

Rapid City Water Reclamation Division

Monthly Report for: **September 2011**



Collection system:

Private Backups:	12	YTD: 50
Public Backups:	0	YTD: 9
Sanitary sewer line cleaned (ft):	102814	YTD: 879241
Sanitary Sewer High maintenance line cleaned: (Blue Book):	12640	YTD: 138282
Sanitary Sewer Televised (ft):	11006	YTD: 48392.7
Sanitary Sewer Root Controlled (ft):	0	YTD: 0
Sewer Taps:	41	YTD: 318
Locates:	869	YTD: 6282

Lift Station gallons pumped - *Daily estimate based on pump curves and hours.*

Country Road	Elks Club	Elk Vale*	Hwy 16	Plum Creek	Red Rocks	Red Rock Meadows	Villagio
208468	47877		8601	3469	30603	16071	304

*Elk Vale station status critical, operating strictly on a bypass pump due to station pump failures.

Industrial Pretreatment:

Inspections of minor Industrial Users: 113 w/5 –poor ratings, four subsequently corrected.

Inspections/ Sampling of Significant Industrial Users: (0) Walk through: (0)

Inspections of Septic Tanks Installations: (2) Inspection of grease interceptor installation: (3)

Issued: Notices of Violation (0) Letters of Violation (0) Administrative Orders (0)

Show Cause Order (1)

- Received 2 discharge from landfill leachate pond/leachate wells
- Conducted 1 soil profile examination
- Continued to update IU files & continued development of a Class II MIU Permit-Categorical industry with zero categorical wastewater discharge.

Treatment Plant:

Parameter	Min	Max	Ave	Totals
Effluent flow (MGD)	8.89	10.83	9.56	286.83 MG
Rapid Creek Upstream	27.99 (MGD) 18.09 (CFS)	73.97 (MGD) 47.80 (CFS)	42.36 (MGD) 27.38 (CFS)	1,270.70 MG 169.88 MCF
Ammonia				
Influent (Mg/L)	17.90	23.70	20.56	Reduction %
Effluent (Mg/L)	0.20	8.52	3.16	84.63
7 Day Limit	7.24	15.04	9.79	
TSS				Reduction %
Influent (Mg/L)	144.0	210.0	178.95	95.19
Effluent (Mg/L)	6.3	12.3	8.60	
BOD				Reduction %
Influent (Mg/L)	108.50	199.5	156.88	94.68
Effluent (Mg/L)	4.5	11.6	8.34	

Biosolids Dewatered (To Landfill): 260.9 tons @ 28.29% solids

Biosolids Thickened (To compost): 873.7 tons @ 6.55% solids

Sludge to Holding Pond (gallons): 31,059 gal per day

Septage Processed (gallons): 15,300

Electrical Usage (KWH): 535,240 (Aug 5, 2011 – Sep 6, 2011)

Maintenance work orders completed: 421 YTD: 4,226

- Replaced lighting in sludge building loading bay and basement of the Trickling Filter Ops. Building
- Repaired and replaced chain and flight boards in the #3 primary clarifier.
- Installed new propane line from the propane storage tanks to the digester complex.
- Replaced the vent line off of the secondary digested sludge pump suction line.
- Completed replacement of the selector channel curtain in the South (#2) Aeration Basin. (Basin not restarted until Wednesday Oct 5th due to the 402 MH of cleaning required.)
- Black Hills roofing started & completed 95% of the metal shop roof replacement project.
- RCS installed the new #1 primary digester cover.

Division Finance Information:

Rapid City Water Reclamation Division Sept 2011 Treasurers Report

