COLORADO DEPARTMENT OF HEAL Water Quality Control Division 4210 East 11th Avenue Denver, Colorado 80220

APPLICATION FOR APPROVAL OF SEWAGE COLLECTION FACILITIES

(Submit two															
specificati	ons unle	ss	state	grant	is	involv	ved;	ther	ı submi	t two	copies	of	every	ything	.)

App	lica	nt: City of Grand Junction							
bba	ress	250 North 5th Street, Grand Junction, Colorado							
(Th	e fo	llowing must be completed by the applicant or his designated representative.)							
A.	GEN	ERAL INFORMATION:							
	1.	Name of wastewater treatment facility to handle waste.							
		Wastewater Treatment Plant, City of Grand Junction							
		Nature of proposed facility: collection lines and pump station							
	2.	Design capacity of wastewater treatment plant:							
		Hydraulic (MGD) 5.8 Organic (BOD ₅) 12100							
	3.	Present load to plant:							
		Hydraulic (MGD) 4.70 Organic (BOD ₅) 9111							
	4.	Proposed lift station, sewer or interceptor, when fully developed, will increase plant load to:							
		Hydraulic (MGD) 11,550 Organic (BOD ₅) 7.0							
	٠	This will bring the loading of the plant to 81 percentage of hydraulic and 75 percentage of organic capacity.							
	5.	If an existing treatment plant has unused capacity, how much of this unused capacity has been obligated to other proposed developments?							
В.	LIF	T STATION:							
	1.	Is site subject to flooding? No . On a separate sheet of paper describe protective measures to be taken.							
	2.	Distance to nearest residences? 200 ft.							
	3.	What steps are being taken to minimize or prevent overflows?							
		Storage for historic electricity outage period.							
		Where will overflow discharge to? 24" Grand Junction sewer							
		· · · · · · · · · · · · · · · · · · ·							

	Is standby power provi	ded? no.								
SEW	ER OR INTERCEPTORS:									
	Maximum									
1.	Size 8" (Pipe diameter)	Iength 2830 (in feet)	Capacity .75 cfs							
2.	_	include the hydraulic	ram showing sewage collection c capacities and ownership of See attached							
3.			ng sewers or interceptors are lowing at a depth of 11" (in inches)							
4.	sewage treatment works no. If so, i	to within 95 percent dentify what part of	sewer or interceptor bring the of peak hydraulic capacity? the sewage treatment works.							
5.	the State? No See Section 25-8-103(I ment works." Distance to the neares		he definition of "sewage treat-							
6.	Will the sewer replace any existing septic tank and leach field systems?									
	yes . If so, please identify them. El Poso area									
	33 living units with	no sewer system.								
CON	SULTING ENGINEER: City	Engineer-Utilities, C	ity of Grand Junction							
Con	nsulting engineer's mail		hone: 250 N. 5th Street							
ADE	DITIONAL INFORMATION MAY	BE REQUIRED BY THE D	ISTRICT ENGINEER.							
No	ovember 16, 1976	illin	En anni							
		Sign	ature of Applicant Bugles presa County H							

EL POSO SEWER SYSTEM ENGINEER'S REPORT

The purpose of this project is to provide sewerage collection service to the El Poso area within the city limits of Grand Junction. The project will consist of sewage collection lines and a pump station which will transport the sewage to the City of Grand Junction wastewater treatment plant for treatment and disposal. The El Poso area consists of 33 existing units which are serviced in septic tank or cesspool systems. Because of soils with high percolation rates and high ground water, sewage treatment is needed for this area.

Houses served - 33.

Sewage produced: Average day based on 3.5 people per house and 100 gallons per day per person - 11,550

Peak flow rates - 400 gallons per person and 3.5 persons per household - 32 gallons per minute.

Design period - 20 years.

Population density - 1.5 houses per acre

Infiltration rate of the system is 200 gallons/inch/mile/day.

No industrial contributors are located within the area.

The pipe size of the system is eight inches which will cause a velocity of not less than 2. feet per second at minimum design grade of .004.

The maximum capacity of the system is 32 gallons per minute with the pump station being the limiting factor.

The area included in El Poso Subdivision is the only unserved area which is tributory to the proposed pump station.

The pump station will consist of storage sump for storage during electricity outage and flow equalization and a 32 g.p.m. pneumatic ejector pump station.