i Toris programmente de l'estable. Constructe program d'eller d'eller de l'estable. Veller George d'eller duction, d'estable, d'el de l'està-

# APPLICATION FOR SITE APPROVAL OF SEWAGE COLLECTION FACILITIES (Fedulace if Serving Hore Than Twenty Persons)

(Submit two copies of Application with one set of design calculations, plans, and specifications unless state grant is involved; then submit two copies of everything.)

102	licar	t: City of Grand Junction and Mesa County
يريم	1285:	City Hall, Grand Junction, Colorado 81501
(Th	e fol	lowing must be completed by the applicant or his designated representative.)
А.	LIFT	STATION:
	1.	Is site located in 1% (100 yr.) floodplain? N/A . On a separate sheet of paper describe protective measures to be taken.
	2.	Distance to nearest residences?
	3.	What steps are being taken to minimize or prevent overflows?
		Where will overflow discharge to?
-	4.	Is there a warning system in case of equipment failure?
		Is standby power provided?
B.	SE	TRS OR INTERCEPTORS: See Attachment A  Maximum
	ı.	Size Length Capacity (Pipe Clauster) (in feet)
	2.	Schematic diagram. Attach a schematic diagram showing sawage collection finallity. This should include the hydraulic capacities and ownership of all contraction sawans and treatment plants within five miles.
	3.	At the present time, the subsequent receiving sewers or interceptors are carrying a peak flow of $\frac{N/A}{\text{(flow in crs)}}$ and flowing at a depth of $\frac{N/A}{\text{(in inches)}}$
	4.	Will the additional load from this proposed sever or interceptor bring the sewage treatment works to within 95 percent of peak hydraulic capacity?  N/A  If so, identify what part of the sewage treatment works.
		Will the additional load cause raw sewage to be discharged to the waters of the State? Some highly diluted storm water flows on peak days.
	5.	Distance to the nearest water line:

WQCC approved 1/77 WQ-3-A(rev. 3-77-40)

6.	Will the sewer replace by existing septic tank and le field systems? Yes						
	If so, please identify then. Homes located along F Road or Patterson Avenue,						
	24½ Road, and River Road.						
<u>GE</u>	ERAL DIFORMATION:						
1.	Proposed lift station, sewer or interceptor, when fully developed, will generate the following additional load:						
	Hydraulic (MED) 12.5 Organic (BCD <sub>5</sub> ) 254 mg/l						
CON	SULTING EIGHTER: Henningson, Durham & Richardson, Inc.						
Cor	sulting engineer's mailing address and telephone: 310 Capitol Life Center						
	Denver, Colorado 80203 (303) 861-1300						
	on E to be completed by facility providing treatment.)						
TRE	ARMENT TO BE PROVIDED:						
1.	Name of wastewater treatment facility to handle waste.						
Persigo Wash Water Pollution Control Plant							
	Type of wastewater treatment facility: Activated Sludge						
2.	Design capacity of wastewater treatment plant:						
	Hydraulic (MGD) 12.5 Organic (BOD <sub>5</sub> ) 254 mg/1						
3.	Present load to plant:						
	Hydraulic (MGD) N/A Organic (BOD <sub>5</sub> ) N/A						
4.	Proposed lift station, sewer or interceptor, when fully developed, will increase plant load to:						
	Hydraulic (MGD) N/A Organic (BOD <sub>5</sub> ) N/A						
	This will bring the loading of the plant to percentage of hydraulic and 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? N/A						
	Signature and Tikle City Engines (						

#### F. SIGNATURE OF GOVERNMENTAL OFFICIALS

The undersigned have reviewed the proposal for the location of the above-described wastewater treatment facility and recommend approval or disapproval in spaces provided below:

	Recommend	Recommend	No	
<u>Date</u>	Approval	Disapproval	Comment	Signature of Representative
8-22-77	ille			Local Government (Cities, Towns,
8-22-77	WP.			and Sewer Districts  And Sewer Districts  Board of County Commissioners
8-22-77	2/1/2			Local Healthy Authority
8-22-71	and			C. M. M. Change
B-23-77	<u> </u>		-	Regional Planning Agency Regional Planning Agency
8-23-77				Gouncil of Government

G. ADDITIONAL INFORMATION MAY BE REQUIRED BY THE DISTRICT ENGINEER.

8-25-77 Date

Signature of Applicant

WQCC approved 1/77 WQ-3-A(rev. 3-77-40)

# ATTACHMENT A

# B. Sewers or Interceptors

	Pipe Diameter Inches	Length Feet	Maximum <u>Capacity</u>
PARADISE HILLS - PHASE II	15	920	2.63 MGD
INTERCEPTOR SEWER	18	4,815	5.60 MGD
RIVER ROAD INTERCEPTOR	48	4,937	29.89 MGD
SEWER	54	21,150	40.99 MGD

COLORADO DEFARMANTA CE HEL 1 WATER QUALITY CONTROL DIVISION 4010 Esst lith Avenue Cenver, Colorado 80020

# APPLICATION FOR SITE APPROVAL OF NEW SEVAGE TREATMENT MAKE (Sequired if Serving More Than Twenty Persons) (Submit in Duplicate)

	S: City Hall, Gra	and Junction, Colorado 8150	1
	•		
Inf	formation Recarding Fr	ofect Submitted for Raview:	
	ing the sewage trest but is not necessari development of the s	ment works on this particully limited to, a description ite location and service as	the justification for located any site. This should include the present and possibles.
2.	Size and type of tre MGD	etment facility proposed:	•
	See 12.5	PE served: 105,585	% Industrial: 10%
	(Gal/cay)	(Population aquivalent)	
	% Demostic: 90	$rac{7}{2}$ Proposed class of $i$	Tability: A
	Class of operato	m required: Class A	
3.	Location of facility	: Map See Attached Maps	
		area which includes the following work all sewage treatment work	
		domestic weter supply int	
			ction of potable water walls
	Wastes will be disch	exged to:	
4.			
4.	Watercourse	Colorado River via I	Persigo Wash
4.	Watercourse	Colorado River via I (Name of watercourse)	
4.	Watercourse	(Name of watercourse)	
4.	Classification of wa	(Name of watercourse)	
4.	Classification of wa	(Name of watercourse)  tercourse B2  Lance	

WOCC approved 1/77

6.	Does your proposed [adility require lift station( nywhere in the plant or service area? Yes
7.	What is the zoning for the proposed service area? Mesa County Consolidated zoning area
	Present zoning of site area? Agricultural & Forestry - Transitional District (AF-
-	Zoning within a 1-mile radius of site?  Please emplain coning: AF-T to north, west & south; Commercial (c) to northeast
	and Tourist District (T) to each
8.	What is the distance downstream from the discharge to the nearest domestic water supply intake? None from Grand Junction to Colorado & Utah state line.
	Cwner and address:
	What is the distance downstream from the discharge to the nearest non-domestic water supply intake? 105 miles Moab, Utah
	Name and address:
9.	Sewer lines: Approximate number of feet: N/A
	Sizes:
10.	Who has the responsibility for operating the facility?
	City of Grand Junction and Mesa County
	What is the legal status of the responsible party?
	Agreement not negotiated
11.	Who owns the land upon which the facility will be constructed?
	City of Grand Junction
	Please attach copies of the document creating authority in the applicant to construct the proposed facility.
12.	Estimated project cost: \$14,005,600
	Who is financially responsible for the facility?
	Federal Funding 75%, City & County 25%
	What is the method of finance? General obligation or revenue bonds

WQCC approved 1/77 WQ-3(rev. 3-77-40)

13.	Are there any major land developers involved in the development of the proposed service area? See Attachment B
	Give the name, address, and percentage of service area developed by any person if that percentage of development is greater than 10 percent.
	Of the total PE that you indicated in No. 2, how many of those FE's are presently existing? 60,000; are presently committed? 32,500.  How many FE's are proposed? 105,585
14.	Names and addresses of all water and sanitation districts within 5 miles of proposed wastewater treatment facility site and proposed service area:
	See Attachment B
	Attach separate sheet of paper if necessary.
15.	What is the relationship of this facility to any Areawide (208) Plans or Pasin (303(e)) Flans? (Contact Flanning Section, Water Quality Control Division.) Colorado River Basin 303(e) Plan
	208 Plan Underway
16.	Is the facility in an area subject to flocding? No
	If so, what precautions are being taken?
	Has the flood plain been designated by the Colorado Water Conservation Board, Department of Natural Resources?
	If so, what is that designation?
17.	List other sites other than the proposed site that were considered.
	N/A
18.	Are there any available laboratories for your use?
	If so, give name and location of lab.
	Grand Junction Laboratories
	435 North Avenue, Grand Junction, Colorado 81501

Wncc approved 1/77 WQ-3(rev. 3-77-40)

- 19. Attach proof that ( copy of this application was ( )t by certified mail to each of the following federal agencies, requesting their comment.
  - (a) United States Forest Service, Director of Materched, Soils and Minerals Management, 11177 West 8th Avenue, Lakewood, CO 80225.
  - (b) National Park Service, Office of Googarative Activities, Rocky Mountain Pagional Office, 655 Parfet Street, P. O. Box 25287, Denver, CD 80225.
  - (c) Bureau of Land Management, State Director (911 Planning), Room 700, Colorado State Bank Building, 1600 Bucadway, Denver, CS 80203

Please note: These federal agencies do not need to be contacted if the site that is being proposed bears no relactionable to any of the lands, streams, labes, or rivers operated by these exancies. The burden is on the applicant to show that the proposed site does not affect anything within the junisdiction of these agencies.

20. Please attach proof-of mailing to Dimesuom of State Parks, 1313 Sherman, Denver, CO 88203. The same origination applies have as in No. 19.

21.	Consulting engineer:	Henningson, Durham & Richardson Inc. of Colorado
	Address:	310 Capitol Life Center, Denver, Colorado 80203
	Telephone:	303/861-1300
22.		ional fortors what highe halp the Water Quality an indemed declaies on your application for site
		<u>:</u>

WQCC approved 1/77 WQ-3(rev. 3-77-40)

Applicant

#### B. SIGNATURE OF GOVERNMENTAL OFFICIALS

The undersigned have reviewed the proposal for the location of the above-described wastewater treatment facility and recommend approval or disapproval in spaces provided below:

Recommend	Recommend	No	
<u>Approval</u>	Disapproval	Comment	Signature of Representative
<u> 189</u>			Local Government (Cities, Towns, and Sewer Districts)
WR.			Board of Lounty Commissioners
STA			ostani Ordendad
l má	<u>-</u>		Collins Authority
*/			City/County Planning Agency
<u> </u>			Jack Ellerth 200 love To
16 M			Regional Planning Agency
04			Level Specific 2
1			Council of Government
		Approval  Disapproval  Approval  Disapproval	Approval Disapproval Comment  Approval Disapproval Comment  Approval Disapproval Comment  Approval Disapproval Comment

### C. Natural Hazards:

Comments of State Geologist regarding possible natural hazards:
Calorala River and Ferrigo Work Flored Rivers.
Posible compaction of soils under load.
Specific cité montontin of sois lefae
construction and daning teles place
Recommend approval:
Recommend disapproval:
Date: 8/24/77 Longiture Signature Superiori Gerling
Signature ).
approved 1/77

WQCC approved 1/77 WQ-3(rev. 3-77-40)

# B. SIGNATURE OF GOVERNMENTAL OFFICIALS

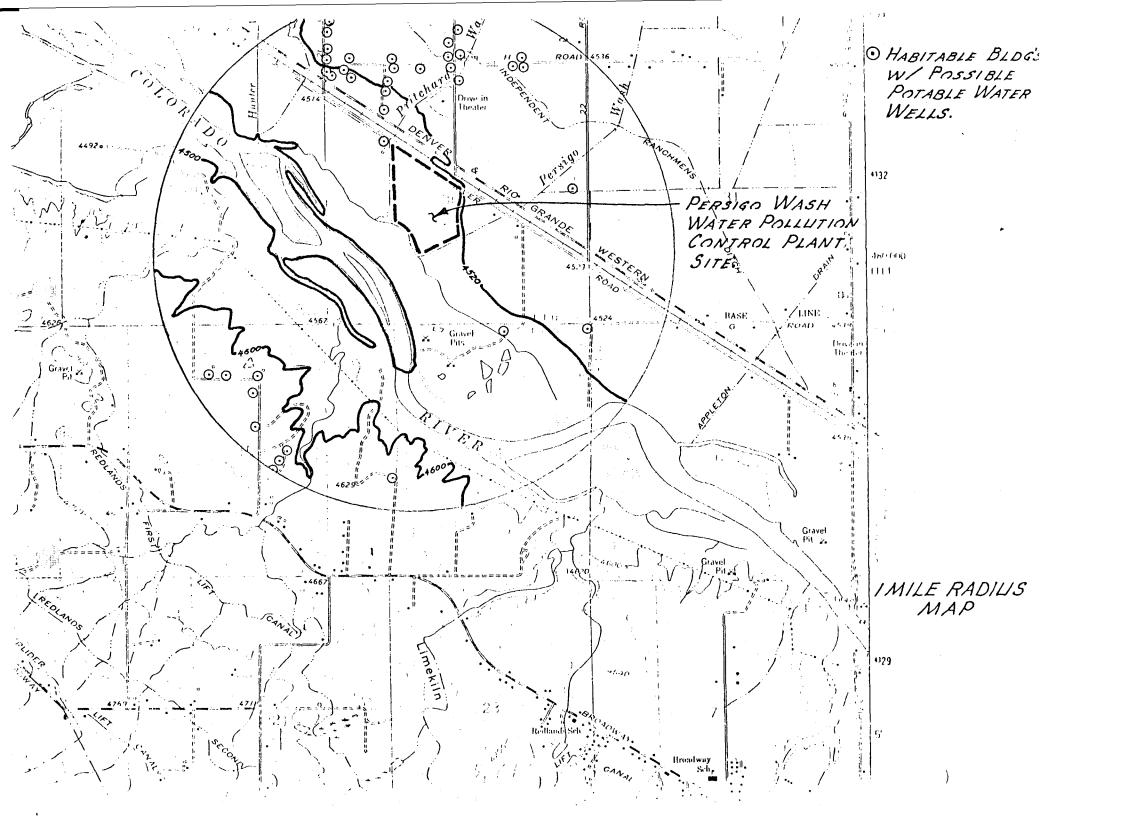
The undersigned have reviewed the proposal for the location of the above-described wastewater treatment facility and recommend approval or disapproval in spaces provided below:

Date	Recommend Approval	Recommend Disapproval	No Comment	Signature of Representative
8 <u>-22-7</u> 7	19			Local Government (Cities, Towns,
8-22-77	ZNR.			Board of County Commissioners
8-22-77	A HA			Local Realth Authority
8-23-17	<u> Ozud</u>			City/County Planning Agency
8-21-77	7			Regional Flanning Agency
<u> 33-77</u>	- <u>J. J </u>			Council of Government

#### C. Natural Hazards:

Comments of State Geologist regarding possible natural hazards:
Colorala River and Persigo Work Hord Rivers.
Posible compaction 1 soils under lovel.
Specific site misstature of soils before
construction and daning telus place
Recommend approval:
Recommend disapproval:
Date: 8/24/77 Signature  Signature  Superior Certagest
Signature )
Injuneary Oldoyed
approved 1/77 .

WQCC approved 1/77 WQ-3(rev. 3-77-40)



E ARR TO



## COLORADO DEPARTMENT OF HEALTH

4210 EAST 11TH AVENUE . DENVER, COLORADO 80220 . PHONE 388-6111 Anthony Robbins, M.D., H.P.A. Executive Director

April 11, 1977

Mr. J. E. Abbott, Vice-President Henningson, Durham, & Richardson 310 Capitol Life Center Denver, Colorado 80203

RE: Grand Junction/Mesa County, 201 Facility Plan Up-Date

Dear Jim:

In response to your letter of April 7, 1977, and our subsequent meeting. will try to outline the Division's position on the required effluent standards for the Grand Junction treatment plant (or plants).

As you know the present stream classification for the Colorado River below Grand Junction is  $B_2$ , or water suitable for fish and other aquatic life. Under this classification, and for the size of plant proposed, ammonia removal would be required during critical times of the year. The only way to remove the ammonia reduction requirement would be for the Colorado Water Quality Control Commission to reclassify approximately 3 miles of the Colorado River below Grand Junction to  $B_2$ -C and except the NH $_3$  criteria of 0.02 mg/l un-ionized NH $_3$ . We in the Division are doubtful the Commission would do this, and if they did, we are doubtful the EPA would approve it because of the concern for some endangered species of fish life in the Colorado River.

Therefore, we suggest H.D.R. consider NH<sub>2</sub> reduction, as outlined in the Basin plan, in their preliminary engineering plans. I think we pretty well discussed the various alternative configuration of plants (one regional vs. two smaller plants) in our meeting yesterday.

Future effluent requirements for the discharges are expected to be as follows:

30 mg/l (30day average), 45 mg/l (7day average) 30 mg/l (30day average), 45 mg/l (7day average) BOD5 SS

NH<sub>3</sub> 765#/day segment allocation (Grand Valley Canal diversion to Utah State line).

Fecal Coliform 6000 (30day average), 12000 (7day average) 0.2 mg/l or less

Cl<sub>2</sub> residual

Very truly yours,

FOR DIRECTOR, WATER QUALITY CONTROL DIVISION

Kenneth W. Webb, P.E., Chief

Water Quality Management Planning Section

KWW/emf

#### 13. Developers:

Bray & Co. 1015 North 7th Street Grand Junction, Colorado 81501

The Ridges Development Corp. 2721 North 12th Street Grand Junction, Colorado 81501

Embassy Homes 3026 Patterson Road Grand Junction, Colorado 81501

Jum tion Corporation 652 White Avenue Grand Junction, Colorado 81501

#### 14. Sanitation Districts

The Ridges Water & Sanitation District 2721 North 12th Street Grand Junction, Colorado 81501

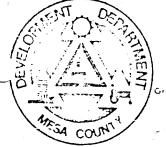
Fruitvale Sanitation District 2887 North Avenue Grand Junction, Colorado 81501

Clifton Sanitation District 137 3rd Street Clifton, Colorado 81501

Clifton Sanitation District No. 2 3222 Highway 6 & 24 Grand Junction, Colorado 81501

Central Grand Valley Sanitation District 3029 "D" Road Grand Junction, Colorado 81501

# CITY-COUNT DEPT.



P.O. BOX 897 - GRAND JUNICTION COLORADO - 81501 DIAL 303 243-9200 ext. 343

and Junction Planning - Mesa County Planning - Building Department

August 23, 1977

Mr. Dick Bowman
Water Quality Control Commission
P. O. Box 1687 Grand Junction, CO 81501

Dear Dick:

The Valleywide Sewer Committee is comprised of individuals representing all sewer districts and departments in the valley and were appointed by the Mesa County Commissioners to serve on a valleywide sewer advisory committee. This committee analyzed the type of sewer treatment facility that they would advise for the joint City of Grand Junction and the surrounding urbanized Mesa County area.

The Valleywide Sewer Committee advised the Mesa County Planning Commission that the facility described on the attached site plan application would be in the best interest of this community. The Mesa County Planning Commission accepted that advice along with the advice of the 201 facility plan addressing the location of the plant. The Mesa County Planning Commission recommended to the County Commissioners to accept the report of the Valleywide Sewer Committee, the mechancial plant located as described, and that the water is to be re-used in the area if at all possible.

The Mesa County Commissioners and the City of Grand Junction accepted this recommendation and called for implementation. This plant located at 22 Road and I-70 will serve the needs of this community in the forthcoming years.

Very truly yours,

Conni McDonough

Development Director

CMD:bc

cc: City Engineering, Duane Jensen

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