

System Performance Data - Mountain Views at Rivers Edge

In addition, here are some quick system facts and a legend for the wastewater characteristics.

Quick Facts

Building / Facilities: **RV Park**
 Start-up: **Apr-04**
 Location: **Creede, CO**
 Designer / Engineer: **Del-Mont Consultants, Inc.**
 Contractor / Installer: **RW Contracting, Inc.**
 Regulating Authority: **State of Colorado**
 Design Flows: **30,000 gallons per day**
 Grease Tank:
 Septic Tank: **40,000 gallons**
 Recirculation Tank: **30,000 gallons**
 Filters: **6,000 sq. ft. RSF**
 Actual Loading Rate (gpd/ft²): **0.69 GPD/ft²**
 System Configuration: **Mode 1**
 Discharge: **Surface to Rio Grande River**

Notes: Ultraviolet Disinfection
 Data taken from DMR's and lab reports provided by operator.
 Sodium bisulfate added to septic tank during 2007 season

Legend

BOD5: Biochemical Oxygen Demand (5 day, uninhibited)
 cBOD5: Carbonaceous Biochemical Oxygen Demand (5 day, inhibited)
 TSS: Total Suspended Solids
 TKN: Total Kjeldahl-Nitrogen (Organic and Ammonia Nitrogen)
 NH3-n: Ammonia-Nitrogen
 NO2-n: Nitrite-Nitrogen
 NO3-n: Nitrate-Nitrogen
 NOx: Nitrite + Nitrate
 TN: Total Nitrogen = (TKN) + (NO3-n) + (NO2-n)
 DO: Dissolved Oxygen
 pH: Measure of acidity, 7 is neutral. Wastewater w/value <5 or >9 are difficult to treat biologically
 Alk: Alkalinity
 TP: Total Phosphorus
 G&O: Grease and Oil
 FC: Fecal Coliform
 ND: None detected

Date	GPD	Influent											
		BOD5	TSS	TKN	NH3	NO3	NOx	TN	pH	Alk	TP	G&O	FC
May-05	290	520	164										
Jun-05	2800	381	384										
Jul-05	7800	465	314										
Aug-05	5560	685	358										
Sep-05	3010	504	664										
May-06	1660	304	218										
Jun-06	3240	1009	772										
Jul-06	6100	661	406										
Aug-06	5100	584	410										
Sep-06	3410	736	580										
May-06	1320	403	232		62.5					21			
Jun-07	2738	592	720		90.2					13.2			
Jul-07	8600	818	600		52.7					21			
Aug-07	5100	418	830		76.2					12			
Sep-07	2800	534	268		68.3					14			
AVE:	3969	574	461		70					16			

Filtrate Effluent											
BOD5	TSS	TKN	NH3	NO3	NOx	TN	pH	Alk	TP	G&O	FC
10	5						7.1			ND	448
16	4						7.3			ND	21
22	11		24.10				7			ND	32
17	19		4.63				6.7			ND	80
29	6		4.40				6.8			ND	16
18	28		3.92				7.5			ND	24
27	11		0.96				7.4			ND	460
22	13		17.10				6.9			ND	160
0	6.5		4.20				6.7			ND	32
0	0		0.00				6.8			ND	10
0	0		1.10				6.9		9.8	ND	ND
0	6		3.50				7.1		8.8	ND	526
12	7.6		13.00				6.8		7.8	ND	210
0	0		7.10				6.8		5.4	ND	83
0	8		10.00				7.2		5.3	ND	27
12	8		7				7		7	ND	152