



WASTEWATER REPORT – LOT 1 STERLING RECYCLING FACILITY SITE DEVELOPMENT PLAN



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1.0 INTRODUCTION

This wastewater report is for the Lot 1 Sterling Recycling Facility Site Development Plan. The service entity for the proposed development is the Falcon Area Water and Wastewater Authority. The service areas and location of tie-in point are shown in Appendix A.

1.1 DEVELOPMENT DESCRIPTION

This report is for the Sterling Recycling Facility Site Development Plan and includes 2 commercial/industrial lots. The Sterling Recycling Facility Site Development Plan consists of approximately 32.62 acres located in Section 5, Township 12 South, Range 65 West of the 6th P.M. Lot 1 is approximately 4.74 acres, and its anticipated use is for a self-storage facility. Lot 2 is approximately 24.06 acres and is to be used as a concrete asphalt recycling facility, with no buildings/structures and, therefore, no wastewater demand. This report only addresses wastewater service for Lot 1.

2.0 WASTEWATER REPORT

2.1 PROJECTED WASTEWATER LOADS

Wastewater unit user loading projections are based on similar District historical use developed in the Falcon area. Average daily- maximum monthly wastewater loads are expected to be roughly 172 gallons per day per single family residence. A single SFE is expected for the proposed storage units.

Table 1. Calculation of Wastewater Loads

Use	Units	Single Family Equivalent	Average Daily Max-Month Flows	Estimated Population
	#	#	GPD	#
Residential Units				
Single Family	1	172	172	2.6
Total			172	

2.2 ADEQUACY OF WASTEWATER TREATMENT CAPACITY

The Falcon Area Water and Wastewater Authority has a perpetual contract with the Meridian Service Metropolitan District (MSMD) for the provision of wastewater treatment. The contract allows for the purchase of up to 5849 SFEs of wastewater capacity from MSMD which is equivalent to 1.006 Million Gallons/Day (MGD). Wastewater projections are based on similar District historical use developed in

the Falcon area. Average daily-maximum monthly wastewater loads of 172 gallons per day per single family residence are iterated in the Wastewater Contract.

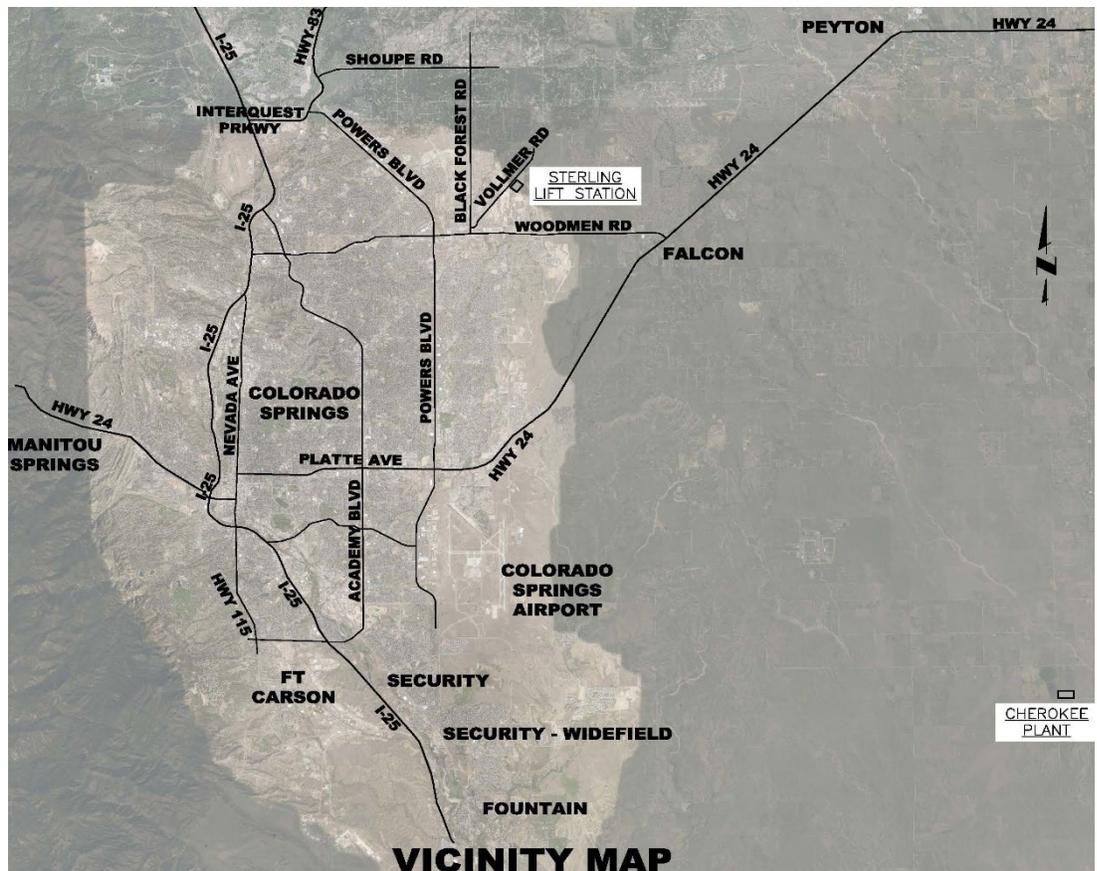
The loading projected from Lot 1 Sterling Recycling Facility Site Development Plan represents roughly 0.017 % of the contractual capacity available to the Falcon Area Water and Wastewater Authority. FAWWA therefore has more than adequate wastewater treatment capacity to provide service to serve the Subdivision.

Including all subdivisions submitted before September 15 of 2023, the current committed capacity is for 2814 SFE which is 48.11 % of FAWWA contractual treatment capacity.

2.3 WASTEWATER TREATMENT PLANT

MSMD owns 2.2 million gallons per day of wastewater capacity in the Cherokee Wastewater Treatment Facility. The plant operator, Cherokee Metropolitan District (CMD) has already approved the systems associated with transport and treatment. MSMD and CMD are in compliance with their current COC issued by the Colorado Department of Public Health and Environment. The location of the 4.6 MGD Cherokee Wastewater Treatment Plant is shown below:

Figure 1. Location of Cherokee Wastewater Treatment Plant





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2.4 COLLECTION, PUMPING, AND PIPING

All lands to be developed within Lot 1 Sterling Recycling Facility Site Development Plan will gravity feed to the southern portion of the Sterling site. This will be the main collection point for most of the entire future development as well. FAWWA has completed construction of the Lift Station and Force Main to serve the area. The force main is constructed across the lower portion of The Ranch. From this point wastewater is intercepted by Meridian Service Metropolitan District and delivered to Cherokee through the Meridian system.