

# APPENDIX A

## Sanitary Demand & WWTF Capacity Calculations

### Dundalk Sanitary Capacity Evaluation

DESCRIPTION	April 2023	POST WWTP UPGRADES	UNITS
Available Capacity	1,832	3,025	m3/day
Average Day Flow	1,124	1,124	m3/day
Reserve Capacity	708	1,901	m3/day
Persons Per Existing Residential Unit (2016 Census Data)	2.6	2.6	Persons
Maximum Day Per Capita Flow	0.331	0.331	m3/day
Persons Per New <b>Equivalent Residential Unit</b> (2017 DC Background Study)	2.61	2.61	Persons
Average New Development Per Capita Flow	0.3	0.3	m3/day
Equivalent Flow Per Residential Unit	0.783	0.783	m3/day
<b>Additional ERUs that can be serviced</b>	<b>905</b>	<b>2427</b>	<b>ERUs</b>

#### TOTAL EQUIVALENT RESIDENTIAL UNIT (ERU) SUMMARY OF OCCUPIED, COMMITTED AND UNCOMMITTED UNITS

DEVELOPMENT	OCCUPIED UNITS 2023	COMMITTED UNITS	UNCOMMITTED UNITS
White Rose (Phase 1 & 2)	66	0	0
White Rose (Phase 3)	0	30	0
Flato North (Phase 3)	46	0	0
Flato North (Phase 4)	22	0	0
Flato North (Phase 5)	59	0	0
Flato North (Phase 6)	68	0	0
Glenelg (Phase 1)	31	152	0
Flato West Block 75	21	35	0
Flato East (Phase 7, 8 & 10)	0	188	0
Flato East (Phase 11)	0	123	0
Flato East (Commercial Block)	0	29	0
Infill Lots	0	5	0
<b>TOTAL COMMITTED UNITS 2021</b>		<b>562</b>	<b>1865</b>
White Rose (Phase 3)	0	0	47
Flato East (Phase 9)	0	0	47
Flato East (Phase 11)	0	0	50
Glenelg (Phase 2)	0	0	155
Glenelg (Phase 3)	0	0	459
Flato North West	0	0	250
<b>TOTAL UNCOMMITTED UNITS</b>			<b>1457</b>
<b>Total Number of Available ERUs</b>			<b>343</b>
<b>Total Number of Available ERUs Upon Completion of WWTP Upgrades</b>			<b>2427</b>
<b>Total Projected ERUs of Reserve Capacity Available Upon Occupation of Committed Units</b>			<b>1865</b>
<b>Projected ERUs of Reserve Capacity Available Upon Occupation of The Above Uncommitted Units</b>			<b>408</b>



File: 1060-6220  
Date: 2023.05.26  
By: PM  
Check By: JL'A

### Glenelg Phase 3 Development (Bradley Street Connection) - Sanitary Design Criteria

Developed Site Area	10.38 ha
Number of Residential Units	
Single Residential	78 units
	<b>TOTAL: 78 units</b>
Person Per Unit	2.61 persons/unit
Residential Population	204 persons
Institutional Population	
School Students	700 students

#### Unit Sewage flows

Residential (Per New Development Unit Flow Rates, Triton Engineering (2022))	300 L/C/day
Institutional (Per MOE Sewage Works Design Stds.)	140 L/student/day
Infiltration (typical)	0.15 L/s/ha

#### Total Design Sewage Flows

Infiltration/Inflow Residential	1.56 L/sec
Average Daily Residential Flow	0.71 L/sec
Residential Peak Factor (Harmon Formula)	4.15
Average Daily Institutional Flow	1.13 L/sec
Institutional Peak Factor (Per MOE Guidelines)	1.50
<b>Total Peak Daily Flow</b>	<b>6.19 L/sec</b>



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### Glenelg Phase 3 Development (Glenelg Connection) - Sanitary Design Criteria

Developed Site Area	12.76 ha
Number of Residential Units	
Single Residential	212 units
Semi	24 units
Townhouse	74 units
	<b>TOTAL: 310 units</b>
Person Per Unit	2.61 persons/unit
Residential Population	809 persons
Institutional Population	
School Students	700 students
<b>Unit Sewage flows</b>	
Residential (Per New Development Unit Flow Rates, Triton Engineering (2022))	300 L/C/day
Institutional (Per MOE Sewage Works Design Stds.)	140 L/student/day
Infiltration (typical)	0.15 L/s/ha
<b>Total Design Sewage Flows</b>	
Infiltration/Inflow Residential	1.91 L/sec
Average Daily Residential Flow	2.81 L/sec
Residential Peak Factor (Harmon Formula)	3.86
<b>Total Peak Daily Flow</b>	<b>12.75 L/sec</b>

**GLENELG PHASE 3 RESIDENTIAL DEVELOPMENT - EXTERNAL**

BY: PM  
CHECK: JL'A  
SUBMISSION: 2nd FSRSWM

**Peak Factor (M) =**  $1+(14/4+(P/1000)^{0.5})$   
**Avg. Daily/Capita Flow =** 300 L/cap.d  
**Q infiltration =** 0.15 L/ha.s

**N = 0.013**  
**Population = 2.61** p.p.u.

CATCHMENT AREA	FROM MH	TO MH	LENGTH (m)	INC. AREA (Ha)	CUM. AREA (Ha)	LOTS	INC. POP.	TOTAL POP.	PEAK FACTOR	AVG. FLOW (L/S)	MAX FLOW (L/S)	INFIL. (L/S)	TOTAL INFIL.	COMBINED (L/S)
	1	SAN7-PH2	SAN6-PH2	13.4	0.18	0.18	3	8	8	4.42	0.03	0.12	0.03	0.03
2	SAN6-PH2	SAN5-PH2	67.3	0.62	0.8	13	34	42	4.33	0.15	0.63	0.12	0.12	<b>0.75</b>
3	SAN5-PH2	SAN4-PH2	16.6	0.19	0.99	0	0	42	4.33	0.15	0.63	0.15	0.15	<b>0.78</b>
4	SAN4-PH2	SAN3-PH2	96.2	0.63	1.62	9	23	65	4.29	0.23	0.97	0.24	0.24	<b>1.21</b>
5	SAN7-PH2	SAN8-PH2	37	0.19	0.19	4	10	10	4.41	0.04	0.16	0.03	0.03	<b>0.19</b>
6	SAN8-PH2	SAN9-PH2	67	0.46	0.65	7	18	29	4.36	0.10	0.43	0.10	0.10	<b>0.53</b>
10	SAN10-PH2	SAN9-PH2	83.3	0.38	0.38	6	16	16	4.39	0.05	0.24	0.06	0.06	<b>0.30</b>
Phase 3	SANPLUG2-PH3	SAN9-PH2		4.71	4.71	106	277	277	4.09	0.96	3.93	0.71	0.71	<b>4.64</b>
7	SAN9-PH2	SAN15-PH2	59.7	0.4	6.14	9	23	345	4.05	1.20	4.85	0.92	0.92	<b>5.77</b>
8	SAN15-PH2	SAN3-PH2	58.9	0.42	6.56	11	29	373	4.04	1.30	5.23	0.98	0.98	<b>6.21</b>
9	SAN3-PH2	SAN2-PH2	80	0.4	8.58	7	18	457	3.99	1.59	6.33	1.29	1.29	<b>7.62</b>
11	SAN10-PH2	SAN14-PH2	87.7	0.62	0.62	19	50	50	4.32	0.17	0.74	0.09	0.09	<b>0.84</b>
12	SAN14-PH2	SAN2-PH2	54.1	0.39	1.01	12	31	81	4.27	0.28	1.20	0.15	0.15	<b>1.35</b>
13	SAN2-PH2	SAN1-PH2	80	0.35	9.94	6	16	553	3.95	1.92	7.59	1.49	1.49	<b>9.08</b>
Phase 3	SANPLUG1-PH3	SAN11-PH2		9.25	9.25	183	478	478	3.98	1.66	6.61	1.39	1.39	<b>8.00</b>
14	SAN10-PH2	SAN11-PH2	83.3	0.39	0.39	7	18	18	4.39	0.06	0.28	0.06	0.06	<b>0.34</b>
19	SANMH13	SAN12-PH2	41.6	0.11	0.11	2	5	5	4.44	0.02	0.08	0.02	0.02	
17	SAN12-PH2	SAN11-PH2	41.6	0.24	0.24	2	5	5	4.44	0.02	0.08	0.04	0.04	<b>0.12</b>
15	SAN11-PH2	SAN13-PH2	88.1	0.62	10.5	15	39	540	3.96	1.88	7.42	1.58	1.58	<b>9.00</b>
16	SAN13-PH2	SAN1-PH2	77.7	0.58	11.08	15	39	579	3.94	2.01	7.93	1.66	1.66	<b>9.59</b>
18	SAN1-PH2	SAN PLUG1	61	0.34	21.36	6	16	1148	3.76	3.99	14.99	3.20	3.20	<b>18.20</b>



**GLENELG PHASE 3 RESIDENTIAL DEVELOPMENT - EXTERNAL**

BY: PM  
CHECK: JL'A  
SUBMISSION: 2nd FSRSWM

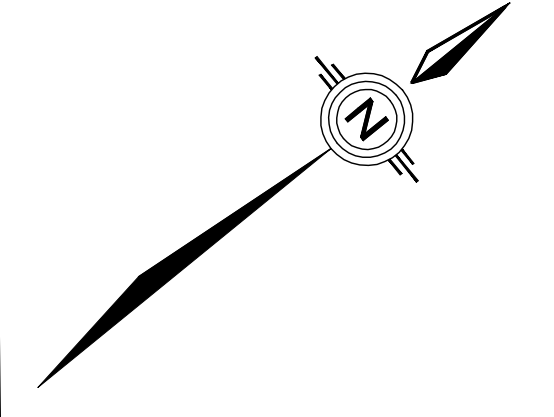
**Peak Factor (M) =**  $1+(14/4+(P/1000)^{0.5})$   
**Avg. Daily/Capita Flow =** 300 L/cap.d  
**Q infiltration =** 0.15 L/ha.s

**N = 0.013**  
**Population = 2.61** p.p.u.

CATCHMENT AREA	FROM MH	TO MH	LENGTH (m)	INC. AREA (Ha)	CUM. AREA (Ha)	LOTS	INC. POP.	TOTAL POP.	PEAK FACTOR	AVG. FLOW (L/S)	MAX FLOW (L/S)	INFIL. (L/S)	TOTAL INFIL.	COMBINED (L/S)	
	14, 15	SANMH13	SANMH6	83.29	1.18	1.18	11	29	29	4.36	0.10	0.43	0.18	0.18	<b>0.61</b>
13	SANMH13	SANMH1	93.96	0.6	0.6	14	37	37	4.34	0.13	0.55	0.09	0.09	<b>0.64</b>	
1	SANMH1	SANMH2	95.07	0.58	1.18	14	37	73	4.28	0.25	1.09	0.18	0.18	<b>1.26</b>	
of Phase 2 and some Phase	SANPLUG 1	SANMH2	19	21.36	21.36	0	0	1148	3.76	3.99	14.99	3.20	3.20	<b>18.20</b>	
2	SANMH2	SANMH3	80	0.79	23.33	12	31	1253	3.73	4.35	16.25	3.50	3.50	<b>19.75</b>	
16	SANMH14	SANMH6	87.81	0.58	0.58	11	29	29	4.36	0.10	0.43	0.09	0.09	<b>0.52</b>	
5A	SANMH6	SANMH5A	26.09	0.1	1.86	1	3	60	4.30	0.21	0.90	0.28	0.28	<b>1.17</b>	
5	SANMH5A	SANMH5	57.2	0.37	2.23	8	21	81	4.27	0.28	1.20	0.33	0.33	<b>1.53</b>	
4	SANMH5	SANMH4	64.46	0.38	2.61	12	31	112	4.23	0.39	1.65	0.39	0.39	<b>2.04</b>	
3	SANMH4	SANMH3	64.46	0.26	2.87	7	18	131	4.21	0.45	1.91	0.43	0.43	<b>2.34</b>	
7	SANMH3	SANMH8	80	0.56	26.76	10	26	1409	3.70	4.89	18.10	4.01	4.01	<b>22.12</b>	
17	SANMH14	SANMH15	87.66	0.64	0.64	12	31	31	4.35	0.11	0.47	0.10	0.10	<b>0.57</b>	
18	SANMH15	SANMH16	18.59	0.11	0.75	0	0	31	4.35	0.11	0.47	0.11	0.11	<b>0.59</b>	
19	SANMH16	SANMH12	66.74	0.43	1.18	4	10	42	4.33	0.15	0.63	0.18	0.18	<b>0.80</b>	
21	SANMH18	SANMH17	25.8	0.33	0.33	6	16	16	4.39	0.05	0.24	0.05	0.05	<b>0.29</b>	
20	SANMH17	SANMH12	24.74	0.16	0.49	2	5	21	4.38	0.07	0.32	0.07	0.07	<b>0.39</b>	
12	SANMH12	SANMH11	58.04	0.34	2.01	6	16	78	4.27	0.27	1.16	0.30	0.30	<b>1.46</b>	
11	SANMH11	SANMH7	58.03	0.32	2.33	5	13	91	4.25	0.32	1.35	0.35	0.35	<b>1.70</b>	
6	SANMH5	SANMH7	83.29	0.48	0.48	7	18	18	4.39	0.06	0.28	0.07	0.07	<b>0.35</b>	
10	SANMH7	SANMH10	76.05	0.46	3.27	13	34	144	4.20	0.50	2.09	0.49	0.49	<b>2.58</b>	
9	SANMH10	SANMH8	76.05	0.43	3.7	12	31	175	4.17	0.61	2.53	0.56	0.56	<b>3.09</b>	
8	SANMH8	SANMH9	65.5	0.43	30.89	8	21	1605	3.66	5.57	20.39	4.63	4.63	<b>25.02</b>	
8A	SANMH9	SANMH106	69.95	0.45	31.34	8	21	1626	3.65	5.65	20.63	4.70	4.70	<b>25.33</b>	
External	MH153	SANMH106	SANMH105	65.85	0.00	31.34	0	0	1626	3.65	5.65	20.63	4.70	4.70	<b>25.33</b>

NOTE: SANITARY MH 100 SERIES REPRESENT EXTERNAL MANHOLES

# TOWNSHIP OF SOUTHGATE

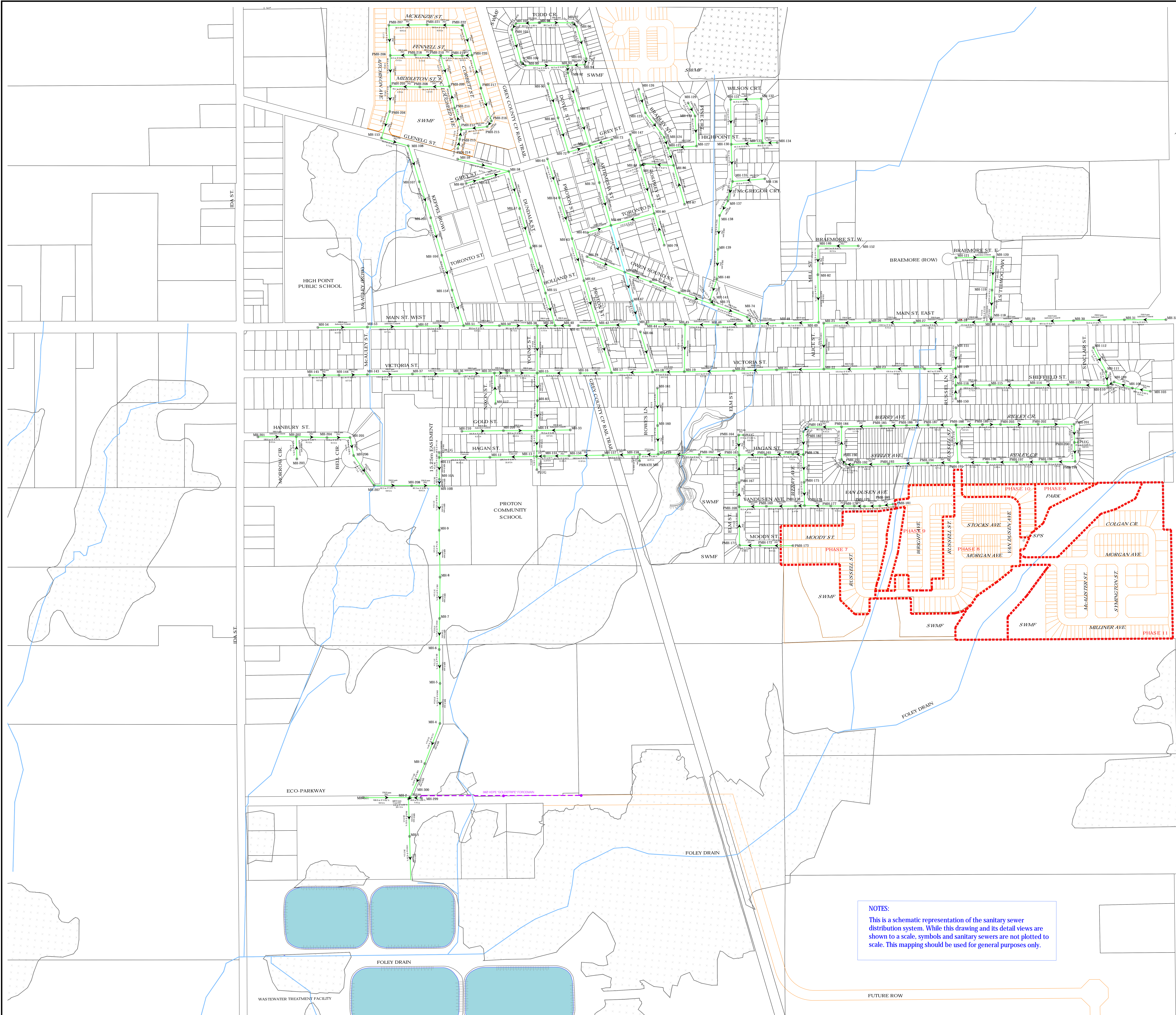


KING'S HIGHWAY No. 10

KING'S HIGHWAY No. 10

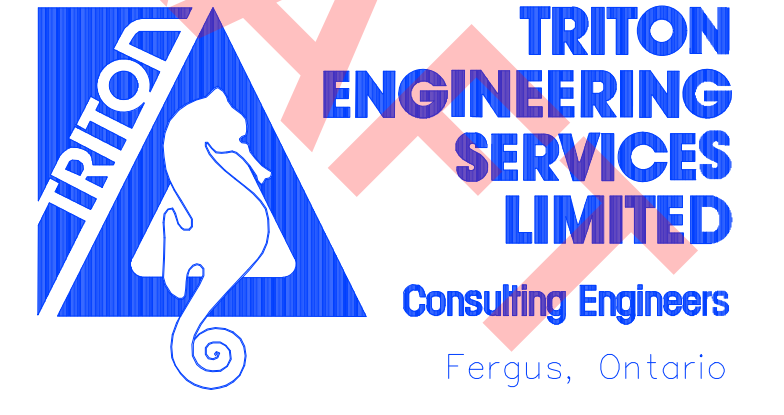
### LEGEND:

- PROPERTY**
  - EXISTING PROPERTY LINE
  - - - DRAFT PLAN APPROVED DEVELOPMENT PARCEL
  - - - DRAFT PLAN APPROVED DEVELOPMENT PHASES
  - WATER COURSES
  - WETLAND (GRCA)
- MANHOLES**
  - ⊙ SANITARY MANHOLE
  - ⊙ MH 159 MUNICIPALLY OWNED MANHOLE NUMBER
  - ⊙ PMH 200 MANHOLE NOT YET ADOPTED BY MUNICIPALITY
- FLOW/CAPACITY (%)**
  - < 20.0
  - < 40.0
  - < 60.0
  - < 80.0
  - < 100.0
- PIPE MATERIAL**
  - AC ASBESTOS CEMENT
  - CONC CONCRETE
  - PVC POLYVINYL CHLORIDE
- DIAMETER MATERIAL**
  - LENGTH @ SLOPE — FLOW/CAPACITY
- FOLEY**
  - IN-LINE CLEAN OUT AND SHUT-OFF VALVE
  - FORCEMAIN



## DUNDALK SANITARY COLLECTION SYSTEM

FEBRUARY 2022  
 SCALE 1:3,000  
 A4179 R02 / A4160 R44/R45



WASTEWATER TREATMENT FACILITY

FUTURE ROW

**DOWN STREAM SANITARY SEWER CAPACITY ANALYSIS - GLENELG PHASE 3**

CATCHMENT AREA	FROM MH	TO MH	LENGTH (m)	COMBINED (L/S)	Combined + additional	DIA. (mm)	SLOPE (%)	CAP. (l/s)	VEL. (m/s)	Percent Full
<b>Additional flow coming into MH-32 From Hwy 10</b>	MH-32	MH-31	93	0	0	250	0.25%	<b>29.73</b>	0.61	0%
	MH-31	MH-30	93	0.1	0.1	250	0.26%	<b>30.32</b>	0.62	0%
	MH-30	MH-29	99.4	0.5	0.5	250	0.26%	<b>30.32</b>	0.62	2%
	MH-29	<b>MH-88</b>	105.8	1.2	1.2	250	0.29%	<b>32.02</b>	0.65	4%
<b>Additional flow coming into MH-120 From Braemore St E</b>	MH-120	MH-119	85	0.3	0.3	250	0.28%	<b>31.47</b>	0.64	1%
	MH-119	MH-118	71.6	0.3	0.3	250	0.29%	<b>32.02</b>	0.65	1%
	MH-118	<b>MH-88</b>	10.4	0.4	0.4	250	2.03%	<b>84.73</b>	1.73	0%
	<b>MH-88</b>	MH-28	77.1	1.6	1.6	250	0.23%	<b>28.52</b>	0.58	6%
	MH-28	MH-27	118.9	1.9	1.9	250	0.42%	<b>38.54</b>	0.79	5%
	MH-27	MH-26	118.6	2.2	2.2	250	0.40%	<b>37.61</b>	0.77	6%
	MH-26	MH-25	119.5	2.4	2.4	250	0.43%	<b>39.00</b>	0.79	6%
	MH-25	MH-22	118.9	2.7	2.7	250	0.45%	<b>39.89</b>	0.81	7%
	MH-22	MH-21	118.6	5.6	5.6	250	1.43%	<b>71.11</b>	1.45	8%
	MH-21	MH-20	118.3	5.9	5.9	300	0.26%	<b>49.31</b>	0.70	12%
	MH-20	<b>MH-19</b>	117.7	6.2	6.2	300	0.45%	<b>64.87</b>	0.92	10%
<b>Additional flow coming into MH-152 From Braemore St W</b>	MH-152	MH-146	104.2	0.2	0.2	250	0.42%	<b>38.54</b>	0.79	1%
	MH-146	MH-82	74.1	0.4	0.4	250	0.46%	<b>40.33</b>	0.82	1%
	MH-82	MH-49	126.2	0.6	0.6	250	0.27%	<b>30.90</b>	0.63	2%
	MH-49	MH-48	95.7	0.9	0.9	250	0.22%	<b>27.89</b>	0.57	3%
	MH-48	<b>MH-47</b>	94.5	1.2	1.2	250	0.33%	<b>34.16</b>	0.70	4%
<b>Additional flow coming into MH-134 From Highpoint St</b>	MH-134	MH-133	38	0.1	0.1	200	1.29%	<b>37.25</b>	1.19	0%
	MH-133	MH-130	81.5	0.4	0.4	200	0.59%	<b>25.19</b>	0.80	2%
	MH-130	MH-135	94.1	1.2	1.2	200	0.45%	<b>22.00</b>	0.70	5%
	MH-135	MH-137	57.1	1.5	1.5	200	0.49%	<b>22.96</b>	0.73	7%
	MH-137	MH-138	48.4	1.6	1.6	200	0.37%	<b>19.95</b>	0.64	8%
	MH-138	MH-139	99.2	1.6	1.6	200	0.36%	<b>19.68</b>	0.63	8%
	MH-139	MH-140	61.5	1.6	1.6	200	0.44%	<b>21.76</b>	0.69	7%
	MH-140	MH-141	53.5	1.6	1.6	200	0.41%	<b>21.00</b>	0.67	8%
	MH-141	MH-75	14.4	1.6	1.6	200	0.21%	<b>15.03</b>	0.48	11%
	MH-75	MH-74	91.4	1.8	1.8	200	0.39%	<b>20.48</b>	0.65	9%
	MH-74	<b>MH-47</b>	20.7	2.4	2.4	200	0.77%	<b>28.78</b>	0.92	8%
	<b>MH-47</b>	MH-46	79.3	3.8	3.8	250	0.42%	<b>38.54</b>	0.79	10%
	MH-46	MH-45	71.6	3.9	3.9	250	0.40%	<b>37.61</b>	0.77	10%
	MH-45	<b>MH-19</b>	124.1	4.1	4.1	250	0.40%	<b>37.61</b>	0.77	11%
	<b>MH-19</b>	MH-18	87.8	10.2	10.2	375	0.42%	<b>113.63</b>	1.03	9%
	MH-18	<b>MH-17</b>	110.6	10.7	10.7	375	0.41%	<b>112.27</b>	1.02	10%
	<b>Additional flow coming from Glenelg Phase 3 From White Rose Phase 3</b>					6.19				
<b>From Bradely St</b>					3.26					
	MH-126	MH-125	64	3.46	9.65	200	0.44%	<b>21.76</b>	0.69	44%
	MH-125	MH-124	75	3.66	9.85	200	0.52%	<b>23.65</b>	0.75	42%
	MH-124	MH-123	36	3.76	9.95	200	0.42%	<b>21.26</b>	0.68	47%
	MH-123	MH-86	43.3	4.36	10.55	200	0.46%	<b>22.24</b>	0.71	47%
	MH-86	MH-85	71.9	4.56	10.75	200	0.47%	<b>22.49</b>	0.72	48%
	MH-85	MH-80	129.5	4.56	10.75	200	0.41%	<b>21.00</b>	0.67	51%
	MH-80	MH-69	112.2	5.46	11.65	200	0.43%	<b>21.51</b>	0.68	54%
<b>Toronto Street to Owen Sound Street Leg</b>	MH-69	MH-68	124.7	9.16	15.35	200	0.37%	<b>19.95</b>	0.64	77%
	MH-68	MH-67	71	9.56	15.75	250	0.23%	<b>28.52</b>	0.58	55%
	MH-67	MH-43	69.8	9.56	15.75	250	0.26%	<b>30.32</b>	0.62	52%
	MH-43	MH-42	112.5	9.66	15.85	250	0.38%	<b>36.66</b>	0.75	43%
	MH-42	<b>MH-17</b>	128.6	10.16	16.35	250	0.43%	<b>39.00</b>	0.79	42%
	<b>MH-17</b>	MH-16	93	17.1	23.29	450	0.40%	<b>180.32</b>	1.13	13%
	MH-16	<b>MH-15</b>	93.9	17.3	23.49	450	0.39%	<b>178.05</b>	1.12	13%



**DOWN STREAM SANITARY SEWER CAPACITY ANALYSIS - GLENELG PHASE 3**

CATCHMENT AREA	FROM MH	TO MH	LENGTH (m)	COMBINED (L/S)	Combined + additional	DIA. (mm)	SLOPE (%)	CAP. (l/s)	VEL. (m/s)	Percent Full	
<b>Additional flow coming into MH-153</b>					<b>25.33</b>						
<b>From Glenelg</b>	MH-153	MH-108	65.9	0	25.33	250	0.29%	<b>32.02</b>	0.65	79%	
	MH-108	MH-107	100	0	25.33	250	0.30%	<b>32.57</b>	0.66	78%	
	MH-107	MH-105	100	0.1	25.43	250	0.30%	<b>32.57</b>	0.66	78%	
	MH-105	MH-104	100	0.1	25.43	250	0.30%	<b>32.57</b>	0.66	78%	
	MH-104	MH-154	92	0.2	25.53	250	0.30%	<b>32.57</b>	0.66	78%	
	MH-154	MH-51	97	0.2	25.53	250	0.30%	<b>32.57</b>	0.66	78%	
	MH-51	MH-50	89.6	1.5	26.83	300	0.15%	<b>37.45</b>	0.53	72%	
	MH-50	MH-38	99.1	1.6	26.93	300	0.22%	<b>45.36</b>	0.64	59%	
	MH-38	<b>MH-15</b>	122.2	1.9	27.23	300	0.36%	<b>58.02</b>	0.82	47%	
	<b>MH-15</b>	MH-83	71.9	25.6	57.12	525	0.39%	<b>268.57</b>	1.24	21%	
	MH-83	MH-14	75.9	25.8	57.32	525	0.20%	<b>192.33</b>	0.89	30%	
	MH-14	MH-13	68	26.4	57.92	525	0.29%	<b>231.60</b>	1.07	25%	
	MH-13	MH-12	126.2	35.9	67.42	525	0.36%	<b>258.04</b>	1.19	26%	
	MH-12	MH-11	125.9	36.4	67.92	525	0.37%	<b>261.60</b>	1.21	26%	
	MH-11	MH-10A	80.2	36.4	67.92	600	0.22%	<b>288.00</b>	1.02	24%	
	MH-10A	MH-10B	13.3	36.5	68.02	600	0.08%	<b>173.67</b>	0.61	39%	
	<b>From Hanbury St</b>	MH-201	MH-202	100.6	0.3	0.3	200	0.71%	<b>27.64</b>	0.88	1%
		MH-202	MH-204	72.5	0.5	0.5	250	0.28%	<b>31.47</b>	0.64	2%
		MH-204	MH-205	72.8	0.5	0.5	250	0.27%	<b>30.90</b>	0.63	2%
MH-205		MH206	46.6	0.6	0.6	250	0.28%	<b>31.47</b>	0.64	2%	
MH-206		MH-207	104.2	0.7	0.7	250	0.28%	<b>31.47</b>	0.64	2%	
MH-207		MH-208	82.3	0.8	0.8	250	0.27%	<b>30.90</b>	0.63	3%	
MH-208		MH-10B	82.3	0.8	0.8	250	0.28%	<b>31.47</b>	0.64	3%	
MH-10B		MH-9	95.8	37.3	136.84	600	0.22%	<b>288.00</b>	1.02	48%	
MH-9		MH-8	92.7	37.4	136.94	600	0.25%	<b>307.01</b>	1.09	45%	
MH-8		MH-7	102.7	37.5	137.04	600	0.18%	<b>260.50</b>	0.92	53%	
<b>Wastewater Treatment Facility</b>	MH-7	MH-6	104.5	37.6	137.14	600	0.14%	<b>229.74</b>	0.81	60%	
	MH-6	MH-5	99.4	37.7	137.24	600	0.22%	<b>288.00</b>	1.02	48%	
	MH-5	MH-4	104.6	37.8	137.34	600	0.25%	<b>307.01</b>	1.09	45%	
	MH-4	MH-3	111.9	37.9	137.44	600	0.18%	<b>260.50</b>	0.92	53%	
	MH-3	MH-2	106.4	38.1	137.64	600	0.24%	<b>300.80</b>	1.06	46%	
	MH-2	MH-1	94.8	39.2	138.74	600	0.25%	<b>307.01</b>	1.09	45%	
	MH-1	WWTF	110	39.3	138.84	600	0.19%	<b>267.64</b>	0.95	52%	