



SHORELINE
STATION
DATA

SITE CONSTRAINTS (SERVICE TIMES) – WITH RENTON (2023)

SITE WITH RENTON

		SATURDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	12:00	23:00	24:00	23:00	14:00
SELF HAUL	30:00	18:00	29:00	29:00	29:00	19:00

		WEEKDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	13:00	13:00	13:00	19:00	13:00
SELF HAUL	30:00	17:00	18:00	18:00	22:00	18:00

Target – Service times defined in Solid Waste Transfer and Management Plan, December 2007.

Existing – Results of calibrated model, based on data collected in September, 2014.

SITE CONSTRAINTS (SERVICE TIMES) – WITHOUT RENTON (2023)

SITE WITHOUT RENTON

		SATURDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	12:00	23:00	26:00	23:00	14:00
SELF HAUL	30:00	18:00	29:00	35:00	29:00	19:00

		WEEKDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	13:00	13:00	18:00	25:00	13:00
SELF HAUL	30:00	17:00	18:00	20:00	38:00	18:00

Target – Service times defined in Solid Waste Transfer and Management Plan, December 2007.

Existing – Results of calibrated model, based on data collected in September, 2014.

CONCEPT 0: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	73 vehicles/hr.	
Saturday:	66 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	58 vehicles/hr.	
Saturday:	88 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	3 vehicles	
Saturday:	6 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:18	0:13
Saturday	0:29	0:23
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:17	0:13
Saturday	0:18	0:12

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demand (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	56	85
Provide Wait Time Info	1%	57	87
Bulky Collection	3.7%	56	85
Mandatory Collection	13.7%	51	77
Lower Regional Direct	0%	58	88
Ban Yard/Wood Waste	34%	40	60
Peak Pricing	0%	58	88
Higher Minimum Fee (System Wide)	7.5%	54	82
Drop Box (Northeast)	2%	57	86

Other Site Improvements:

- **Second Outbound Scale**
- **Additional TSO on commercial tipping floor**

CONCEPT 1: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	73 vehicles/hr.	
Saturday:	66 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	67 vehicles/hr.	
Saturday:	96 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	3 vehicles	
Saturday:	46 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:20	0:18
Saturday	0:35	0:26
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:17	0:13
Saturday	0:18	0:12

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demand (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	65	93
Provide Wait Time Info	1%	66	95
Bulky Collection	3.7%	65	93
Mandatory Collection	13.7%	60	85
Lower Regional Direct	0%	67	96
Ban Yard/Wood Waste	34%	49	68
Peak Pricing	0%	67	96
Higher Minimum Fee (System Wide)	7.5%	63	90
Drop Box (Northeast)	2%	66	94

Other Site Improvements:

- **Second Outbound Scale**
- **Additional TSO on commercial tipping floor**

CONCEPT 2: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	73 vehicles/hr.	
Saturday:	66 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	99 vehicles/hr.	
Saturday:	88 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	11 vehicles	
Saturday:	6 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:38	0:25
Saturday	0:29	0:23
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:17	0:13
Saturday	0:18	0:12

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demand (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	95	85
Provide Wait Time Info	1%	98	87
Bulky Collection	3.7%	96	85
Mandatory Collection	13.7%	86	77
Lower Regional Direct	0%	99	88
Ban Yard/Wood Waste	34%	68	60
Peak Pricing	0%	99	88
Higher Minimum Fee (System Wide)	7.5%	92	82
Drop Box (Northeast)	2%	97	86

Other Site Improvements:

- **Second Outbound Scale**
- **Additional TSO on commercial tipping floor**

CONCEPT 3: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON STATION 2023)

Peak Hour Capacity		
Weekday:	73 vehicles/hr.	
Saturday:	66 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	46 vehicles/hr.	
Saturday:	69 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	2 vehicles	
Saturday:	3 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:18	0:13
Saturday	0:19	0:14
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:17	0:13
Saturday	0:18	0:12

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demand (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	44	66
Provide Wait Time Info	1%	46	68
Bulky Collection	3.7%	44	67
Mandatory Collection	13.7%	40	60
Lower Regional Direct	0%	46	69
Ban Yard/Wood Waste	34%	32	47
Peak Pricing	0%	46	69
Higher Minimum Fee (System Wide)	7.5%	43	64
Drop Box (Northeast)	2%	45	68

Other Site Improvements:

- Second Outbound Scale
- Additional TSO on commercial tipping floor



**BOW LAKE
STATION
DATA**

SITE CONSTRAINTS (SERVICE TIMES) – WITH RENTON (2023)

SITE WITH RENTON

		SATURDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	13:00	17:00	17:00	17:00	17:00
SELF HAUL	30:00	27:00	26:00	26:00	26:00	27:00

		WEEKDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	13:00	20:00	19:00	20:00	18:00
SELF HAUL	30:00	26:00	28:00	27:00	28:00	28:00

Target – Service times defined in Solid Waste Transfer and Management Plan, December 2007.

Existing – Results of calibrated model, based on data collected in September, 2014.

SITE CONSTRAINTS (SERVICE TIMES) – WITHOUT RENTON (2023)

SITE WITHOUT RENTON

		SATURDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	13:00	18:00	18:00	19:00	18:00
SELF HAUL	30:00	27:00	27:00	27:00	26:00	27:00

		WEEKDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	13:00	22:00	21:00	20:00	22:00
SELF HAUL	30:00	26:00	29:00	29:00	28:00	29:00

Target – Service times defined in Solid Waste Transfer and Management Plan, December 2007.

Existing – Results of calibrated model, based on data collected in September, 2014.

CONCEPT 0: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	66 vehicles/hr.	
Saturday:	73 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	115 vehicles/hr.	
Saturday:	145 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	98 vehicles	
Saturday:	205 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:29	0:22
Saturday	0:27	0:18
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:26	0:13
Saturday	0:27	0:13

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	0%	115	145
Provide Wait Time Info	1%	114	144
Bulky Collection	3.3%	112	141
Mandatory Collection	14.9%	102	125
Lower Regional Direct	5%	111	138
Ban Yard/Wood Waste	34%	86	99
Peak Pricing	0%	115	145
Higher Minimum Fee (System Wide)	7.5%	109	135
Drop Box (Southeast)	5%	111	138

Other Site Improvements:

- Second Inbound Scale
- Second Outbound Scale

CONCEPT 1: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	66 vehicles/hr.	
Saturday:	73 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	115 vehicles/hr.	
Saturday:	145 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	95 vehicles	
Saturday:	202 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:29	0:21
Saturday	0:27	0:18
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:26	0:13
Saturday	0:27	0:13

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	0%	115	145
Provide Wait Time Info	1%	114	144
Bulky Collection	3.3%	112	141
Mandatory Collection	14.9%	102	125
Lower Regional Direct	5%	111	138
Ban Yard/Wood Waste	34%	86	99
Peak Pricing	0%	115	145
Higher Minimum Fee (System Wide)	7.5%	109	135
Drop Box (Southeast)	5%	111	138

Other Site Improvements:

- Second Inbound Scale
- Second Outbound Scale

CONCEPT 2: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	66 vehicles/hr.	
Saturday:	73 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	123 vehicles/hr.	
Saturday:	157 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	128 vehicles	
Saturday:	235 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:28	0:20
Saturday	0:26	0:19
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:26	0:13
Saturday	0:27	0:13

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	0%	123	157
Provide Wait Time Info	1%	122	156
Bulky Collection	3.3%	120	152
Mandatory Collection	14.9%	109	135
Lower Regional Direct	5%	118	150
Ban Yard/Wood Waste	34%	91	107
Peak Pricing	0%	116	157
Higher Minimum Fee (System Wide)	7.5%	110	146
Drop Box (Southeast)	5%	121	150

Other Site Improvements:

- Second Inbound Scale
- Second Outbound Scale

CONCEPT 3: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	66 vehicles/hr.	
Saturday:	73 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	116 vehicles/hr.	
Saturday:	146 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	98 vehicles	
Saturday:	205 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:29	0:22
Saturday	0:27	0:18
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:26	0:13
Saturday	0:27	0:13

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	0%	127	146
Provide Wait Time Info	1%	130	145
Bulky Collection	3.3%	127	142
Mandatory Collection	14.9%	127	126
Lower Regional Direct	5%	131	139
Ban Yard/Wood Waste	34%	95	100
Peak Pricing	0%	123	146
Higher Minimum Fee (System Wide)	7.5%	116	136
Drop Box (Southeast)	5%	118	139

Other Site Improvements:

- Second Inbound Scale
- Second Outbound Scale



FACTORIA
STATION
DATA

SITE CONSTRAINTS (SERVICE TIMES) – WITH RENTON (2023)

SITE WITH RENTON

		SATURDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	15:00	24:00	24:00	20:00	15:00
SELF HAUL	30:00	22:00	52:00	52:00	45:00	22:00

		WEEKDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	11:00	21:00	22:00	13:00	12:00
SELF HAUL	30:00	23:00	1:06:00	1:07:00	30:00	24:00

Target – Service times defined in Solid Waste Transfer and Management Plan, December 2007.

Existing – Represents 2014 volumes modeled with future station configuration.

SITE CONSTRAINTS (SERVICE TIMES) – WITHOUT RENTON (2023)

SITE WITHOUT RENTON

		SATURDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	15:00	23:00	23:00	23:00	15:00
SELF HAUL	30:00	22:00	54:00	54:00	49:00	25:00

		WEEKDAY				
	TARGET	EXISTING	CONCEPT 0	CONCEPT 1	CONCEPT 2	CONCEPT 3
COMMERCIAL HAUL	16:00	11:00	22:00	21:00	13:00	12:00
SELF HAUL	30:00	23:00	1:06:00	1:09:00	28:00	38:00

Target – Service times defined in Solid Waste Transfer and Management Plan, December 2007.

Existing – Represents 2014 volumes modeled with future station configuration.

CONCEPT 0: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	67 vehicles/hr.	
Saturday:	100 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	131 vehicles/hr.	
Saturday:	171 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	131 vehicles	
Saturday:	184 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	1:06	0:22
Saturday	0:54	0:23
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:23	0:11
Saturday	0:22	0:15

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	127	165
Provide Wait Time Info	1%	130	169
Bulky Collection	3.4%	127	166
Mandatory Collection	4%	127	165
Lower Regional Direct	0%	131	171
Ban Yard/Wood Waste	34%	95	118
Peak Pricing	15%	115	147
Higher Minimum Fee	20%	110	140
Drop Box (Southeast)	9%	121	157

Other Potential Site Improvements:

- Second Outbound Scale
- Unloading Assistance
- Internal Queue Lane

CONCEPT 1: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	67 vehicles/hr.	
Saturday:	100 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	124 vehicles/hr.	
Saturday:	167 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	126 vehicles	
Saturday:	177 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	1:09	0:21
Saturday	0:54	0:23
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:23	0:11
Saturday	0:22	0:15

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	120	161
Provide Wait Time Info	1%	123	165
Bulky Collection	3.4%	120	162
Mandatory Collection	4%	120	161
Lower Regional Direct	0%	124	167
Ban Yard/Wood Waste	34%	88	114
Peak Pricing	15%	108	143
Higher Minimum Fee	20%	103	136
Drop Box (Southeast)	9%	114	153

Other Potential Site Improvements:

- Second Outbound Scale
- Unloading Assistance
- Internal Queue Lane

CONCEPT 2: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	67 vehicles/hr.	
Saturday:	100 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	109 vehicles/hr.	
Saturday:	127 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	4 vehicles	
Saturday:	58 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:28	0:13
Saturday	0:49	0:23
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:23	0:11
Saturday	0:22	0:15

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	105	122
Provide Wait Time Info	1%	108	126
Bulky Collection	3.4%	106	123
Mandatory Collection	4%	105	122
Lower Regional Direct	0%	109	127
Ban Yard/Wood Waste	34%	77	89
Peak Pricing	15%	95	110
Higher Minimum Fee	20%	90	104
Drop Box (Southeast)	9%	101	117

Other Potential Site Improvements:

- Second Outbound Scale
- Unloading Assistance
- **Internal Queue Lane**

CONCEPT 3: MITIGATION STRATEGY SUMMARY

(WITHOUT RENTON 2023)

Peak Hour Capacity		
Weekday:	67 vehicles/hr.	
Saturday:	100 vehicles/hr.	
Unmitigated Peak Demand		
Weekday:	71 vehicles/hr.	
Saturday:	93 vehicles/hr.	
Unmitigated Peak Queue Length		
Weekday:	2 vehicles	
Saturday:	3 vehicles	
Unmitigated Peak Scale to Scale Time		
	SH	CM
Weekday	0:38	0:12
Saturday	0:25	0:15
Existing Peak Scale to Scale Time		
	SH	CM
Weekday	0:23	0:11
Saturday	0:22	0:15

Mitigation Strategy	Vehicle Reduction	Mitigated Peak Hour Demands (Vehicles)	
		Weekday	Saturday
Extend Hours	4%	69	90
Provide Wait Time Info	1%	70	92
Bulky Collection	3.4%	69	90
Mandatory Collection	4%	69	90
Lower Regional Direct	0%	71	93
Ban Yard/Wood Waste	34%	51	64
Peak Pricing	15%	62	80
Higher Minimum Fee	20%	59	76
Drop Box (Southeast)	9%	66	85

Other Potential Site Improvements:

- Second Outbound Scale
- Unloading Assistance
- Internal Queue Lane