.0 200 Asbestos Cer 110 Open 44.19 3.85 1.41 P-227 J-281 0.93 0.42P-22B J-268 J-267 585.0 300 Asbestos Cen 110 Open 29.67 0.54 3.06 0.80 56.49 0.80 P-229 J-268-J-270-260.0 300 Asbestos Cen 110 Open 33.52 0.23 0.4 300 Asbestos Cer 110 Open 1.17 P-230 J-270-J-271-195.0 0.00 130 Open 0.16 0.00 0.01 680.0 200 PVC P-231 J-271-J-273-115.0 200 Asbestos Cem 110 Open 27.54 0.67 5.84 0.88 J-246-P-232 J-247-130.0 200 Asbestos Cer 110 Open 31.32 0.96 7.40 1.00 J-246 J-248-P-233 275.0 200 PVC 130 Open 56.04 4.39 15.95 1.78 P-234 J-246-J-245 180.0 200 PVC 130 Open 16.92 0.31 1.74 0.54 P-235 J-243-1 J-245 P-236 J-204-J-237-325.0 600 Asbestos Cer 110 Open 285.25 0.68 2.09 1.01 2.13 P-237 J-205-J-204 500.0 600 Asbestos Cen 110 Open 288.07 1.07 1.02 110 Open 304.09 1.72 1.08 P-238 J-209-J-205 730.0 600 Asbestos Cer 2.36 110 Open 33.99 0.91 1.20 0.48 760.0 300 Asbestos Cer P-240 J-200-J-206 110 Closed 0,00 130.0 300 Asbestos Cen 0.00 0.00 0,00 P-241 J-206-J-208 110 Open 19.07 0.16 0.41 0.27 390.0 300 Asbestos Cer J-210-J-208 P-242 405.0 110 Ореп 21.89 1.55 3.82 0.70 J-203-J-221 200 Asbestos Cer P-243 210.0 200 Asbestos Ce 110 Open 10.94 0.22 1.06 0.35 P-244 J-221-J-222 405.0 200 Asbestos Cen 110 Closed 0.00 0.00 0.00 0.00 P-245 J-222 J-223 110 Open 14.93 0.24 1.88 P-246 J-206 J-207-130.0 200 Asbestos Cen 0.48 0.04 0.09 200 Asbestos Cen 110 Open 2.82 0.09 P-247 J-207-J-195-490.0 21.68 0.18 0.52 0.31 355.0 300 Asbestos Cer 110 Open P-248 J-277-J-275 110 Open 34,11 0.69 1,20 0.48 570.0 P-249 J-278 J-277 300 Asbestos Cen 200 Asbestos Cen 14.55 1.79 0.46 145.0 110 Open 0.26 J-278 P-250 J-228 110 Open 10.26 0.23 0.94 0.33 J-285-J-278-245.0 200 Asbestos Cer P-251 375.0 200 Asbestos Cer 110 Open 21.51 1.39 3.70 0.68 P-252 J-284-J-285-585.0 200 PVC 130 Open 21.72 1.62 2.76 0.69P-253 J-284 J-278 340.0 300 Asbestos Cerr 110 Open 96,55 2.81 8.25 1.37 P-254 J-284 J-282 181.41 3,16 3,68 1.14 P-258 J-396 J-397-1 860.0 450 Asbestos Cen 110 Open 134.61 0.67 2.12 0.85 P-259 J-396-J-291-315.0 450 Ductile Iron 110 Open 3.07 110 Open 56.58 2.73 0.80 890.0 300 Asbestos Cen P-260 J-396 J-395 520.0 300 Asbestos Cem 110 Open 17.30 0.18 0.34 0.24 J-290-J-395 P-261 130.0 300 Asbestos Cen 110 Open 58.48 0.42 3.26 0.83 J-290 P-262 J-289-110 Open 2.84 300 Asbestos Cen 99,66 8.75 1 41 J-289-325.0 P-263 J-288 300 Asbestos Cer 65.0 110 Closed 0.00 0.00 0.000.00J-395 J-394 P-264 570.0 200 Asbestos Ce 110 Closed 0.00 0.00 0.00 0.00 P-265 J-394 J-290

300 Asbestos Cer

300 Asbestos Cen

200 Asbestos Cen

200 Asbestos Cer

110 Open

110 Open

110 Closed

110 Open

4.37

48.14

0.00

55.12

0.02

1.48

0.00

7.90

0.03

2.28

0.00

21.07

0.06

0.68

0.00

1.75

585.0

650.0

490.0

375,0

P-266

P-267

P-268

P-269

J-379

J-374

J-379-

J-284

J-394

J-379

J-286-

J-286-

Pipe Report

				ipe Repo	<u> </u>						
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
		,	, ,	İ		ness	Status			Slope	
	Ì		(m)	(mm)		С		(l/s)	(m)	(m/km)	(m/s)
P-270	J-284-	J-375-	845.0		Asbestos Cem		Closed	0.00	0.00	0.00	0.00
P-271	J-210-	J-215-	245.0	200			Open	11.66	0.21	0.87	0.37
			1,945.0		PVC		Open	8.66	0.98	0.50	0.28
P-272	J-190-	J-215-									
P-273	J-187-	J-186-	295.0		Asbestos Cem	110		107.81	2.98	10.12	1.53
P-274	J-188-	J-187-	195.0	300	Asbestos Cem		Open	119.07	2.37	12.16	1.68
P-275	J-379-	J-380-	180.0	300	Asbestos Cem	110		110.10	1.89	10,52	1,56
P-276	J-380-	J-381-	405.0	300	Asbestos Cem		Open	88,31	2.83	6.99	1.25
P-277	J-381-	J-382-	585.0	300	Asbestos Cem	110	Open	88.05	4.07	6.96	1.25
P-278	J-382-	J-378-	500.0	200	PVC	130	Open	42.30	4.74	9.48	1.35
P-279	J-378-	J-377-	245.0	200	PVC	130	Open	20.51	0.61	2.48	0.65
P-280	J-376-	J-377-	390.0		PVC	130	Open	1.29	0.01	0.01	0.04
P-281	J-371-	J-376-	650.0	200		130		23.09	2.01	3.09	0.73
P-282	J-338-	J-340-	810.0	200	Asbestos Cem		Open	22.40	3,23	3.98	0.71
	J-344-	J-340-	490.0	200	Asbestos Cem		Open	10.07	0.44	0.91	0.32
P-283			585.0	$\overline{}$	PVC	130		31,89	3.29	5.62	1.01
P-284	J-344-	J-345-									0.52
P-285	J-343-	J-344-	50.0	200			Open	16.31	0.11	2.21	
P-286	J-342-	J-343-	40.0	200	Asbestos Cem		Open	16.31	0.09	2.21	0.52
P-287	J-341-	J-342-	700.0		PVC	130		15.76	1.07	1.53	0.50
P-288	J-341-	J-332-	1,050.0		PVC	130	Closed	0.00	0.00	0,00	0.00
P-289	J-331-	J-332-	90.0	200	PVC	130	Open	20.22	0.22	2.42	0.64
P-290	J-342-	J-350-	490.0	200	Asbestos Cem	110	Open	15.98	1.04	2.13	0.51
P-291	J-350-	J-351-	375.0	200	Asbestos Cem	110	Open	16.49	0.85	2.26	0.53
P-292	J-352-	J-351-	10.0	200	Asbestos Cem	110		5.46	0.00	0.29	0.17
P-293	J-352-	J-353-	405.0		Asbestos Cem		Ореп	19.65	1.27	3.13	0.63
P-294	J-352-	J-355-	165.0	200	PVC		Open	12.26	0.16	0.96	0.39
	 	J-358-	195.0		PVC		Open	3.02	0.01	0.07	0.10
P-295	J-365-		+			130				4.59	0.10
P-296	J-358-	J-359-	325.0		PVC			28.58	1.49		
P-297	J-359-	J-360-	245.0		PVC	130		13.62	0.29	1.16	
P-299	J-362-	J-361-	405.0		PVC	130		7.66	0.16	0.40	0.24
P-300	J-362-	J-363-	260.0		PVC	130		16.83	0.45	1.72	0.54
P-301	J-351-	J-354-	165.0		PVC	130		12.13	0.16	0.94	0.39
P-303	J-354-	J-357-	195.0	200	PVC	130	Open	1.72	0,00	0.03	0.05
P-304	J-356-	J-357-	325.0	200	PVC	130	Open	20.04	0.77	2.38	0.64
P-305	J-350-	J-356-	210.0	200	PVC	130	Open	13.31	0.23	1.12	0.42
P-306	J-356-	J-349-	730.0	200	PVC	130	Open	26.32	2.88	3.94	0.84
P-307	J-349-	J-348-	405,0		PVC	130		4.35	0.06	0.14	0.14
P-308	J-346-	J-348-	245.0		PVC	130		19.96	0.58	2.36	
P-309	J-345-	J-346-	375.0		PVC	130	 	7.58	0.15	0.39	0.24
		J-347-	340.0		Asbestos Cem		Open	41.17	0.58	1.71	0.58
P-310	J-346-							35.57	0.78	1.30	0.50
P-311	J-347-	J-366-	600.0		Asbestos Cem		Open				
P-313	J-366-	J-384-	700.0		Asbestos Cem	110		0.00	0.00	0.00	0.00
P-314	J-383-	J-384-	245.0		Asbestos Cem	110		31.59	0.26		0.45
P-315	J-382-	J-383-	420.0		Asbestos Cem		Open	146.14	7.46	17.76	
P-316	J-383-	J-385-	145.0		Asbestos Cem		Open	82.96	6.51	44.89	2.64
P-317	J-385-	J-386-	490.0	200	Asbestos Cem	110	Open	20.14	1.60	3.27	0.64
P-318	J-387-	J-386-	195.0	200	Asbestos Cem	110	Open	21.26	0.71	3.62	0.68
P-319	J-385-	J-387-	245.0	200	Asbestos Cem	110	Open	21.42	0.90	3.67	0.68
P-320-1	J-388-	J-387-	110.0	200	PVC	130	Open	41.24	0.99	9.04	1.31
P-320-2	J-388-	J-389-	70.0	200	PVC	130	Open	41.40	0.64	9.11	1.32
P-321	J-389-	J-390-	325.0	200	Asbestos Cem	110	Closed	0.00	0.00	0.00	0.00
P-322	J-391-	J-390-	115.0		Asbestos Cem		Open	41.40			1.32
P-323	J-391-	J-392-	120.0		Asbestos Cem		Ореп	41.40			1.32
P-324	J-366-	J-369-	430.0		PVC		Closed	0.00			,
	J-402-	J-403-	350.0		Asbestos Cem		Open	201.39			
P-328								137.12			
P-329	J-403-	J-404-	570.0		Asbestos Cem		Open	72.85			
P-330	J-404-	J-405-	260.0		Asbestos Cem		Open				
P-331	J-405-	J-406-	730.0		Asbestos Cem		Open	181.09			1.14
P-332	J-406-	J-407-	975.0		Asbestos Cem		Open	136.79			
P-333	J-407-	J-408-	535.0		Asbestos Cem		Open	156,15			
P-334	J-408-	J-409-	745.0		Asbestos Cem		Open	133.70			
P-335	J-409-	J-410-	650.0		Asbestos Cem		Open	132.73			
P-336	J-410-	J-411-	780.0		Asbestos Cem		Open	159.06			
P-337	J-411-	J-412-	325.0	450	Asbestos Cem	110	Open	89.26	0.32	0.99	0.56
P-338	J-412-	J-413-	1,300.0	450	Asbestos Cem		Open	129.91	2.58	1.98	0,82
P-339	J-405-	J-416-	780.0		Asbestos Cem		Open	218.46			
P-340	J-416-	J-417-	650.0		Asbestos Cem		Open	164.18			
P-341	J-417-	J-418-	160.0		Asbestos Cem		Open	109,89			
P-342	J-418-	J-430-	2,755.0		PVC		Open	18.99			
	7	J-431-	975.0		PVC		Open	14.25			
P-343	J-430-		_								
P-344	J-431-	J-432-	405.0		PVC		Open	22.82			
P-345	J-418-	J-427-	700.0		PVC		Open	20.18		,	
P-346	J-427-	J-428-	810.0		PVC		Open	15.94			
P-347	J-428-	J-429-	810.0		PVC		Open	22.23			
P-348	J-418-	J-419-	325.0		PVC		Open	45.18			1.44
P-349	J-419-	J-420-	80.0	200	PVC	130	Open	0.88		0.01	0.03
	J-420-	J-421-	325.0	200	PVC	130	Open	44.30	3.35	10.32	1.41
P-350							Open	28.10			
P-350	J-420-	J-422-	295.0	[200	PVC	, ,,,,,,		J 20.10	1.3	4.45	
P-350 P-351	J-420- J-422-	J-422- J-423-									
P-350 P-351 P-352	J-422-	J-423-	325.0	200	PVC	130	Open	44.30	3.35	10.32	1.41
P-350 P-351				200 200		130 130			3.35 0.07	10.32 0.50	1.41 0.28

Link Label Start Node End Node Diameter Material Rough Current Discharge Headloss Friction Velocity Length Slope Status ness (l/s) (m/km) (m/s) (mm) (m)P-357 J-172 130 Open 7.67 0.07 0.40 0.24 J-402 251.5 450 Asbestos Cer 110 Open 265.67 7,45 P-369 J-401-1.87 1.67 J-398 450 Asbestos Cen 110 Open P-371 J-397-1 370.0 144.37 0.89 2.41 0.91 P-382 TCV-8-In J-398 160.0 450 Asbestos Cen 110 Open 0.00 0.00 0.00 0.00 P-383 J-401-TCV-9-In 100.0 450 Asbestos Cen 110 Open 0.00 0.00 0.00 0.00 110 Open P-384 TCV-9-Out J-398-100.0 450 Asbestos Cem 0.00 0.00 0.00 0.00 P-385 J-399 520.0 200 PVC 26.66 4.03 J-398-130 Open 2.10 0.85 TCV-12-Out 450 Asbestos Cen 110 Open 56.38 0.42 P-387 J-314 200.5 0,08 0.35 P-388 J-329-J-330-150.5 450 Asbestos Cem 110 Open 256.57 1.05 6.98 1.61 P-389 J-329-TCV-12-In 219.0 Asbestos Cen 110 Open 56,38 0.09 0.42 0.35 P-391 66.5 450 Asbestos Cen 110 Open 169.91 3.26 J-316 J-315-0.22 1.07 450 Asbestos Cer TCV-13-Out 10.0 110 Open 362.12 0.13 13.21 2.28 P-392 J-329 450 Asbestos Cer P-393 J-315-TCV-13-In 10.0 110 Open 362,12 0.13 13.21 2.28 PMP-DhakaTR-BPS-Out P-394 TCV-14-In 43.5 450 Asbestos Cen 110 Open 0.00 0.00 0.00 0.00 40,0 110 Open 0.00 0.00 P-395 J-315 TCV-14-Ou 450 Asbestos Cen 0,00 0.00 ²-403-1 J-147-465.0 300 Ductile Iron 110 Closed 0.00 0.00 0.00 J-148-0,00 P-404-1 J-154-J-153-770.0 300 Ductile Iron 110 **Ope**n 65.96 3.14 4.08 0.93 0.44 42.82 P-404-2 J-153-J-149 240.0 300 Ductile Iron 110 Open 1.83 0.61 P-413 J-108 950.0 300 Asbestos Ce 110 Open 41.98 1.68 1.77 0.59 J-107 P-414 J-108-J-109-750.0 200 PVC 130 Open 19.56 1.71 2.27 0.62 P-415 J-111-1 J-112-550.0 300 Ashestos Cei 110 Open 32.11 0.59 1.08 0.45 P-416 J-108-J-111-1 200.0 300 Asbestos Cen 110 Open 49.96 0.49 2.44 0.71 10.0 300 Asbestos Cer 110 Closed 0.00 0.00 P-421 J-115-J-112-0.00 0.00 200 PVC P-422 55.0 130 Closed 0.00 0.00 J-111-3 J-117-0.00 0.00 1,000.0 200 PVC 40.02 P-423 J-117-J-124-130 Open 8.55 8.55 1.27 130 Open P-424 J-117-J-118-1 350.0 200 PVC 51.89 4.84 13.83 1.65 P-427 J-314-PMP-DhakaTR-BPS-Ir 300.0 450 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-429 J-315 J-314-385.0 450 Ductile Iron 110 Open 96.66 0.44 0.61 P-431 J-111-2 J-111-3 325.0 200 PVC 130 Open 9.78 0.21 0.630.31 480.0 200 PVC 19.56 2.27 6.15 P-432 J-111-2 J-110-130 Open 1.09 0.62 510.56 P-438 900.0 600 Asbestos Ce 110 Open 1.81 J-114-J-115 5.53 P-440 J-KalurghatBPS 600 Ductile Iron 110 Open 1,184.70 1.60 29.16 J-113-55.0 4.19 135.17 P-442 J-356 J-362 600.0 450 Ductile Iron 110 Open 1.28 2.13 0.85 P-446 J-366 J-367-660.0 Ductile Iron 110 Open 37.21 0.93 1.41 0.53 P-447 J-368 150.0 110 Open 50.67 0.38 2.50 J-367 300 Ductile Iron 0.72 P-453 J-393-J-391 480.0 300 Asbestos Ce 110 Open 124.20 6.31 13.15 1.76 600 Ductile Iron P-481 J-217-1 J-11T 10.0 110 Closed 0.00 0.00 0,00 0.00 P-482 .l-174-J-177-187 (300 Ductile Iron 110 Open 11 69 0.030.17 0.17 P-483 J-177-J-178-483.0 300 Ductile Iron 110 Closed 0,00 0,00 0,00 0.00 10.0 300 Ductile Iron 110 Open 72.26 0.05 4,83 P-485 J-176 J-10T 1.02 140.0 300 Ductile from 110 Open 22.90 P-488 167.66 3.21 J-146-J-142 2.37 P-489 J-146-395.0 300 Ductile Iron 110 Open 6.55 0.02 0.06 0,09 J-147-TCV-2-li 178.0 130 Open 0.47 P-492 200 21,21 2.64 0.68 P-493 TCV-2-Out J-361-72.0 200 PVC 130 Open 21.21 0.19 2,64 0.68 P-494 J-354-TCV-3-lr 2.5 200 PVC 130 Open 0.590.000.00 0.02 P-495 TCV-3-Out J-355 2.5 200 PVC 130 Open 0,59 0,00 0.00 0.02 110 Open 121.25 0.03 12.57 P-497 J-293-1 TCV-4-Out 2.5 300 Aspestos Cen 1.72 110 Open -498 TCV-5-In J-122-5.0 600 Asbestos Cem 71.43 0.00 0.16 0.25 TCV-5-Out P-499 5.0 600 110 Open 71,43 0.00 0.16 Asbestos Cer 0.25 J-123-P-500 J-115-TCV-6-In 82.0 600 Asbestos Cerr 110 Open 0.00 0.00 0.00 0,00 P-501 TCV-6-Ou 116.0 Asbestos Cen 110 Open 0,00 0.00 0.00 0.00 4.0 P-502 TCV-7-In J-111-2 200 PVC 130 Open 39.12 0.03 8.20 P-503 .L.111.1 TCV-7-Out 11.0 200 PVC 130 Open 39.12 0.09 8.20 1.25 1.55 P-505 J-145-J-147-525.0 300 Ductile Iron 110 Open 39.16 0.82 0.55 0.00 P-509 J-225-J-211-552.5 600 Ductile Iron 110 Closed 0.00 0.00 0.00 315.35 257.5 600 110 Open 2.52 1.12 P-510 J-211-J-209 Ductile Iron 0.65 0.67 245.5 300 Ductile Iron 24.86 0.16 P<u>-514</u> J-127-110 Open 0.35 J-124-118.67 P-515 J-127-J-133-209.5 300 Ductile Iron 110 Open 2.53 12.08 1.68 0.00 P-536 J-6T PRV-2-1 20.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 P-537 PRV-2-Out J-104 300 Ductile Iron 110 Open 0.00 0,00 0,00 0.00 225.0 P-538 J-157-J-156-870.0 300 Ductile Iron 110 Open 31.59 0.91 1.04 0.4 P-579 J-293-2 TCV-15-In 5.0 600 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-580 J-293-1 TCV-15-Out 5.0 600 Ductile from 110 Open 0.00 0.00 0.00340.0 P-614 J-370-J-369-200 PVC 130 Open 65.34 7.20 21.19 2.08 770,0 P-615 200 PVC 130 Open 29,59 3.77 4.89 0.94 J-399 J-370-TCV-8-Out P-631 J-400-146.5 450 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 277.49 14.33 P-666 J-Fatehabad PMP-Fat-1-in 5.0 400 Ductile Iron 110 Open 0.07 2.21 277.49 1.56 P-667 PMP-Fat-1-Qu J-FatPS 5.0 400 Ductile Iron 110 Open 312.39 2.2 J-Fatehabad PMP-Fat-2-In 5.0 400 Ductile Iron 110 Open 277.49 0.07 14.33 2.21 P-669 PMP-Fat-2-Ou J-FattPS 5.0 400 Ductile Iron 110 Open 277.49 1.56 312.39 2.21 400 Ductile Iron P-670 J-Fatehabad PMP-Fat-3-in 5.0 110 Open 277.49 0.07 14.33 2.21 1.56 J-FatPS 5.0 277.49 312.39 P-671 PMP-Fat-3-Out 400 Ductile Iron 110 Open 2.21 J-149 735.0 300 Ductile Iron 110 Open 16.30 P-759 J-148 0,31 0.23 0.23110 Open 37.73 0.20 P-863 J-257 J-264 285.5 450 Ductile Iron 0,06 0.24 P-864 434.5 110 Open 197.22 1.87 4.29 J-253-J-257-450 Ductile Iron 1.24 110 Open 17.69 P-868 J-265 J-266-425.5 450 Ductile Iron 0.02 0.05 0.11 450 Ductile Iron 0.04 -869 J-264 J-265 284.5 110 Open 30.11 0.13 0.19 J-Fatehahail P-873 PMP-Fat-4-In 5.0 400 Ductile Iron 110 Open 0,00 0.00 0.00 0.00 P-874 PMP-Fat-4-Out J-FatPS 5,0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-RR2 .I-9T I-145-10.0 300 Ductile Iron 110 Open 343.33 0.86 86.24 4.86

Pipe Report

600 Ductile Iron

654.0

P-917

J-113

J-116

110 Open

654.58

6.36

9.73

2.32

Pipe Report

			P.	ipe Repor	t						
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
			"	1		ness	Status			Slope	
			(m)	(mm)		С		(l/s)	(m)	(m/km)	(m/s)
D 04.5	1440	1 404	196.0		Ductile Iron		Open	356.31	0.62	3.16	1.26
P-918	J-116-	J-121-	_					•		2.90	1.20
P-923	J-292-	J-293-1	20.0		Ductile Iron		Open	340.00	0.06		
P-924	J-292-	J-217-1	785.0	_	Ductile Iron		Open	42.55	0.05	0.06	0.15
P-929	TCV-4-in	J-294-	2.5	300	Ductile Iron	110	Open	121.25	0.03	12.57	1.72
P-932	J-400-	PSV-DmyPat2-In	300.0	450	Ductile Iron	110	Open	434.63	5.56	18.52	2.73
P-933	PSV-DmyPat2-Out	T-Patenga	0.5	450	Ductile Iron	110	Open	434.87	0.01	18.54	2.73
P-934	TCV-16-In	J-23T	5.0		Ductile Iron		Open	520.12	0.13	25.82	3.27
			5.0		Ductile Iron	110	Open	520.12	0.13		3.27
P-935	J-400-	TCV-16-Out								1.71	0.90
P-986	J-159-	J-156-	2,535.0		Ductile Iron	110	Open	255,44	4.33		
P-988	J-176-	J-173-	995.0		Ductile Iron	110	Closed	0.00	0.00		0.00
P-989	PSV-DmyNs1-Out	T-Nas-gr	0.5	1,200	Ductile Iron	110	Open	1,590.48	0.00		1.41
P-991	PSV-DmyNs2-Out	T-Nas-gr	0.5	1,200	Ductile Iron	110	Open	1,590.48	0.00	1.72	1.41
P-992	T-Nas-gr	J-Nas1	100.0	1,600	Ductile Iron	110	Open	3,302.46	0.16	1.64	1.64
P-993	T-Nas-gr	J-Nas2	100.0		Ductile Iron		Open	384.28	0.03		0.49
	J-17T-1	J-17T-2	144.0		Ductile Iron	110	Closed	0.00	0.00		0.00
P-1018			490.0		Ductile Iron		Open	337.64	0.47	0.96	0.76
P-1019	J-17T-2	J-18T					_	282.68	6.59	2.06	1.00
P-1023	J-16 <u>2-</u>	J-159-	3,200.0		Ductile Iron	110	Open				
P-1026	J-156-	J-155-	125.0			110	Open	95.47	1.01	8.08	1.35
P-1027	J-155-	J-154-	470.0	300	Ductile Iron	110	Open	45.04	0.95		0.64
P-1029	T-Fat-el	J-165-	100.0	600	Ductile Iron	110	Open	315.04	0.25	2.52	1.11
P-1030	J-165-	J-162-	2,150.0	600	Ductile Iron	110	Open	302.57	5.02	2.33	1.07
P-2000T	J-NMoPS	PSV-DmyKhu1-In	15,045.0	•		110	Open	1,051.61	48.85	1	1.65
		PRV-2001-In	10.0			110	Open	0.00	0.00		0.00
P-2001-1	J-3T							0.00	0.00		0.00
P-2001-2	PRV-2001-Out	J-100-	10.0				Open				
P-2002	J-113-	J-114-	15.0		Asbestos Cem	110	Open	530.12	0.10		1.87
P-2003	J-116-	J-117-	10.0		Ductile Iron		Open	298.26	0.31	31.38	3,10
P-2004	J-117-	J-118-1	350.0	350	Ductile Iron	110	Open	191.55	4.84	13,83	1.99
P-2005	J-118-1	J-125-	600.0	350	Ductile Iron	110	Open	140.54	4,68	7.80	1.46
P-2006	J-125-	J-126-	600.0			110		108.43	6.14		1.53
			180.0				Closed	0.00	0,00	+	0.00
P-2007	J-131-	J-138-				110	Open	2.87	0.00		0.04
P-200B	J-130-	J-127-	20.0								
P-2009	J-127-	J-126-	1,180.0		PVC	130	Open	32.68	6.94		1.04
P-2010	J-126-	J-128-	600.0	300	Ductile Iron	110	Ореп	91.21	4.46		
P-2011	J-128-	J-129-	600.0	250	PVC	130	Open	77.63	5.90	9.83	1.58
P-2012	J-129-	J-242-	1,100.0	250	PVC	130	Open	23,59	1.19	1.09	0.48
P-2013-1	J-241-1	J-242-	835.0		PVC	130	Open	63.27	5.62	6.73	1.29
		J-241-2	5.0			130	Closed	0.00	0.00		
P-2013-2	J-241-1					130	Open	58,08	1 70		
P-2014	J-243-1	J-241-2	295.0		PVC	-					
P-2015-1	J-239-	J-243-2	730.0		Ductile Iron	110	Open	106.70			
P-2015-2	J-243-2	J-243-1	10.0	300	Ductile fron	110	Closed	0.00			
P-2016	J-238-	J-239-	20.0	350	Ductile Iron	110	Open	190.17	0.27	13.65	1.98
P-2017	J-253-	J-247-	20.0		Ductile Iron	110	Open	59.57	0.02	0.83	0.47
P-2018	T-ADC Hill	J-235-	200.0		Ductile Iron	110	Open	138.20	3.20	16.02	1.96
			390.0		PVC	130		13.14	+	+	0.27
P-2019-1	J-149-	J-150-	_		PVC	130		16.60			
P-2019-2	J-151-	J-150-	1,000.0					16.90			
P-2020	J-158-	J-157-	1,080.0		PVC		Open				
P-2021	J-156-	J-166-	195.0		PVC	130		16.96		+	
P-2022	J-167-	J-166-	1,005.0	250	PVC	130	Closed	0.00	0.00	0.00	
P-2023	J-168-	J-167-	480.0	250	PVC	130	Open	137.82	13.65	28.43	2.81
P-2024	J-168-	J-170-	460.0		PVC	130	Open	28.10	0.69	1.50	0.57
	J-170-	J-173-	1,280.0		Ductile Iron		Open	36.24			
P-2025			995.0		Ductile Iron		Closed	0.00			
P-2026	J-176-	J-173-					0,000	4			+
P-2027	J-145-	J-146-	15.0		Ductile Iron		Open	271.56			
P-2028	J-146-	J-176-	1,108.0		Ductile Iron		Open	77.85			
P-2029	J-1 <u>77</u> -	J-176-	15.0		Ductile Iron		Closed	0,00			+
P-2030-1	J-177-	J-217-2	885.0	600	Ductile Iron	110	Open	230.27	1.25		
P-2030-2	J-217-2	J-217-1	10.0		Ductile Iron	110	Closed	0.00	0.00	0.00	0.00
P-2031	T-Khulshi-el	J-292-	200.0		Ductile Iron		Open	456.38			1.19
	J-298-	J-299-	430.0		Ductile Iron		Open	104.16			
P-2032					PVC		Open	137.95			
P-2033	J-299-	J-306-	20.0			_					
P-2034	J-306-	J-307-	280.0	_	PVC		Open	91.97			
P-2035	J-307-	J-308-	270.0		PVC		Open	45.98			
P-2036	J-Khu-1	J-293-2	230.0	1,000	Ductile Iron		Open	1,114.48			
P-2037	J-293-2	J-301-2	1,175.0	800	Ductile Iron	110	Open	773.88	3.84		
P-2038	J-301-1	J-301-2	5.0		Ductile tron		Open	340.60	0.42	2 84.98	4.82
P-2039	J-301-2	J-302-	280.0		Ductile Iron		Open	1,114.48			
			270.0		Ductile Iron		Ореп	1,114.48			
P-2040	J-302-	J-303-	~					1,114.48			
P-2041	J-303-	J-304-	360.0		Ductile Iron		Open	+	+		
P-2042	J-304-	J-305-	390.0		Ductile Iron		Open	994.67			
P-2043	J-305-	J-337-	520.0		Ductile Iron		Open	948,6			
P-2044	J-337-	J-341-	1,000.0) 800 300	Ductile Iron	110	Open	588.94			
P-2045	J-341-	J-342-	700.0	308	Ductile Iron	110	Open	512.89	1.0	7 1.53	3 1.02
P-2046	J-342-	J-344-	90.0		Ductile Iron		Open	293.96		_	1.04
			960.0		Ductile Iron		Open	235.89			
P-2047	J-344-	J-346-							+	_	
P-2048	J-346-	J-347-	340.0		Ductile Iron		Open	157.99			
P-2049	J-347-	J-366-			Ductile Iron		Open	136.4			
P-2050	J-366-	J-369-	430.0	250	PVC		Closed	0.00			
P-2051	J-370-	J-369-	340.0	200	Ductile Iron	110	Open	55.29	7.20	0 21.19	1.76
	J-342-	J-350-	490.0	-	Ductile Iron		Open	178.2		4 2.13	3 0.91
IP-2052											
P-2052		1.358	210 (7 450	Ductile Iron	1110	Open	95.2	4 0.2	3 1.12	2 0.60
P-2052 P-2053 P-2054	J-350- J-356-	J-356- J-362-	210.0 600.0		Ductile Iron Ductile Iron		Open Open	95.24 99.13			

Pipe Report Link Label Start Node End Node Length Diameter Material Rough Current Discharge -leadloss Friction Status (l/s) (m/km) (m/s) (m)350 Ductile Iron J-362-J-363-Open 62.14 0,6 P-2055-1 260.0 110 0.4 P-2055-2 J-363-J-364-160.0 350 Ductile Iron 110 Open 59.92 0.26 1.61 0.62 300 Ductile Iron P-2056 J-364 J-365 500.0 110 Open 50.97 1.27 2.53 0.722.25 620.0 19.46 1.40 P-2057 J-365 J-367-200 PVC 130 Open 0.620.01 J-358-200 PVC 11.93 J-357 10.0 130 Open 0.91 0.38 P-2058 2-2059 325.0 200 PVC 130 Open 1.49 4.59 J-359 28.58 0.91 J-358 P-2060T J-23T PSV-DmyPat1-In 300.0 600 Ductile Iron 110 Open 903.33 5.30 17.66 3.19 110 Open 903.81 17.68 P-2060T: PSV-DmyPat1-Out T-Patenga 0.5 600 Ductile Iron 0.01 3.20 P-2061 J-PatBPS1 j-401-400.0 800 Ductile Iron 110 Open 1,007.68 2.13 5.33 2.00 700 Ductile Iron P-2062 J-401 J-405-1.430.0 110 Open 556 29 4.86 3.40 1 4 P-2063 J-405 J-407 1.705.0 400 Ductile Iron 110 Open 115.19 4.80 2.82 0.92 110 Open 1.49 P-2064 J-407-J-408-535.0 350 Ductile Iron 80.58 2.79 0.84 745.0 300 Ductile Iron 110 Open 45.98 1.56 2.09 P-2065 J-408 J-409-0.65 1,590.0 -2066 J-405 J-418-600 Ductile from 110 Open 401.58 6.27 3.94 1.42 110 Open P-2067-J-418 J-420-405.0 300 Ductile Iron 98.71 8.59 1.31 -2067-2 J-420 J-422-295.0 300 Ductile Iron 110 Open 69.14 4.45 0.90 500 Ductile Iron P-2066 J-418 J-427 700.0 110 Open 190 49 1.69 2.41 0.97 500 Ductile Iron P-2069 J-427-J-428-810.0 110 Open 150.44 1.26 1.56 0.77 810.0 450 Ductile Iron 159.07 2.34 2.88 P-2070 J-428-J-429-110 Open 1.00 111.50 J-430-435.0 450 Ductile Iron 0.65 1.49 0.70 -2071 J-429 110 Open -2072 J-430-J-431-975.0 450 Ductile Iron 110 Open 101.94 1,23 1.27 0.64 <u>J-431</u>-J-432 405.0 200 PVC 130 Open 22.82 1.23 3.03 0.73 P-2073 -2074 J-431 J-415-1,170.0 350 Ductile Iron 110 Open 34.29 0.67 0,57 0.36 J-415-750.0 130 Open 13.95 0.91 1.22 0.44 P-2075 J-414-200 PVC 130 Open 1.43 P-2076 J-412-J-414-1,170,0 250 PVC 25.14 0.51 1.22 P-2077 T-Battali Hill J-225-450.0 800 Ductile Iron 110 Open 786 69 1.52 3.37 1.57 P-2078 J-225-J-375-1.220.0 600 Ductile Iron 110 Open 378.03 4.30 3.52 1.34 P-2079 J-375-J-284-845.0 350 Ductile Iron 110 Closed 0.00 0.00 0.00 0.00 700 Ductile Iron B0.0 110 Open 637.63 0.35 4.38 1.66 P-2080 J-375 J-374-P-2081 J-374-J-379-650.0 700 Ductile Iron 110 Open 447.93 1.48 2.28 1.16 0.02 0.03 P-2082 J-379-J-394-585.0 600 Ductile Iron 110 Open 27.11 0.10 600 Ductile Iron 110 Closed P-2083 J-394 J-395-65,0 0,00 0,00 0.00 0.00 P-2084 J-395 1.393. 500.0 300 Ductile Iron 110 Open 82.80 3.10 6.21 1.17 P-2085 J-396 J-395-890.0 450 Ductile Iron 110 Open 164.51 2.73 3.07 1.03 P-2086 J-382-J-388-200.0 200 PVC 130 Open 124.04 13.87 69.36 3.98 ²-3001 T-Mad2-el J-433-100,0 900 Ductile Iron 110 Open 787,98 0.19 1.90 1.24 750.0 110 Open 300 Ductile Iron 64.05 2,90 J-433-J-434-3,86 0.91 2-3002 250 PVC 130 Open 42.70 5.69 3.25 J-435-1,750.0 0,87 2-3003 J-434 P-3004 J-435-J-436-900.0 200 PVC 130 Open 21.35 2.41 2,68 0.68 702.58 P-3005 J-433-J-437-1,500.0 900 Ductile Iron 110 Open 2.31 1.54 1.10 P-3006 J-437 J-438-1,500.0 900 Ductile Iron 110 Open 652.84 2.02 1.34 1.03 -3007 J-438 J-439 850.0 800 Ductile Iron 110 Open 574.72 1.60 1.68 1.14 800 Ductile Iron 510.87 B-3008 J-439-J-102-900,0 110 Open 1.36 1.52 1.02 3.71 J-101-880.0 400 Ductile Iron 110 Open 133.60 3.26 -3009 J-102-1.06 300 Ductile Iron 110 Open 3.07 520.0 56.55 J-100-1.59 0.80-3010 J-101 J-102-J-104-1,045.0 600 Ductile Iron 110 Open 281.43 2.13 2.04 1,00 -3011 P-3012 J-104-J-105-925.0 250 PVC 130 Open 51.12 4.20 4.54 1.04 110 Open 0.98 P-3013 J-104 J-106-115.0 500 Ductile Iron 191.60 0,28 2.44 P-3014 J-106-J-107-675.0 500 Ductile Iron 110 Open 166.02 1.64 1.87 0.8 P-3015 J-107-J-108-950.0 450 Ductile Iron 110 Open 122.07 1.68 1.77 0.77 P-3016 J-10B-J-111-1 200.0 350 Ductile Iron 110 Open 74.97 0.492.44 0.78 43.92 0.03 0.91 P-3017 J-111-1 J-118-2 30.0 350 Ductile Iron 110 Open 0.46 0.90 0.45 P-3018 J-118-2 J-119-925.0 250 PVC 130 Open 22.29 0.98 200 PVC 0.51 J-119-J-120-760.0 130 Open 8.67 0.38 0.28 -3019 -3020 J-118-1 J-125-600.0 300 Ductile iron 110 Open 93.67 4.68 7.80 1.33 108.43 10.23 P-3021 J-125 J-126 600,0 300 Ductile fron 110 Open 6.14 1.53 2.30 P-3022 J-131 J-127 25.0 450 Ductile Iron 110 Open 366.10 0,34 13.48 P-3023 J-127-J-126 1.180.0 400 Ductile Iron 110 Open 171.45 6.94 5.88 1.36 P-3024 J-126 J-128-600.0 450 Ductile Iron 110 Open 265.21 4.46 7.43 1.67 P-3025 J-128-J-129-600.0 300 Ductile Iron 110 Open 106.15 5.90 9.83 1.50 4.69 J-243-2 J-241-1 305.0 350 Ductile Iron 110 Open 106.70 1.43 1.11 P-3026 J-243-1 420.0 400 Ductile Iron 110 Open 269.80 5.71 13.60 2.15 J-240--3027 350 Ductile Iron 110 Open -3028 J-243-1 119.17 1.70 5.75 J-241-2 295,0 1.24 P-3029 J-241-2 J-244-390.0 300 Ductile Iron 110 Open 89.93 2,82 7.23 1.27 400 Ductile Iron 110 Open 156.67 0.10 4.98 P-3030 J-257 J-256 20.0 1.25 P-3031 J-269-J-268-15.0 400 Ductile Iron 110 97.64 0.03 2.08 0.78 Open P-3032 T-Fat-el J-165 100.0 700 Ductile Iron 110 Open 472 71 0,25 2.52 1.23 P-3033 J-165 J-164 900.0 700 Ductile Iron 110 Open 439.44 1.98 2 20 1 14 700 Ductile Iron P-3034 J-164 J-163-600.0 110 Open 393,69 1.08 1.79 1.02 600 Ductile Iron 347.95 650.0 110 1.96 3.02 P-3035 J-163-J-162 Open 1.23 600 Ductile Iron 1,200.0 322.09 3.14 J-162-J-161-110 2.62 1.14 P-3036 Open P-3037 J-161 J-160-1,100.0 600 Ductile Iron 110 276.34 2.17 1.97 0.98 Open 1.27 P-3038 J-160-J-159 900,0 600 Ductile Iron 110 Open 230.60 1.41 0.82 P-3039 J-159-J-158-585.0 500 Ductile Iron 110 Open 199.93 1.54 2.64 1.02 P-3040 J-158-J-157 1,080.0 500 Ductile Iron 110 159.58 1.88 1.74 0.81 Open P-3041 J-157-J-156 870.0 500 Ductile Iron 110 Open 121.22 0.91 1 04 0.62 P-3042 J-156-J-152-1,525.0 450 Ductile Iron 110 Open 145.66 3.74 2.45 0.92 P-3043 J-152-J-151-390.0 300 Ductile Iron 110 Open 60.97 1.37 3.52 0.86 88,10 1.96 3.29 P-3044 J-156-J-154 595.0 350 Ductile Iron 110 Open 0.92

1,400 Ductile Iron

1,200 Ductile fron

110 Open

110 Open

1,897.89

1,477.36

0.45

0.69

1.13

1.50

1.23

1.31

400.0

460.0

T-Nas-e

J-168-

P-3045

P-3046

J-168

J-170-

Pipe Report Friction Velocity Rough Current Discharge leadloss Start Node End Node Diamete Link Label Length Slope (m/kmi (m/s) (l/s) 1,393.28 110 1.35 1.23 J-173 1,200 Ductile Iron pen 1.72 J-170 P-3047 1,000.0 1,200 Ductile Iron 110 Open 1,376,45 1.32 1.32 1.22 P-3048 J-173-J-177 1.100 Ductile Iron 1.19 895.0 110 Open 1.135.531.26 1.41 P-3049 J-177 J-189 0.01 1,41 0.81 110 Open J-217-2 J-189 10.0 600 Ductile Iron 230.27 P-3050 0.17 11.38 1.95 110 Open 245.02 J-11T J-188-15.0 400 Ductile Iron 110 Open 1,365.80 1.19 1.30 1.21 1,200 Ductile Iron P-3052 J-189-J-216-920.0 1,365.80 0.46 110 Open 1.30 1.21 355.0 1,200 Ductile Iron P-3053 J-216-J-212 110 Open 1.16 1.30 895.0 1,200 Ductile Iron 1,365,80 1.21 P-3054 J-212-J-223 535.0 600 Ductile Iron 110 Open 337.64 1.53 2.86 1.19 J-17T-2 P-3055 J-223-1,000 Ductile Iron 1,170.0 110 Open 886.63 1.66 1.42 1.13 J-284 P-3056 J-223 340,0 900 Ductile from 110 Open 644.45 0.451.31 1.01 J-284 J-283 P-3057 600.68 705.0 800 Ductile Iron 110 Open 1.44 2.04 1.20 P-3058 J-283 J-287 148.64 0.05 4.51 1.18 P-3059 J-20T J-288 10.0 400 Ductile Iron 110 Open 2.41 3.42 1.45 558,20 J-396-705.0 700 Ductile Iron 110|Open P-3060 J-287 110 Open 0.0 1.50 10.0 400 Ductile Iron 189.00 P-3061 J-21T1 J-396 585.0 450 Ductile Iron 110 Open 277.58 4.73 8.08 1.7 J-381 P-3062 J-379 110 Open 256.03 585.0 450 Ductile Iron 4.07 6.96 1.61 P-3063 J-381 J-382 500.0 300 Ductile Iron 110 Open 82.80 3.10 6.21 1.17 J-393-J-395 P-3064 1,337.96 1.21 400.0 1,000 Ductile Iron 110 Open 3.03 1.70 J-NasTPS J-31T **-3065**1 1.40 3.03 1.70 2-3066T J-317 J-32T 460.0 1,000 Ductile Iron 110 Open 1,337.96 1.70 J-33T 1.300.0 1,000 Ductile Iron 110 Open 1,337.96 3.95 3.03 P-3067T J-32T 110 Open 1,337.96 3.03 3,03 1.70 J-33T J.:34T 1.000.0 1.000 Ductile Iron P-3068T 110 Open 1,337.96 2.82 3.03 1.70 1,000 Ductile Iron P-3069T .I-34T J-35T 930.0 1,337.96 1.70 110 Open 2.79 3,03 1,000 Ductile Iron 920.0 P-30701 J~35T J-36T 110 Open 1,337.96 5.08 3.03 1.70 1,675.0 1,000 Ductile Iron P-3071T J-367 J-371 110 Open J-38T 1,337.96 3.99 3.03 1.70 1,315.0 1,000 Ductile Iron P-30721 J-37T J-39T 65.0 1,000 Ductile Iron 110 Open 1,337.96 0.20 3.03 1.70 J-38T P-30731 J-40T 890.0 1,000 Ductile Iron 110 Open 1,337.96 2.70 3.03 1.70 P-3074T J-39T 0.04 3.61 1.36 110 Open 383.21 J~40T J-21T2 10.0 600 Ductile Iron -30751 110 Open 954.75 5.93 4.82 1.90 800 Ductile Iron .1-40T J-41T 1.230.0 P-3076T 1.49 4.82 1,90 110 Ореп 954.75 800 Ductile Iron P-3077T J-41T J-400 310.0 1.08 3,30 110 Open 170.99 2.84 450 Ductile Iron P-3078 J-396-J-397-2 860.0 1.08 110 Open 170,99 1.22 3.30 370,0 450 Ductile Iron P-3079 J-397-2 J-398 110 Open J-399-520.0 500 Ductile Iron 251.65 2.10 4.03 1,28 J-398-P-3080 770.0 450 Ductile Iron 110 Open 211.68 3.77 4.89 1.33 J-370-J-399--3081 400.0 800 Ductile Iron 110 Open 956.54 1.93 4.84 1.90 -3082 J-PatBPS2 J-401 1.69 3.40 1.077.99 4.86 J-405 1 430 0 900 Ductile Iron 110 Open P-3083 J-401 2.82 1.18 4.80 110 Open 334,94 P-3084 J-405 J-407 1 705.0 600 Ductile Iron 305.90 3.05 2.38 1.08 110 Open P-3085 J-407-J-409-1,280.0 600 Ductile Iron 600 Ductile Iron 110 Open 283.05 1.34 2.06 1.00 -3086 J-409-J-410 650.0 110 Open 186.92 2.57 2.33 0.95 1,105.0 500 Ductile Iron P-3087 J-410-J-412 401.58 6.27 3.94 1.42 1,590.0 600 Ductile Iron 110 Open J-418 J-405 P-3088 405.0 400 Ductile Iron 110 Open 210.49 3.48 8.59 1.68 J-418 J-420 -3089 J-424 1.38 3.24 0.99 -3090 J-420-425 0 400 Ductile Iron 110 Open 124.25 0.97 1.95 -3091 J-418 J-428 1.510.0 600 Ductile Iron 110 Open 274.73 2.95 190.01 2.99 2.40 0.97 J-428 J-430-1,245.0 500 Ductile Iron 110 Open P-3092 134.52 1.23 1.27 0.69 975.0 500 Ductile Iron 110 Open -3093 J-430 J-431-0.88 110 Open 84.26 1.23 3.03 350 Ductile Iron P-3094 J-431-J-432-405.0 16.71 0.67 0.57 0.34 J-4<u>15</u> 1,170.0 250 PVC 130 Open P-3095 J-431-110 Ореп 21.28 1.43 1.22 0.43 1,170.0 250 PVC J-412 J-414 -3096 1.74 190.0 400 Ductile Iron 110 Open 218.75 1.75 9.23 J-296 J-293--3097 1.48 -3098 J-296-J-298 500.0 400 Ductile Iron 110 Open 185.85 3.41 6.83 1.47 9.49 J-299 430.0 300 Ductile Iron 110lOpen 104.16 4.08 P-3099 J-298 0.89 130 Open 43.73 3.40 J-299 J-309 595.0 250 PVC 2.02 -3100 22.85 1.37 3.03 0.73 200 PVC 130 Open P-3101 J-309 J-311-450.0 110 Open 261.99 3.04 1.79 0.931,700.0 600 Ductile Iron P-31<u>02</u> J-337 J-342-47.19 0.84 2.19 0.67 385.0 300 Ductile Iron 110 Open P-3103 J-350 J-352-110 Open 265.01 1.28 1.83 0.94 700.0 600 Ductile Iron J-356 P-3104 J-342 335.0 350 Ductile (ron 110 Open 73.24 0.78 2.34 0.76 J-356 J-358-P-3105 245.0 250 PVC 130 Open 24.50 0.291.16 0.50P-3106 J-359 J-360 118,79 0.71 1.68 0.75 J-362 J-364 420.0 450 Ductile Iron 110 Open P-3107 108.69 2.53 0.86 110 Open 1.27 J-364 J-365-500.0 400 Ductile Iron P-3108 102.09 1.40 2.25 0.81 620.0 400 Ductile Iron 110 Open P-3109 J-365 J-367-110 Open 0,63 79,35 0.93 1.41 P-3110 J-366-J-367-660.0 400 Ductile tron 108.06 0,38 2.50 0.86 150.0 400 Ductile Iron 110 Open P-3112 J-367 J-368 110 Open 384,28 6.86 1.71 1.00 J-SalimpurPS PSV-DmySal-li 4,000.0 700 Ductile Iron P-3113T 110 Open 903,55 2.45 2.45 1.42 T-Salimpur J-322 1,000.0 900 Ductile Iron P-3114 850.0 450 Ductile Iron 110 Open 149.37 2.18 2.57 0.94 J-323 P-3115 J-322-3.07 0.96 3.07 1,000.0 400 Ductile Iron 110 Open 120.63 P-3116 J-323 J-324 94.54 0.98 3.75 3.75 J-325 1,000.0 350 Ductile Iron 110 Open P-3117 J-324 70.90 4.66 110 Open P-3118 J-325-J-326-1,000.0 300 Ductile Iron 47.27 3.93 0.96 130 Open 3.93 1,000.0 250 PVC P-3119 J-326 J-327-3.23 0.75 1,000.0 200 PVC 130 Open 23.63 3.23 P-3120 J-327 J-328-110 Open 400.0 700 Ductile Iron 725.49 2.22 5.56 1.89 P-3121 J-322-J-321 700 Ductile Iron 110 Open 629.19 1.84 4 27 1.63 430.0 J-321-J-319-P-3122 2,120.0 700 Ductile Iron 110 Open 577.39 7 72 3.64 1.50 J-318-P-3123 J-319-500 Ductile Iron 320.0 110 Open 338.03 2.23 6.96 1.72 P-3124 J-318-J-315 0.06 1.38 P-3125 J-14T J-210-15.0 600 Ductile Iron 110 Open 389.27 3.72

600 Ductile Iron

300 Ductile Iron

200 Asbestos Ce

110 Open.

110 Closed

110|Open

15.0

200.0

200.0

J-211-

J-254-

T-ADC Hill

J-210

J-16T

T-ADC Hil

P-3126

P-ADCin

P-ADCour

1.16

0.00

0.04

0.00

2,85

326,61

0.00

44.58

2.69

0.00

Prescription Prescription Prescription 100 Dopp 838 80 DO 0.00 7.16 2.17				P	ipe Repor	t						
Page	Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss		Velocity
September Sept							ness	Status			Slope	
Principal				(m)	(mm)		C		(I/s)	(m)	(m/km)	(m/s)
Processor Proc	P-Agrabad ,	J-393-	T-Agrabad		200	Mild Steel	100	Closed	0.00	0.00	0.00	0.00
Color				10.0	200	Mild Steel	100	Open	0.00	0.00	0.00	0,00
Designation Telemphone Te										0.00	0.00	0.00
Destruction 1996 Propriet 1996 Destruction 1997 199												
February												
												
Ferriary												
				_				_	$\overline{}$			
Ferentahel Afterwarden PAP-Ferentahel 10.0 200 Select 10.0 0.00	P-FatIP3	J-FatPS										
Females 330	P-FatiP4	PSV-DmyFat-Out	T-Fat-el			Ductile Iron						
Personal	P-Ferozshah1	R-ferozshah	PMP-Ferozshah-In	10.0	. 200	Mild Steel	100	Open	0.00			
Part	P-Ferozshah2	J-330-	PMP-Ferozshah-Out	180.0	150	PVC	130	Closed	0.00	0.00	0,00	0.00
Jase	P-Hali1	R-Hali	PMP-Hali-In	10.0	200	Mild Steel	100	Open	0,00	0.00	0.00	0.00
Heisheited 1987			PMP-Hali-Out	10.0	150	Mild Steel	100	Closed	0.00	0.00	0.00	0.00
New York						Mild Steel			0.00	0.00	0.00	0.00
Page												0.00
1479-												
New York Scharghard Schar												
PART Tributyred PRP-641-Un 5.0 380 Decision 110 Open 368.72 0.20 362.73 3.55												
NewPrince PRP-Reint Out												
PARP												
PAMPATER	P-KalP1o	PMP-Kal-1-Out							-			
Find		PMP-Kal-2-in										
PARP T-Manghat	P-KalP2o	J-KalurghatBPS	PMP-Kal-2-Out	5.0								0.00
PARP		T-Kalurghat	PMP-Kal-3-In	5.0	350	Ductile Iron	110	Open	255.63	0.12	23,59	2,66
Part			J-KalurghatBPS	5.0			110	Open	255.63	2.28	455.10	2.66
PAPE-Not-1-Care PAPE-Not-1										0.12	23.59	2,66
PARTER Trisburgher PMP-Kell-S-In 5.0 950 Dueste Iron 110 Open 398.72 0.20 39.27 3.55 PARTER PMP-Kell-S-In H-Ratergher 5.0 350 Dueste Iron 110 Open 30.07 3.94 787.99 PARTER PMP-Kell-S-In Trisburgher 5.0 350 Dueste Iron 110 Open 0.00 0.00 0.00 PARTER PMP-Kell-S-IN Trisburgher 5.0 300 Dueste Iron 110 Open 0.00 0.00 0.00 PARTER H-Raterghar H-Ramaghar 1.0 1,500 Dueste Iron 110 Open 3,157,00 0.00 0.00 PARTER H-Ramaghar H-Ramaghar 1.0 1,500 Dueste Iron 110 Open 3,157,00 0.00 0.00 PARTER H-Ramaghar H-Ramaghar 1.0 1,500 Dueste Iron 110 Open 3,157,00 0.00 0.00 PARTER H-Ramaghar H-Ramaghar 1.0 1,500 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 795,21 0.07 13,95 2.81 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 1.0 0.00 0.00 PARTER H-Ramaghar H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 1.0 0.00 PARTER H-Ramaghar 1.0 0.00 Dueste Iron 110 Open 1.0									255.63			2.66
PARP PARP Assistant PAPP PARP Assistant PAPP Assistant												
PAMP-Kard-Schrift F-Kaurghet S.0 3000 Ductile from 110 Open 0.000 0.			-									
Activation Act				-								_
Notemphal Note			· †									
2-SearP2												
Accorded Albertanghus												
PARPACIMENT Dept. Supplement Dept. Parpacit Dept.		T-Karnaphuli	-									
Alexandrol Ale	P-KarP1i	J-Karnaphuli	PMP-Karna-1-In									
PABLAGNES PABLAGNES QUIL J-KarPS S.D GOD Ductile from 1110 Open 795.21 2.49 497.47 2.81	P-KarP1o	PMP-Karna-1-Out	J-KarPS		-	Ductile Iron						
PMP-Karma-Number PMP-Karma-N	P-KarP2i	J-Karnaphuli	PMP-Karna-2-In	5.0	600	Ductile Iron	110	Open	795.21	0,07		2.81
Search S	P-Karo2o	PMP-Karna-2-Out	J-KarPS	5.0	600	Ductile Iron	110	Open	795.21	2.49	497.47	2.81
PMP-Karns-Qual J-KarPS 5.0 600 Ductile Into 110 Open 795.21 2.49 497.47 2.81			PMP-Karna-3-In	5.0	600	Ductile Iron	110	Open	795.21	0.07	13.95	2.81
PAGPF40						Ductile Iron	110	Open	795.21	2.49	497.47	2.81
PMP-Karns-Cut												-
P-RainPS												
P-KarPS									-			
P.KarTrane1												
P-Kor/Trans2												
P-ROWH1 J-294 P-R-R-WeightH- 30.0 200 Mist Steet 100 Closed 0.00 0												-
P-ROLIF12 R-ROLIFINH PMP-ROLIFINH-In 10.0 200 PVC 130 Open 0.00				+								
Price Pric	P-KhuH1	J-294-	R-KhulshiH									******
P-RouiP1 T-Roubit+gr	P-KhuH2	R-KhulshiH	PMP-KhulshiH-In	10.0	200	PVC		 				
P-MouPP2	P-KhuH3	PMP-KhulshiH-Out	J-295-	20.0	150	Mild Steel	100	Closed	0,00	0,00	0.00	0.00
P-MouPP2	P-KhulP1	T-Khulshi-gr	J-Khu-1	5.0	1,000	Ductile Iron	110	Open	1,598.33	0.02	4.22	2.04
P-MoulP3 J-KyuPS PSV-DmyKhu2-Int 7-Hrubishied 0.5 700 Ductible fron 110 Open 483.85 0.21 2.63 1.25 P-MoulP4 PSV-DmyKhu2-Out 7-Hrubishied 0.5 700 Ductible fron 110 Open 241.92 0.23 45.13 3.44 P-MoulP10 PMP-Khu1-Out J-KhuPS 5.0 300 Ductible fron 110 Open 241.92 3.81 761.14 3.45 P-MoulP20 J-KhuP2 PMP-Khu1-Out J-KhuPS 5.0 300 Ductible fron 110 Open 241.92 3.81 761.14 3.45 P-MoulP20 J-KhuP2 PMP-Khu1-Out J-KhuPS 5.0 300 Ductible fron 110 Open 241.93 3.81 761.14 3.45 P-MoulP20 J-KhuP2 PMP-Khu-2-In 5.0 300 Ductible fron 110 Open 241.93 3.81 761.15 3.45 P-MoulP20 J-KhuP2 PMP-Khu-3-In 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP3 J-KhuP2 PMP-Khu-3-In 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP4 J-Khu-2 PMP-Khu-4-In 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP4 J-Khu-2 PMP-Khu-4-In 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP40 PMP-Khu-4-Out J-KhuPS 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP40 PMP-Khu-4-Out J-KhuPS 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP40 PMP-Khu-4-Out J-KhuPS 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP40 PMP-Khu-4-Out J-KhuPS 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP40 PMP-Khu-4-Out J-KhuPS 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 P-KhuP40 PMP-Khu-4-Out J-KhuPS 5.0 300 Ductible fron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			J-Khu-2	50.0	900	Ductile Iron	110	Ореп	483.85	0.04	0.77	0.76
Principal Prin				80.0	700	Ductile Iron	110	Open	483.85	0.21	2.63	1.26
P-Min-P1					1					0.00		1.26
P-KnuP1							1.10		044.00			
P-KinuP2 J-Kinu-2 PMP-Kinu-2-In												
P-KnuP2o						, 						
P-KinuP3i J-Kinu-2 PMP-Kinu-3-lin 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-KinuP3a PMP-Kinu-3-Out J-KinuP5s 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.												
P-KiuP3a PMP-Kiu-3-Out J-Kiu-PS 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-KiuP4i J-Kiu-2 PMP-Kiu-4-In 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.						7						
P-KNiP4I J-KniP2 PMP-KniP4-In 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-KhiP4O PMP-KhiP4-Out J-KniPS 5.0 300 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.												
PKhu 40 PMP-Khu-4-Out J-Kru PS 5.0 300 Ductile Iron 110 Open 0.00												
P-LL1	P-KhuP4i				1		+					
P-LL2 J-222- PMP-LoveLane-Out 170.0 200 Mild Steel 100 Closed 0.00 0.00 0.00 0.00 0.00 0.00 PMad2IP1 J-Mad2vgr 1.0 1,000 Ductile Iron 110 Open 526.16 0.00 0.54 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67	P-KhuP4o	PMP-Khu-4-Out	J-KhuPS									
P-LL2 J-222- PMP-LoveLane-Out 170.0 200 Mild Steel 100 Closed 0.00 0.00 0.00 0.00 0.00 0.00 P-Mad2IP1 J-Mad2-yr 1.00 1.000 Ductile Iron 110 Open 526.16 0.00 0.54 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67	P-LL1	R-Love Lane	PMP-LoveLane-In	10.0								
P-Mad2IP1 J-Mad2-yr J-Mad2-yr 1.0 1,000 Ductile Iron 110 Open 526.16 0.00 0.54 0.67 P-Mad2IP2 T-Mad2-yr J-Mad2 10.0 700 Ductile Iron 110 Open 828.11 0.07 7.10 2.15 P-Mad2IP3 J-Mad2-PS PSV-DryyMad2-In 80.0 700 Ductile Iron 110 Open 828.11 0.57 7.10 2.15 P-Mad2IP4 PSV-DryyMad2-Out T-Mad2-el 0.5 800 Ductile Iron 110 Open 829.53 0.00 3.71 1.66 P-Mad2P1 J-Mad2 PMP-Mad2-1-In 5.0 400 Ductile Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P10 PMP-Mad2-1-Out J-Mad2-PS 5.0 400 Ductile Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2P20 PMP-Mad2-2-Out J-Mad2-PS 5.0 400 Ductile Iron 110 Open 273.70 0.07 13.97 2.16 P-Mad2P30 PMP-Mad2-2-Out J-Mad2-PS 5.0 400 Ductile Iron 110 Open 273.70 1.52 303.94 2.18 P-Mad2P30 PMP-Mad2-3-In 5.0 400 Ductile Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P30 PMP-Mad2-3-Out J-Mad2-PS 5.0 400 Ductile Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P30 PMP-Mad2-3-Out J-Mad2-PS 5.0 400 Ductile Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P40 J-Mad2 PMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2P40 J-Mad2-PS FMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 1.052.31 0.00 1.95 1.39 P-MohIP1 J-Mohara J-Mohara 1.0 1,000 Ductile Iron 110 Open 1.052.31 0.00 1.95 1.39 P-MohIP2 T-Mohara J-Mohara 10.0 600 Ductile Iron 110 Open 289.27 1.71 342.36 2.39 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.39 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.39	P-LL2			170.0	200	Mild Steel	100	Closed	0.00	0.00	0.00	0.00
P-Mad2IP2 T-Mad2-gr J-Mad2 10.0 700 Ductie Iron 110 Open 828.11 0.07 7.10 2.15 P-Mad2IP3 J-Mad2-PS PSV-DmyMad2-In 80.0 700 Ductie Iron 110 Open 828.11 0.57 7.10 2.15 P-Mad2IP4 PSV-DmyMad2-Out T-Mad2-el 0.5 800 Ductie Iron 110 Open 829.53 0.00 3.71 1.66 P-Mad2IP1 J-Mad2 PMP-Mad2-1-In 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P10 PMP-Mad2-1-Out J-Mad2-PS 5.0 400 Ductie Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2P20 PMP-Mad2-2-In 5.0 400 Ductie Iron 110 Open 273.70 0.07 13.97 2.16 P-Mad2P20 PMP-Mad2-2-Out J-Mad2-PS 5.0 400 Ductie Iron 110 Open 273.70 1.52 303.94 2.16 P-Mad2P30 PMP-Mad2-3-Out J-Mad2-PS 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P30 PMP-Mad2-3-Out J-Mad2-PS 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P30 PMP-Mad2-3-Out J-Mad2-PS 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P30 PMP-Mad2-3-Out J-Mad2-PS 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2P40 J-Mad2 PMP-Mad2-4-In 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.						Ductile Iron			526.16	0.00	0.54	0.67
P-Mad2IP3 J-Mad2-PS PSV-DrryMad2-In 80.0 700 Ductie Iron 110 Open 828.11 0.57 7.10 2.15 P-Mad2IP4 PSV-DrryMad2-Out T-Mad2-el 0.5 800 Ductie Iron 110 Open 829.53 0.00 3.71 1.66 P-Mad2IP1 J-Mad2 PMP-Mad2-1-In 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2IP1 J-Mad2 PMP-Mad2-II J-Mad2-PS 5.0 400 Ductie Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2IP2 PMP-Mad2-2-In 5.0 400 Ductie Iron 110 Open 273.70 0.07 13.97 2.16 P-Mad2IP3 J-Mad2 PMP-Mad2-3-In 5.0 400 Ductie Iron 110 Open 273.70 1.52 303.94 2.16 P-Mad2IP3 J-Mad2 PMP-Mad2-3-In 5.0 400 Ductie Iron 110 Open 273.70 1.52 303.94 2.16 P-Mad2IP3 J-Mad2 PMP-Mad2-3-In 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2IP3 J-Mad2 PMP-Mad2-3-In 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2IP3 J-Mad2 PMP-Mad2-4-In 5.0 400 Ductie Iron 110 Open 277.21 0.07 14.30 2.21 P-Mad2IP4 J-Mad2 PMP-Mad2-4-In 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2IP4 J-Mad2 PMP-Mad2-4-In 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2IP4 J-Mad2 PMP-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2IP4 J-Mad2-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2IP4 J-Mad2-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2IP4 J-Mad2-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2IP4 J-Mad2-Mad2-4-Out 5.0 400 Ductie Iron 110 Open 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.												
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P-Mad2P31 J-Mad2 PMP-Mad2-3-In 5.0 400 Ductile Iron 110 Open 277.21 0.07 14.30 2.21 PMBd2P30 PMP-Mad2-3-Out J-Mad2-PS 5.0 400 Ductile Iron 110 Open 277.21 1.56 311.75 2.21 P-Mad2P41 J-Mad2 PMP-Mad2-4-In 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-Mad2P40 J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-Mad2-PA J-Mad2-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductile Iron 110 Open 526.16 236.82 15.79 2.66 P-MohlP1 J-Mohara 1.0 1,000 Ductile Iron 110 Open 1,052.31 0.00 1.95 1.3-P-MohlP2 T-Mohara J-Mohara 10.0 600 Ductile Iron 110 Open 1,157.08 0.28 27.92 4.05 P-MoP11 J-Mohara PMP-Mo-1-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP20 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27												
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P-Mad2P4o J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-MadunaghatTrans J-MadunaghatWTP T-Battal Hill 15,000.0 500 Ductile Iron 110 Open 526.16 236.82 15.79 2.68 P-MohIP1 J-MoharaWTP T-Mohara 1.0 1,000 Ductile Iron 110 Open 1,052.31 0.00 1.95 1.35 P-MohIP2 T-Mohara 10.0 600 Ductile Iron 110 Open 1,157.08 0.28 27.92 4.00 P-MoP1i J-Mohara PMP-Mo-1-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 3	P-Mad2P3o	PMP-Mad2-3-Out	J-Mad2-PS	+	1	Ductile Iron						
P-Mad2P4o J-Mad2-PS PMP-Mad2-4-Out 5.0 400 Ductile Iron 110 Open 0.00 0.00 0.00 0.00 0.00 P-MadunaghatTrans J-MadunaghatTrans J-MadunaghatTrans J-MadunaghatTrans T-Mahara 1.0 1,000 Ductile Iron 110 Open 526.16 236.82 15.79 2.66 P-MahIP1 J-Mohara J-Mohara 1.0 1,000 Ductile Iron 110 Open 1,052.31 0.00 1.95 1.35 P-MahIP2 T-Mohara J-Mohara 10.0 600 Ductile Iron 110 Open 1,157.08 0.28 27.92 4.05 P-MoP1i J-Mohara PMP-Mo-1-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.36 P-MoP1o PMP-Mo-1-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.36 P-MoP2 PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 40	P-Mad2P4i	J-Mad2	PMP-Mad2-4-In	5.0	400	Ductile Iron	110	Open	0.00			
P-MaduraghatTrans J-MaduraghatWTP T-Battali Hill 15,000.0 500 Ductile Iron 110 Open 526.16 236.82 15.79 2.60 P-MohIP1 J-Mohara 1.0 1,000 Ductile Iron 110 Open 1,052.31 0.00 1.95 1.35 P-MohIP2 T-Mohara J-Mohara 10.0 600 Ductile Iron 110 Open 1,157.08 0.28 27.92 4.00 P-MoP1i J-Mohara PMP-Mo-1-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP1o PMP-Mo-1-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P				5.0	400	Ductile Iron			0.00	0,00	0.00	0.00
P-MohlP1 J-MoharaWTP T-Mohara 1.0 1,000 Ductile fron 110 Open 1,052.31 0.00 1.95 1.3- P-MohlP2 T-Mohara J-Mohara 10.0 600 Ductile fron 110 Open 1,157.08 0.28 27.92 4.05 P-MoP1i J-Mohara PMP-Mo-1-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.36 P-MoP1o PMP-Mo-1-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.39 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.36 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.39			- 									2.68
P-MohlP2 T-Mohara J-Mohara 10.0 600 Ductile Iron 110 Open 1,157.08 0.28 27.92 4.08 P-MoP1i J-Mohara PMP-Mo-1-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP1o PMP-Mo-1-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30			7									
P-MoP1i J-Mohara PMP-Mo-1-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP1o PMP-Mo-1-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30				+	1							
P-MoP1o PMP-Mo-1-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30 P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30		· · · · · · · · · · · · · · · · · · ·										
P-MoP2i J-Mohara PMP-Mo-2-In 5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30 P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30				1								
P-MoP2o PMP-Mo-2-Out J-MohPS 5.0 400 Mild Steel 100 Open 289.27 1.71 342.36 2.30											1	
				1								
P-MoP3i J-Mohara PMP-Mo-3-In [5.0 400 Mild Steel 100 Open 289.27 0.09 18.46 2.30	P-MoP2o	PMP-Mo-2-Out										
	P-MoP3i	J-Mohara	PMP-Mo-3-in	5.0	400	Mild Steel	100	Open	289.27	0.09	18.46	2.30

Pipe Report

			Г	ipe Repo	1						
Link Label	Start Node	End Node	Length	Diameter	Material	Rough-	Current	Discharge	Headloss	Friction	Velocity
						ness	Status			Slope	
			(m)	(mm)		l c		(l/s)	(m)	(m/km)	(m/s)
P-MoP3o	PMP-Mo-3-Out	J-MohPS	5.0	400	Mild Steel	100		289.27	1.71	342.36	2,30
P-MoP4i	J-Mohara	PMP-Mo-4-In	5.0	400	Mild Steel	100	Open	289.27	0.09	18.46	2.30
P-MoP4o	PMP-Mo-4-Out	J-MohPS	5.0	400	Mild Steel	100	Open	289.27	1,71	342.36	2.30
P-MoP5i	PMP-Mo-5-In	J-Mohara	5.0	400	Ductile Iron	110	Open	0.00	0,00	0.00	0.00
P-MoP5o	J-MohPS	PMP-Mo-5-Out	5.0	400	Ductile Iron	110	Open	0.00	0.00	0.00	0,00
P-Nalapara2	J-266-	PMP-Nalapara-Out	170.0		PVC	130	Closed	0.00	0.00	0.00	0.00
P-Narapala1	R-Nalapara	PMP-Nalapara-in	10.0	200	Mild Steel	100	Open	0,00	0.00	0.00	0.00
P-NasiP2	J-NasPS	PSV-DmyNas-In	80.0		Ductile Iron	110		1,964.50	0.31	3.88	2.07
P-NasiP3	PSV-DmyNas-Out	T-Nas-el	0.5	1,100			Open	1,968.85	0,00	3.90	2.07
P-NasP1i	J-Nas1	PMP-Nas-1-In	5.0		Ductile Iron	110		654.83	0.05	9.74	2.32
P-NasP1o	PMP-Nas-1-Out	J-NasPS	5.0		Ductile Iron	110		654.83	1.69	337.61	2.32
P-NasP2i	J-Nas1	PMP-Nas-2-In	5.0	600		+	Open	654.83	0.05	9.74	2.32
P-NasP2o	PMP-Nas-2-Out	J-NasPS	5.0		Ductile Iron	110		654.83	1.69		2.32
P-NasP3i	J-Nas1	PMP-Nas-3-In	5.0		Ductile Iron	110		654.83	0.05	9.74	2.32
P-NasP3o	PMP-Nas-3-Out	J-NasPS	5.0	600			Open	654,83	1.69		2.32
		PMP-Nas-4-In	5.0		Ductile Iron	110		0.00	0.00	0.00	0.00
P-NasP4i	J-Nas1		5.0		Ductile Iron	110		0,00	0.00		0.00
P-NasP4o	J-NasPS	PMP-Nas-4-Out	5.0	600		110	-	668.98	0.05	10.13	2.37
P-NasTP1i	J-Nas1	PMP-Nas-T1-In	5.0		Ductile Iron	110		668.98	1.76		2.37
P-NasTP1o	PMP-Nas-T1-Out	J-NasTPS					Ореп	668.98	0.05		2.37
P-NasTP2i	J-Nas1	PMP-Nas-T2-In	5.0	600		+			1.76	,	2.37
P-NasTP2o	PMP-Nas-T2-Out	J-NasTPS	5.0	600		110		668.98			
P-NasTP3i	J-Nas1	PMP-Nas-T3-In	5.0		Ductile Iron		Open	0,00	0.00		0.00
P-NasTP3o	J-NasTPS	PMP-Nas-T3-Out	5.0	600		110		0.00	0.00		0.00
P-NMoIP1	J-N MoharaWTP	T-New Mohara	1.0	1,000		110		1,052.31	0.00		1.34
P-NMoIP2	T-New Mohara	J-N Mohara	10.0	600			Open	1,051.61	0.23	23,39	3.72
P-NMoP1i	J-N Mohara	PMP-NMo-1-In	5.0	300		110		262,90	0.26		3.72
P-NMoP1o	PMP-NMo-1-Out	J-NMoPS	5.0	300		110		262.90	4.49		3.72
P-NMoP2i	J-N Mohara	PMP-NMo-2-In	5.0		Ductile Iron	110		262.90	0.26		3.72
P-NMoP2o	PMP-NMo-2-Out	J-NMoPS	5.0		Ductile Iron	110		262.90	4.49		3.72
P-NMoP3i	J-N Mohara	PMP-NMo-3-In	5.0	300		110		262.90	0.26		3.72
P-NMoP3o	PMP-NMo-3-Out	J-NMoPS	5.0	300	Ductile Iron	110		262.90			3.72
P-NMoP4i	J-N Mohara	PMP-NMo-4-In	5,0	300	Ductile Iron	110		262.90			3.72
P-NMoP4o	PMP-NMo-4-Out	J-NMoPS	5.0	300	Ductile Iron	110		262.90			3.72
P-NMoP5i	PMP-NMo-5-In	J-N Mohara	5,0	300	Ductile Iron	110	Open	0.00	0.00		0.00
P-NMoP5o	J-NMoPS	PMP-NMo-5-Out	5.0	300	Ductile Iron	110	Open	0.00	0,00	0.00	0.00
P-PatIP	T-Patenga	J-Patenga	30.0	600	Ductile Iron	110	Open	1,964.22	2.23	74.31	6.95
P-PatNNP1i	J-Patenga	PMP-Pat-NN1-In	5.0	500	Ductile Iron	110	Open	478.27	0.07	13.23	2.44
P-PatNNP1o	PMP-Pat-NN1-Out	J-PatBPS2	5.0	500	Ductile Iron	110	Open	478.27	1.88	375.91	2.44
P-PatNNP2i	J-Patenga	PMP-Pat-NN2-In	5.0	500	Ductile Iron	110	Open	478.27	0.07	13.23	2.44
P-PatNNP2o	PMP-Pat-NN2-Out	J-PatBPS2	5.0	500	Ductile Iron	110	Open	478.27	1.88	375.91	2.44
P-PatNNP3i	PMP-Pat-NN3-In	J-Patenga	5.0	500	Ductile Iron	110	Open	0.00	0,00	0.00	0.00
P-PatNNP3o	J-PatBPS2	PMP-Pat-NN3-Out	5.0	500	Ductile Iron	110	Open	0.00	0,00	0.00	0.00
P-PatNP1i	J-Patenga	PMP-Pat-N1-In	5.0	450	Ductile Iron	110	Open	335.89	0.06	11.50	2.11
P-PatNP1o	PMP-Pat-N1-Out	J-PatBPS1	5.0	450	Ductile Iron	110	Open	335.89	1.42	284.14	2.11
P-PatNP2i	J-Patenga	PMP-Pat-N2-In	5.0	450	Ductile Iron	110	Open	335,89	0.06	11.50	2.11
P-PatNP2o	PMP-Pat-N2-Out	J-PatBPS1	5.0	450	Ductile Iron	110	Open	335.89	1.42	284.14	2.11
P-PatNP3i	J-Patenga	PMP-Pat-N3-In	5.0	450	Ductile Iron	110	Open	335.89	0.06	11.50	2.11
P-PatNP3o	PMP-Pat-N3-Out	J-PatBPS1	5.0	450	Ductile Iron	110	Open	335.89	1.42	284.14	2.11
P-per1	R-Percival	PMP-Perciva-In	10.0	•	Mild Steel		Open	0.00			0.00
P-Per2	J-191-	PMP-Percival-Out	20.0	150		100		0.00		0.00	0.00
P-PSVKhu1	PSV-DmyKhu1-Out	T-Khulshi-gr	0.5		Ductile Iron		Open	1,051.61	0.00		
P-Sadar1	R-sadarghat	PMP-Sadarghat-In	10.0	+	Mild Steel		Open	0.00			+
	J-269-	PMP-Sadarghat-Out	150,0		PVC		Closed	0.00	•		
P-Sadar2		PMP-Sal-1-In	5.0		Ductile Iron		Open	384.28			
P-SaP1i	J-Nas2	J-SalimpurPS	5.0		Ductile Iron		Ореп	384.28			
P-SalP1o	PMP-Sal-1-Out						Open	0.00			
P-SalP2i	J-Nas2	PMP-Sal-2-In	5.0		Ductile fron		Open	0.00			
P-SalP2o	PMP-Sal-2-Out	J-SalimpurPS	5.0		Ductile Iron				+	+	
P-SalP3i	J-Nas2	PMP-Sal-3-In	5.0		Ductile Iron		Open	0.00			
P-SalP3o	J-SaimpurPS	PMP-Sal-3-Out	5.0		Ductile Iron		Open	0.00			
P-SalPSV	PSV-DmySal-Out	T-Salimpur	0.5		Ductile Iron		Open	384.50			
P-T-Feroz	J-318-	T-Ferozshah	350.0	I 200	Mild Steel	1 100	Closed	0.00) 0.00	0.00	0.00