

BASE	Shoreline	Bow Lake	Factoria	Northeast	South County
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2016 phase 1 (garbage) 2017 phase 2 (recycle & HHW)	2020	2019
Corresponding closing facility	none	none	close Renton 2018	close Houghton 2021	close Algona 2020
Garbage service	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial & self-haul all operating hours
Recycling service	recycling scenario 3	recycling scenario 3	recycling scenario 3	recycling scenario 3	recycling scenario 3
HHW service	none	none	6 days a week	none	none
Space for future services	none	space available for future HHW or alternative processing	none as currently planned, could retain Eastgate property for future services	plan for future alternative processing	plan for future HHW or alternative processing
Green building	LEED Platinum	LEED Gold	LEED Gold	LEED Gold	LEED Gold
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	weekdays 24 hours weekends 8:30 to 5:30	weekdays ~ 7 to 4:30 weekends 8:30 to 5:30	weekdays ~ 8 to 5:30 weekends 8:30 to 5:30	weekdays ~ 7 to 4:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage	3 days garbage	3 days garbage
Tipping floor sq. ft.	61,000	64,000	53,000	53,000	53,000
Fully enclosed tipping building	yes	yes	yes	yes	yes
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 self-haul – 17	commercial – 3 self-haul – 10 weekday; 14 weekend	commercial – 3 self-haul – 10 weekday; 14 weekend	commercial – 3 self-haul – 11 weekday; 17 weekend
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	1 pre-load compactor space for 2 nd	1 pre-load compactor space for 2 nd	1 pre-load compactor space for 2 nd

BASE	Shoreline	Bow Lake	Factoria	Northeast	South County
Payload assumption	garbage 25 tons yard waste 16 tons				
Chutes	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers
Loading yard waste & clean wood	top loaded into walking floor trailers				
On-site fuel	yes	yes	yes	yes	yes
Capital cost	\$39 million	\$88.5 million	\$22 million (sunk) \$58 million (forecast, 2013\$)	\$90 million (forecast, 2013\$)	\$6 million (sunk) \$74 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: A	commercial: A self-haul: B	commercial: A self-haul: C	commercial: A self-haul: B	commercial: A self-haul: B
Vehicle capacity LOS 2040	commercial: A self-haul: A	commercial: A self-haul: B	commercial: A self-haul: A	commercial: A self-haul: C	commercial: A self-haul: C
Tonnage capacity LOS 2027	A	A	A	A	A
Tonnage capacity LOS 2040	A	A	A	A	A

Alternative A	Shoreline	Bow Lake	Factoria (commercial building & self-haul building)	South County
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2020 self-haul bldg. 2021 commercial bldg.	2019
Corresponding closing facility	none	close Renton 2018	close Houghton 2021	close Algona 2020
Garbage service	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial & self-haul all operating hours
Recycling service	recycling scenario 3	recycling scenario 3	recycling scenario 3	recycling scenario 3
HHW service	none	none	6 days a week	none
Space for future services	none	space available for future HHW or alternative processing	plan for future alternative processing	plan for future HHW or alternative processing
Green building	LEED Platinum	LEED Gold	LEED Gold	LEED Gold
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	weekdays 24 hours weekends 8:30 to 5:30	commercial: weekdays ~ 6:30 a.m. to 11 p.m. closed weekends self-haul: weekdays ~ 8 to 5:30 weekends 8:30 to 5:30	weekdays ~ 7 to 4:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage	3 days garbage
Tipping floor sq. ft.	61,000	64,000	commercial – 33,000 self-haul – 24,000	53,000
Fully enclosed tipping building	yes	yes	yes	yes
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	commercial: scalehouse – 1 scales – 1 in, 1 out self-haul: scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 self-haul – 17	commercial – 4 self-haul – 24 weekday; 24 weekend	commercial – 3 self-haul – 11 weekday; 17 weekend

Alternative A	Shoreline	Bow Lake	Factoria (commercial building & self-haul building)	South County
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors in commercial building; 2 nd can process fewer tph No compactor in self-haul building, but space available	1 pre-load compactor space for 2 nd
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	commercial garbage 25 tons self-haul garbage 18 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons
Chutes	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	commercial: 1 available for garbage or yard waste as needed self-haul: 4 for garbage & yard waste/clean wood	1 for yard waste/clean wood and available for garbage as needed
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	commercial – unloaded on floor, pushed into compactor, compacted into fully enclosed containers self-haul – unloaded on floor, pushed into top loaded walking floor trailers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers
Loading yard waste & clean wood	top loaded into walking floor trailers	top loaded into walking floor trailers	unloaded on floor, top loaded into walking floor trailers	top loaded into walking floor trailers
On-site fuel	yes	yes	yes (commercial building)	yes
Capital cost	\$39 million	\$88.5 million	\$112 million (forecast, 2013\$)	\$6 million (sunk) \$74 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: B	commercial: A self-haul: B	commercial: B self-haul: C	commercial: A self-haul: B
Vehicle capacity LOS 2040	commercial: A self-haul: B	commercial: A self-haul: B	commercial: B self-haul: B	commercial: A self-haul: C
Tonnage capacity LOS 2027	A	A	commercial: B self-haul: A	A
Tonnage capacity LOS 2040	A	A	commercial: A self-haul: A	A

Alternative A*	Shoreline	Bow Lake	Factoria	Houghton (self-haul only)	South County
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2016 phase 1 (garbage) 2017 phase 2 (recycle, HHW)	Renovated station transitions to self-haul only 2017	2019
Corresponding closing facility	none	none	close Renton 2018	none	close Algona 2020
Garbage service	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial only weekdays self-haul weekends	self-haul only	commercial & self-haul all operating hours
Recycling service	recycling scenario 3	recycling scenario 3	recycling scenario 3 limited hours	yard waste in one chute limited other, e.g., curbside mix OR scrap metal & appliances	recycling scenario 3
HHW service	none	none	6 days a week	none	none
Space for future services	none	space available for future HHW or alternative processing	none as currently planned, could retain Eastgate property for future services	none	plan for future HHW or alternative processing
Green building	LEED Platinum	LEED Gold	LEED Gold	scorecard	LEED Gold
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	weekdays 24 hours weekends 8:30 to 5:30	commercial only weekdays ~ 6:30 a.m. to 11 p.m. self-haul weekends 8:30 to 5:30	weekdays ~ 8 to 5:30 weekends 8:30 to 5:30	weekdays ~ 7 to 4:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage	none	3 days garbage
Tipping floor sq. ft.	61,000	64,000	53,000	12,000	53,000
Fully enclosed tipping building	yes	yes	yes	no	yes
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 self-haul – 17	commercial – 6 weekdays self-haul – 14 weekend	self-haul – 16 total, 8 for garbage and 8 for yard waste	commercial – 3 self-haul – 11 weekday; 17 weekend



The contents of this document explore alternatives without regard to policy. Additional environmental and financial reviews may be necessary to fully understand the implications of any given alternative. Policy decisions are left to a higher authority level for application at an appropriate time. Statistics, charts, and numbers are for research and comparison purposes only and should not be applied out of context.

Alternative A*	Shoreline	Bow Lake	Factoria	Houghton (self-haul only)	South County
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors; 2 nd can process fewer tph	none	1 pre-load compactor space for 2 nd
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 17 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons
Chutes	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	2 total – 1 for garbage and 1 for yard waste/clean wood	1 for yard waste/clean wood and available for garbage as needed
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	top loaded into walking floor trailers (direct dump)	unloaded on floor, pushed into compactor, compacted into fully enclosed containers
Loading yard waste & clean wood	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers
On-site fuel	yes	yes	yes	no	yes
Capital cost	\$39 million	\$88.5 million	\$22 million (sunk) \$60 million (forecast, 2013\$)	\$1.7 million (forecast, 2013\$)	\$6 million (sunk) \$74 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: B	commercial: A self-haul: B	commercial: A self-haul: E	commercial: NA self-haul: F	commercial: A self-haul: B
Vehicle capacity LOS 2040	commercial: A self-haul: B	commercial: A self-haul: B	commercial: A self-haul: E	commercial: NA self-haul: F	commercial: A self-haul: C
Tonnage capacity LOS 2027	A	A	B	A	A
Tonnage capacity LOS 2040	A	A	A	A	A

Alternative B	Shoreline	Bow Lake	Northeast	South County
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2020	2019
Corresponding closing facility	none	close Renton 2018	close Factoria & Houghton 2021	close Algona 2020
Garbage service	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial & self-haul all operating hours	commercial & self-haul all operating hours
Recycling service	recycling scenario 3	recycling scenario 3	recycling scenario 3	recycling scenario 3
HHW service	none	none	6 days per week	none
Space for future services	none	space available for future HHW or alternative processing	plan for future alternative processing	plan for future HHW or alternative processing
Green building	LEED Platinum	LEED Gold	LEED Gold	LEED Gold
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	weekdays 24 hours weekends 8:30 to 5:30	weekdays ~ 6:30 a.m. to 11 p.m. weekends 8:30 to 5:30	weekdays ~ 7 to 4:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage	3 days garbage
Tipping floor sq. ft.	61,000	64,000	87,000	53,000
Fully enclosed tipping building	yes	yes	yes	yes
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 self-haul – 17	commercial – 4 self-haul – 21 weekday; 21 weekend	commercial – 3 self-haul – 11 weekday; 17 weekend
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors	1 pre-load compactor space for 2 nd
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons

Alternative B	Shoreline	Bow Lake	Northeast	South County
Chutes	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers
Loading yard waste & clean wood	top loaded into walking floor trailers			
On-site fuel	yes	yes	yes	yes
Capital cost	\$39 million	\$88.5 million	\$106 million (forecast, 2013\$)	\$6 million (sunk) \$74 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: A	commercial: A self-haul: B	commercial: A self-haul: C	commercial: A self-haul: B
Vehicle capacity LOS 2040	commercial: A self-haul: A	commercial: B self-haul: C	commercial: A self-haul: B	commercial: A self-haul: C
Tonnage capacity LOS 2027	A	A	C	A
Tonnage capacity LOS 2040	A	A	B	A

Alternative C	Shoreline	Bow Lake	Northeast
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2020
Corresponding closing facility	none	close Algona 2018 close Renton 2018	close Factoria & Houghton 2021
Garbage service	commercial & self-haul all operating hours	commercial all operating hours self-haul limited hours	commercial & self-haul all operating hours
Recycling service	recycling scenario 3	recycling scenario 3 limited hours	recycling scenario 3
HHW service	none	none	6 days per week
Space for future services	none	space available for future HHW or alternative processing	plan for future alternative processing
Green building	LEED Platinum	LEED Gold	LEED Gold
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	commercial: weekdays 24 hours weekends 8:30 to 5:30 self-haul: weekdays ~ 4 p.m. to 10 p.m. weekends 8:30 to 5:30	weekdays ~ 6:30 a.m. to 11 p.m. weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage
Tipping floor sq. ft.	61,000	64,000	87,000
Fully enclosed tipping building	yes	yes	yes
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 (6 when self-haul not present) self-haul – 17	commercial – 4 self-haul – 21 weekday; 21 weekend

Alternative C	Shoreline	Bow Lake	Northeast
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons
Chutes	2 used for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	2 for yard waste/clean wood and available for garbage as needed
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers
Loading yard waste & clean wood	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers
On-site fuel	yes	yes	yes
Capital cost	\$39 million	\$88.5 million	\$106 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: A	commercial: B self-haul: F	commercial: A self-haul: C
Vehicle capacity LOS 2040	commercial: A self-haul: A	commercial: B self-haul: F	commercial: A self-haul: B
Tonnage capacity LOS 2027	A	B	C
Tonnage capacity LOS 2040	A	B	B

Alternative C**	Shoreline	Bow Lake	Northeast	Algona (self-haul only)
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2020	Renovated station transitions to self-haul only 2018
Corresponding closing facility	none	close Renton 2018	close Factoria & Houghton 2021	none
Garbage service	commercial & self-haul all operating hours	commercial all operating hours self-haul limited hours	commercial & self-haul all operating hours	self-haul only
Recycling service	recycling scenario 3	recycling scenario 3 limited hours	recycling scenario 3	yard waste in one chute, no space for other materials
HHW service	none	none	6 days a week	none
Space for future services	none	space available for future HHW or alternative processing	plan for future alternative processing	none
Green building	LEED Platinum	LEED Gold	LEED Gold	scorecard
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	commercial: weekdays 24 hours weekends 8:30 to 5:30 self-haul: weekdays ~ 4 p.m. to 10 p.m. weekends 8:30 to 5:30	weekdays ~ 6:30 a.m. to 11 p.m. weekends 8:30 to 5:30	weekdays ~ 8 to 5:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage	none
Tipping floor sq. ft.	61,000	64,000	87,000	12,000
Fully enclosed tipping building	yes	yes	yes	no
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 scales – 1 in, 2 out
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 (6 when self-haul not present) self-haul – 17	commercial – 4 self-haul – 21 weekday; 21 weekend	self-haul – 16 total: 8 for garbage and 8 for yard waste

Alternative C**	Shoreline	Bow Lake	Northeast	Algona (self-haul only)
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors	none
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 17 tons yard waste 16 tons
Chutes	2 used for yard waste/clean wood and available for garbage as needed	1 used for yard waste/clean wood and available for garbage as needed	2 used for yard waste/clean wood and available for garbage as needed	2 total – 1 for garbage and 1 for yard waste/clean wood
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	top loaded into walking floor trailers (direct dump)
Loading yard waste & clean wood	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers
On-site fuel	yes	yes	yes	no
Capital cost	\$39 million	\$88.5 million	\$106 million (forecast, 2013\$)	\$8.9 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: A	commercial: B self-haul: C	commercial: A self-haul: C	commercial: NA self-haul: E
Vehicle capacity LOS 2040	commercial: A self-haul: A	commercial: B self-haul: D	commercial: A self-haul: B	commercial: NA self-haul: E
Tonnage capacity LOS 2027	A	B	C	A
Tonnage capacity LOS 2040	A	B	B	A

Alternative D	Shoreline	Bow Lake	Factoria (commercial building & self-haul building)
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2020 self-haul bldg. 2021 commercial bldg.
Corresponding closing facility	none	close Algona & Renton 2018	close Houghton 2021
Garbage service	commercial & self-haul all operating hours	commercial all operating hours self-haul limited hours	commercial & self-haul all operating hours
Recycling service	recycling scenario 3	recycling scenario 3 limited hours	recycling scenario 3
HHW service	none	none	6 days a week
Space for future services	none	space available for future HHW or alternative processing	plan for future alternative processing
Green building	LEED Platinum	LEED Gold	LEED Gold
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	commercial: weekdays 24 hours weekends 8:30 to 5:30 self-haul: weekdays~ 4 p.m. to 10 p.m. weekends 8:30 to 5:30	commercial: weekdays ~ 6:30 a.m. to 11 p.m. closed weekends self-haul: weekdays ~ 8 to 5:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage
Tipping floor sq. ft.	61,000	64,000	commercial – 33,000 self-haul – 24,000
Fully enclosed tipping building	yes	yes	yes
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	commercial: scalehouse – 1 scales – 1 in, 1 out self-haul: scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out

Alternative D	Shoreline	Bow Lake	Factoria (commercial building & self-haul building)
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 (6 when self-haul not present) self-haul – 17	commercial – 4 self-haul – 24 weekday; 24 weekend
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors in commercial building; 2 nd can process fewer tph No compactor in self-haul building, but space available
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	commercial garbage 25 tons self-haul garbage 18 tons yard waste 16 tons
Chutes	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	commercial: 1 available for garbage or yard waste as needed self-haul: 4 for garbage & yard waste/clean wood
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	commercial – unloaded on floor, pushed into compactor, compacted into fully enclosed containers self-haul – unloaded on floor, pushed into top loaded walking floor trailers
Loading yard waste & clean wood	top loaded into walking floor trailers	top loaded into walking floor trailers	unloaded on floor, top loaded into walking floor trailers
On-site fuel	yes	yes	yes (commercial building)
Capital cost	\$39 million	\$88.5 million	\$112 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: B	commercial: B self-haul: F	commercial: B self-haul: C
Vehicle capacity LOS 2040	commercial: A self-haul: B	commercial: B self-haul: F	commercial: B self-haul: B
Tonnage capacity LOS 2027	A	B	commercial: B self-haul: A
Tonnage capacity LOS 2040	A	B	commercial: A self-haul: A

Alternative D**	Shoreline	Bow Lake	Factoria (commercial building & self-haul building)	Algona (self-haul only)
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2020 self-haul bldg. 2021 commercial bldg.	renovated station transitions to self-haul only 2018
Corresponding closing facility	none	close Renton 2018	close Houghton 2021	none
Garbage service	commercial & self-haul all operating hours	commercial all operating hours self-haul limited hours	commercial & self-haul all operating hours	self-haul only
Recycling service	recycling scenario 3	recycling scenario 3 limited hours	recycling scenario 3	yard waste in one chute, no space for other materials
HHW service	none	none	6 days a week	none
Space for future services	none	space available for future HHW or alternative processing	plan for future alternative processing	none
Green building	LEED Platinum	LEED Gold	LEED Gold	scorecard
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	commercial: weekdays 24 hours weekends 8:30 to 5:30 self-haul: weekdays~ 4 p.m. to 10 p.m. weekends 8:30 to 5:30	commercial: weekdays ~ 6:30 a.m. to 11 p.m. closed weekends self-haul: weekdays ~ 8 to 5:30 weekends 8:30 to 5:30	weekdays ~ 8 to 5:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage	none
Tipping floor sq. ft.	61,200	64,000	commercial – 33,000 self-haul – 23,580	12,300
Fully enclosed tipping building	yes	yes	yes	no
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	commercial: scalehouse – 1 scales – 1 in, 1 out self-haul: scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 scales – 1 in, 2 out
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 (6 when self-haul not present) self-haul – 17	commercial – 4 self-haul – 24 weekday; 24 weekend	self-haul – 16 total: 8 for garbage and 8 for yard waste



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Alternative D**	Shoreline	Bow Lake	Factoria (commercial building & self-haul building)	Algona (self-haul only)
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors in commercial building; 2 nd can process fewer tph No compactor in self-haul building, but space available	none
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	commercial garbage 25 tons self-haul garbage 18 tons yard waste 16 tons	garbage 17 tons yard waste 16 tons
Chutes	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	commercial: 1 available for garbage or yard waste as needed self-haul: 3 for garbage & yard waste/clean wood	2 total – 1 for garbage and 1 for yard waste/clean wood
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	commercial – unloaded on floor, pushed into compactor, compacted into fully enclosed containers self-haul – unloaded on floor, pushed into top loaded walking floor trailers	top loaded into walking floor trailers (direct dump)
Loading yard waste & clean wood	top loaded into walking floor trailers	top loaded into walking floor trailers	unloaded on floor, top loaded into walking floor trailers	top loaded into walking floor trailers
On-site fuel	yes	yes	yes (commercial building)	no
Capital cost	\$39 million	\$88.5 million	\$112 million (forecast, 2013\$)	\$8.9 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: B	commercial: B self-haul: C	commercial: B self-haul: C	commercial: NA self-haul: E
Vehicle capacity LOS 2040	commercial: A self-haul: B	commercial: B self-haul: D	commercial: B self-haul: B	commercial: NA self-haul: E
Tonnage capacity LOS 2027	A	B	commercial: B self-haul: A	A
Tonnage capacity LOS 2040	A	B	commercial: A self-haul: A	A

Alternative D***	Shoreline	Bow Lake	Factoria	Houghton (self-haul only)	Algona (self-haul only)
Facility opening	Feb. 2008	July 2012 phase 1 (garbage) October 2013 phase 2 (recycle)	2016 phase 1 (garbage) 2017 phase 2 (recycle & HHW)	Renovated station transitions to self-haul only 2017	Renovated station transitions to self-haul only 2018
Corresponding closing facility	none	close Renton 2018	none	none	none
Garbage service	commercial & self-haul all operating hours	commercial all operating hours self-haul limited hours	commercial only weekdays self-haul weekends	self-haul only	self-haul only
Recycling service	recycling scenario 3	recycling scenario 3 limited hours	recycling scenario 3 limited hours	yard waste in one chute limited other, e.g., curbside mix OR scrap metal & appliances	yard waste in one chute, no space for other materials
HHW service	none	none	6 days a week	none	none
Space for future services	none	space available for future HHW or alternative processing	none as currently planned, could retain upper property for future services	none	none
Green building	LEED Platinum	LEED Gold	LEED Gold	scorecard	scorecard
Hours of operation	weekdays 7:30 to 5 weekends 8:30 to 5:30	commercial: weekdays 24 hours weekends 8:30 to 5:30 self-haul: weekdays~ 4 p.m. to 10 p.m. weekends 8:30 to 5:30	commercial only weekdays ~ 6:30 a.m. to 11 p.m. self-haul weekends 8:30 to 5:30	weekdays ~ 8 to 5:30 weekends 8:30 to 5:30	weekdays ~ 8 to 5:30 weekends 8:30 to 5:30
Emergency storage	3 days garbage	3 days garbage	3 days garbage	none	none
Tipping floor sq. ft.	61,000	64,000	53,000	12,000	12,000
Fully enclosed tipping building	yes	yes	yes	no	no
Scale complex	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 space for 2 nd scales – 2 in, 2 out	scalehouse – 1 scales – 1 in, 1 out space for 2 nd in, 2 nd out	scalehouse – 1 scales – 1 in, 1 out	scalehouse – 1 scales – 1 in, 2 out



The contents of this document explore alternatives without regard to policy. Additional environmental and financial reviews may be necessary to fully understand the implications of any given alternative. Policy decisions are left to a higher authority level for application at an appropriate time. Statistics, charts, and numbers are for research and comparison purposes only and should not be applied out of context.

Alternative D***	Shoreline	Bow Lake	Factoria	Houghton (self-haul only)	Algona (self-haul only)
Unloading stalls	commercial – 2 self-haul – 12	commercial – 3 (6 when self-haul not present) self-haul – 17	commercial – 6 weekdays self-haul – 14 weekend	self-haul – 16 total, 8 for garbage and 8 for yard waste	self-haul – 16 total: 8 for garbage and 8 for yard waste
Compaction	1 pre-load compactor space for 2 nd	2 pre-load compactors	2 pre-load compactors; 2 nd can process fewer tph	none	none
Payloads	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 25 tons yard waste 16 tons	garbage 17 tons yard waste 16 tons	garbage 17 tons yard waste 16 tons
Chutes	2 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	1 for yard waste/clean wood and available for garbage as needed	2 total – 1 for garbage and 1 for yard waste/clean wood	2 total – 1 for garbage and 1 for yard waste/clean wood
Loading garbage	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	unloaded on floor, pushed into compactor, compacted into fully enclosed containers	top loaded into walking floor trailers (direct dump)	top loaded into walking floor trailers (direct dump)
Loading yard waste & clean wood	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers	top loaded into walking floor trailers
On-site fuel	yes	yes	yes	no	no
Capital cost	\$39 million	\$88.5 million	\$22 million (sunk) \$60 million (forecast, 2013\$)	\$1.7 million (forecast, 2013\$)	\$8.9 million (forecast, 2013\$)
Vehicle capacity LOS 2027	commercial: A self-haul: B	commercial: B self-haul: C	commercial: A self-haul: E	commercial: NA self-haul: F	commercial: NA self-haul: E
Vehicle capacity LOS 2040	commercial: A self-haul: B	commercial: B self-haul: D	commercial: A self-haul: E	commercial: NA self-haul: F	commercial: NA self-haul: E
Tonnage capacity LOS 2027	A	B	B	A	A
Tonnage capacity LOS 2040	A	B	A	A	A

Level-of-Service – Capacity

Capacity is the measure of a station's ability to accommodate the flow of both commercial and self-haul vehicles and tonnage. There is very little existing literature on how to quantify the capacity of a solid waste facility. The standard used in the 2006 Transfer System Plan was developed using transportation industry standards of measurement for capacity of roadways and intersections – called a level of service or LOS measurement. An LOS measurement is a qualitative measure based on quantitative data. For the 2006 Plan consultants were retained to refine methodology and to apply them to the transfer stations; for this analysis the division applied the methodology.

The methodology for rating actual vehicle and tonnage capacity was developed by determining each station's maximum sustainable operating capacity. Optimal operating capacity is defined as the maximum optimal number of vehicles or tonnage that can be processed through the station each hour based on the station design and customer mix.

The standard chosen for vehicle capacity is an LOS score of C (on a scale of A to F), which is defined as a steady flow of vehicles except during occasional peak periods. The LOS measurements are defined as follows:

- LOS A – Can easily accommodate vehicles/tonnage at all times of the day (optimal operating capacity exceeded <0.5% of operating hours).
- LOS B – Able to accommodate vehicles/tonnage at most times of the day (optimal operating capacity exceeded between 0.5% - 5% of operating hours).
- LOS C – Able to accommodate vehicles/tonnage all times of the day, except for occasional peak hour times (optimal operating capacity exceeded 5% - 10% of operating hours).
- LOS D – Beginning to have difficulty accommodating all vehicles/tonnage during peak hours (optimal operating capacity exceeded 10%-20% of operating hours).
- LOS E – Cannot accommodate vehicles/tonnage without off-site impacts or overloading on-site resources (optimal operating capacity exceeded 20 - 50% of operating hours).
- LOS F – Cannot accommodate vehicles/tonnage throughput without off-site impacts and overloading of on-site resources. Capacity exceeded most hours (optimal operating capacity exceeded >50% of operating hours).

Transfer Plan Level-of-Service Criteria Applied to Alternatives¹

		Base	A	A*	B	C	C**	D	D**	D***
1. Estimated time to a transfer facility within the service area for 90% of users	< 30 min = YES	YES	YES	YES	YES	NO ²	YES	NO ³	YES	YES
2. Time on site meets standard for 90% of trips⁴										
a. commercial vehicles	< 16 min = YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
b. business self-haulers	< 30 min = YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
c. residential self-haulers	< 30 min = YES	YES	YES	NO	YES	NO	NO	NO	NO	NO
3. Facility hours meet user demand⁵	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
4. Recycling services meet Plan policies										
a. business self-haulers	YES/NO	YES	YES	NO	YES	NO	NO	NO	NO	NO
b. residential self-haulers	YES/NO	YES	YES	NO	YES	NO	NO	NO	NO	NO
5. Vehicle capacity⁶										
a. meets 2027 forecast needs	YES/NO	YES	YES	NO	YES	NO	NO	NO	NO	NO
b. meets 2040 forecast needs	YES/NO	YES	YES	NO	YES	NO	NO	NO	NO	NO
6. Average daily handling capacity (tons)										
a. meets 2027 forecast needs	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
b. meets 2040 forecast needs	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
7. Space for 3 days' storage										
a. at time of construction	YES/NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
b. meets 2040 forecast needs	YES/NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
8. Space to expand on-site⁷	YES/NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
9. Minimum roof clearance of 25 ft.	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
10. Meets facility safety goals	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
11. Ability to compact waste	YES/NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
12. Safety										
a. Meets goals for structural integrity	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
b. Meets FEMA immediate occupancy standards	YES/NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
13. Meets applicable local noise ordinance levels	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
14. Meets PSCAA standards for odors	YES/NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
15. Meets goals for traffic on local streets⁸										
a. Meets LOS standard	YES/NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
b. Traffic does not extend onto local streets 95% of the time	YES/NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
16. 100 foot buffer between active area and nearest residence	YES/NO	YES	YES	NO	YES	YES	YES	YES	YES	NO
17. Transfer station is compatible with surrounding land use	YES/NO	YES	NO	NO	YES	YES	YES	NO	NO	NO

¹ Criteria applied to the overall Alternative – individual transfer station scores may vary

² See drive time map 8

³ See drive time map 13

⁴ Based on vehicle capacity LOS rating

⁵ Hours may be adjusted at some facilities to meet user demand

⁶ "NO" if one or more facilities in the alternative did not have an LOS score of at least a C – see vehicle capacity detail for information about each facility

⁷ This criterion has been adapted to indicate future flexibility to expand service, e.g., HHW, or to support waste conversion technology

⁸ Based on vehicle capacity LOS rating

Total Capital Cost Estimates (does not include sunk costs)**Total cost 2013\$**

	Base	A	A*	B	C	C**	D	D**	D***
Factoria	\$ 58,174,385	\$ 112,000,000	\$ 60,465,593	\$ 8,287,050	\$ 8,287,050	\$ 8,287,050	\$ 112,000,000	\$ 112,000,000	\$ 60,465,593
South County	\$ 74,074,226	\$ 74,074,226	\$ 74,074,226	\$ 74,074,226					
Northeast	\$ 89,426,100			\$ 105,041,988	\$ 105,041,988	\$ 105,041,988			
Houghton			\$ 1,730,800						\$ 1,730,800
Algona						\$ 8,878,300		\$ 8,878,300	\$ 8,878,300
Total	\$ 221,674,711	\$ 186,074,226	\$ 136,270,619	\$ 187,403,264	\$ 113,329,038	\$ 122,207,338	\$ 112,000,000	\$ 120,878,300	\$ 71,074,693

Total cost inflated (projections from the [Office of Economic and Financial Analysis](#))

	Base	A	A*	B	C	C**	D	D**	D***
Factoria	\$ 61,466,902	\$ 125,521,998	\$ 63,857,677	\$ 8,918,177	\$ 8,918,177	\$ 8,918,177	\$ 125,521,998	\$ 125,521,998	\$ 63,857,677
South County	\$ 82,304,405	\$ 82,304,405	\$ 82,304,405	\$ 82,304,405					
Northeast	\$ 100,118,132			\$ 118,043,912	\$ 118,043,912	\$ 118,043,912			
Houghton			\$ 1,863,787						\$ 1,863,787
Algona						\$ 9,664,777		\$ 9,664,777	\$ 9,664,777
Total	\$ 243,889,438	\$ 207,826,403	\$ 148,025,869	\$ 209,266,494	\$ 126,962,089	\$ 136,626,866	\$ 125,521,998	\$ 135,186,775	\$ 75,386,241

Total cost with interest (assumes 20-year bonds at 5%)

	Base	A	A*	B	C	C**	D	D**	D***
Factoria	\$ 98,645,264	\$ 201,444,197	\$ 102,482,104	\$ 14,312,352	\$ 14,312,352	\$ 14,312,352	\$ 201,444,197	\$ 201,444,197	\$ 102,482,104
South County	\$ 127,033,876	\$ 127,033,876	\$ 127,033,876	\$ 127,033,876					
Northeast	\$ 160,295,081			\$ 186,849,246	\$ 186,849,246	\$ 186,849,246			
Houghton			\$ 2,991,102						\$ 2,991,102
Algona						\$ 15,510,535		\$ 15,510,535	\$ 15,510,535
Total	\$ 385,974,221	\$ 328,478,073	\$ 232,507,082	\$ 328,195,474	\$ 201,161,598	\$ 216,672,133	\$ 201,444,197	\$ 216,954,732	\$ 120,983,741

Cash Flow Estimates

Base Alternative	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Factoria RTS (as designed/permitted)	4,264,015	10,523,931	16,499,188	21,858,667	7,364,042	1,928,557	0	0	0	62,438,400	17,881,038	80,319,438
Northeast RTS	70,200	244,000	1,719,000	25,164,460	3,361,353	10,574,299	26,654,636	21,545,419	162,933	89,496,300	452,020	89,948,320
South County RTS	5,161,581	478,548	9,990,622	3,478,854	4,962,080	27,214,061	27,214,061	736,000	0	79,235,807	878,936	80,114,743
Total	9,495,796	11,246,479	28,208,810	50,501,981	15,687,475	39,716,917	53,868,697	22,281,419	162,933	231,170,507	19,211,994	250,382,501

Alternative A	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Factoria RTS (expanded)	0	0	8,400,000	11,200,000	19,432,000	22,176,000	22,176,000	22,176,000	6,440,000	112,000,000	0	112,000,000
South County RTS	5,161,581	478,548	9,990,622	3,478,854	4,962,080	27,214,061	27,214,061	736,000	0	79,235,807	878,936	80,114,743
Total	5,161,581	478,548	18,390,622	14,678,854	24,394,080	49,390,061	49,390,061	22,912,000	6,440,000	191,235,807	878,936	192,114,743

Alternative A*	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Factoria RTS (as designed/permitted)	4,264,015	10,523,931	18,790,396	21,858,667	7,364,042	1,928,557	0	0	0	64,729,608	17,881,038	82,610,646
Houghton TS (self-haul only)	0	0	71,000	873,975	785,825	0	0	0	0	1,730,800	0	1,730,800
South County RTS	5,161,581	478,548	9,990,622	3,478,854	4,962,080	27,214,061	27,214,061	736,000	0	79,235,807	878,936	80,114,743
Total	9,425,596	11,002,479	28,852,018	26,211,496	13,111,947	29,142,618	27,214,061	736,000	0	145,696,215	18,759,974	164,456,189

Alternative B	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Factoria TS (existing)	0	0	700,250	3,698,350	3,888,450	0	0	0	0	8,287,050	0	8,287,050
Northeast RTS (mega)	70,200	244,000	1,719,000	25,164,460	3,361,353	12,689,276	34,010,273	27,690,693	162,933	105,112,188	452,020	105,564,208
South County RTS	5,161,581	478,548	9,990,622	3,478,854	4,962,080	27,214,061	27,214,061	736,000	0	79,235,807	878,936	80,114,743
Total	5,231,781	722,548	12,409,872	32,341,664	12,211,883	39,903,337	61,224,334	28,426,693	162,933	192,635,045	1,330,956	193,966,001

Alternative C	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Factoria TS (existing)	0	0	700,250	3,698,350	3,888,450	0	0	0	0	8,287,050	0	8,287,050
Northeast RTS (mega)	70,200	244,000	1,719,000	25,164,460	3,361,353	12,689,276	34,010,273	27,690,693	162,933	105,112,188	452,020	105,564,208
Total	70,200	244,000	2,419,250	28,862,810	7,249,803	12,689,276	34,010,273	27,690,693	162,933	113,399,238	452,020	113,851,258

Alternative C**	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Factoria TS (existing)	0	0	700,250	3,698,350	3,888,450	0	0	0	0	8,287,050	0	8,287,050
Algona TS (self-haul only)	0	0	221,225	1,952,825	5,156,600	1,547,650	0	0	0	8,878,300	0	8,878,300
Northeast RTS (mega)	70,200	244,000	1,719,000	25,164,460	3,361,353	12,689,276	34,010,273	27,690,693	162,933	105,112,188	452,020	105,564,208
Total	70,200	244,000	2,640,475	30,815,635	12,406,403	14,236,926	34,010,273	27,690,693	162,933	122,277,538	452,020	122,729,558

Alternative D	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Factoria RTS (expanded)	0	0	8,400,000	11,200,000	19,432,000	22,176,000	22,176,000	22,176,000	6,440,000	112,000,000	0	112,000,000
Total	0	0	8,400,000	11,200,000	19,432,000	22,176,000	22,176,000	22,176,000	6,440,000	112,000,000	0	112,000,000

Alternative D**	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Algona TS (self-haul only)	0	0	221,225	1,952,825	5,156,600	1,547,650	0	0	0	8,878,300	0	8,878,300
Factoria RTS (expanded)	0	0	8,400,000	11,200,000	19,432,000	22,176,000	22,176,000	22,176,000	6,440,000	112,000,000	0	112,000,000
Total	0	0	8,621,225	13,152,825	24,588,600	23,723,650	22,176,000	22,176,000	6,440,000	120,878,300	0	120,878,300

Alternative D***	2013	2014	2015	2016	2017	2018	2019	2020	2021	All Years Forecast	Actuals through Dec 2012	Total
Algona TS (self-haul only)	0	0	221,225	1,952,825	5,156,600	1,547,650	0	0	0	8,878,300	0	8,878,300
Factoria RTS (as designed/permitted)	4,264,015	10,523,931	18,790,396	21,858,667	7,364,042	1,928,557	0	0	0	64,729,608	17,881,038	82,610,646
Houghton TS (self-haul only)	0	0	71,000	873,975	785,825	0	0	0	0	1,730,800	0	1,730,800
Total	4,264,015	10,523,931	19,082,621	24,685,467	13,306,467	3,476,207	0	0	0	75,338,708	17,881,038	93,219,746

All three commercial hauling companies serving the areas that will be affected by the Transfer Plan provided preliminary estimates of impacts to their costs, which would be passed on to residential and business customers receiving collection services. Although each of the haulers presented their cost estimates in a different format, all made note that these estimates are rough. As one hauler noted, “A more thorough assessment would necessitate studies on estimated traffic patterns and facility wait times, as well as the identification of specific locations for the proposed South County and Northeast County transfer stations. Consideration of these variables may significantly affect the cost estimates”.

Collection Cost Estimates Summary

	CleanScapes	Republic	Waste Management
Base		Minimal impact in drive time or costs. Less than a 1% increase in operational or customer costs.	Expenses (Driver Hours & Trips) \$1 - 2 million/yr Capital Cost \$3 - 6 million
A		Minimal impact in drive time or costs. Less than a 1% increase in operational or customer costs.	Expenses (Driver Hours & Trips) \$1.5 – 2.5 million/yr Capital Cost \$6 - 9 million
A*		Minimal impact in drive time or costs. Less than a 1% increase in operational or customer costs.	Expenses (Driver Hours & Trips) \$1.5 – 2.5 million/yr Capital Cost \$6 - 9 million
B	30 hours/week (truck and labor) or \$3,000/week	Drive time increased by 300 hours per month. Increase in customers rates 4-5%.	Expenses (Driver Hours & Trips) \$2.5 – 3.5 million/yr Capital Cost \$6 - 9 million
C	30 hours/week (truck and labor) or \$3,000/week	Drive time increased by 350 hours per month. Increase in customers rates 4-5%.	Expenses (Driver Hours & Trips) \$3 – 4.5 million/yr Capital Cost \$9 - 15 million
C**	30 hours/week (truck and labor) or \$3,000/week	Drive time increased by 350 hours per month. Increase in customers rates 4-5%.	Expenses (Driver Hours & Trips) \$3 – 4.5 million/yr Capital Cost \$9 - 15 million
D		Drive time increased by 100 hours per month. Increase in customer rates possible 2-3%.	Expenses (Driver Hours & Trips) \$2 – 3.5 million/yr Capital Cost \$9 - 15 million
D**		Drive time increased by 100 hours per month. Increase in customer rates possible 2-3%.	Expenses (Driver Hours & Trips) \$2 – 3.5 million/yr Capital Cost \$9 - 15 million
D***		Drive time increased by 100 hours per month. Increase in customer rates possible 2-3%.	Expenses (Driver Hours & Trips) \$2 – 3.5 million/yr Capital Cost \$9 - 15 million



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Collection Company Customer Counts – July 2013

Collection Companies & Jurisdictions Served	Single Family	Multi Family	Non Residential	Total
Republic Services - Kent Division	61,399	407	2,852	64,658
Auburn (West Hill, Lea Hill & Vorozkho annexations)	3,425	9	34	3,468
Black Diamond	1,148	4	43	1,195
Covington	4,636	3	138	4,777
Kent	23,196	342	2,075	25,613
Maple Valley (Maple Ridge Highlands annexation)	479	-		479
Normandy Park	1,962	12	38	2,012
Renton (annexed areas)	4,180	-	7	4,187
Unincorporated	22,373	37	517	22,927
Republic Services - Bellevue Division	61,833	683	2,340	64,856
Beaux Arts	107	-	2	109
Bellevue	29,213	478	1,611	31,302
Clyde Hill	999	-	9	1,008
Hunts Point	151	-	4	155
Kenmore	5,512	75	160	5,747
Issaquah (South Cove annexation)	931	5	2	938
Lake Forest Park	3,920	25	58	4,003
Medina	1,017	-	17	1,034
Mercer Island	6,510	47	131	6,688
North Bend	1,503	31	200	1,734
Sammamish (southern)	8,419	10	97	8,526
Yarrow Point	370	-	2	372
Unincorporated	3,181	12	47	3,240
Waste Management - Seattle Division	31,831	760	2,411	35,002
Newcastle	2,909	8	38	2,955
Renton	16,898	463	1,140	18,501
Tukwila	2,618	120	774	3,512
Unincorporated	9,406	169	459	10,034
Waste Management - South Sound Division	43,923	742	2,674	47,339
Algona	762	4	40	806
Auburn	12,423	531	1,400	14,354
Federal Way	17,171	142	768	18,081
Maple Valley	6,569	4	155	6,728
Pacific	1,347	54	64	1,465
Unincorporated	5,651	7	247	5,905
Waste Management - North Sound Division	73,635	845	3,057	77,537
Bothell	8,333	99	429	8,861
Duvall	2,188	11	82	2,281
Kirkland	21,188	547	916	22,651
Redmond	11,508	110	851	12,469
Sammamish (northern)	5,291	-	25	5,316
Snoqualmie	3,607	8	114	3,729
Woodinville	2,794	22	372	3,188
Unincorporated	18,726	48	268	19,042
CleanScapes*	41,314	813	2,270	44,397
Burien*	9,500	230	636	10,366
Carnation	511	1	58	570
Des Moines	5,992	183	274	6,449
Issaquah	6,932	92	444	7,468
SeaTac*	3,945	121	349	4,415
Shoreline	14,434	186	509	15,129
City of Enumclaw	3,078	n/a	n/a	3,078
TOTAL	313,935	4,250	15,604	333,789

*Includes City of SeaTac, currently served by Republic Service - Kent Division, and City of Burien, currently served by Waste Management - Seattle Division. Collection contract with CleanScapes begins on July 1, 2014.

Collection Company Service Areas – July 2014

