

NPDES Permitting And the Bighorn River

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National Pollutant Discharge Elimination System

Section 402 of the Clean Water Act
33 U.S.C. § 1342

Authorizes the discharge of
pollutants to waters of the U.S.

NPDES Discharge Permits

USBR

- Yellowtail Dam MT0022993
- Yellowtail Visitor Center MT0029106
- Yellowtail Lagoon MTG589001

Fort Smith W & S District MTG589018

Crow M, R & I Water Plant MT0031827

Pretty Eagle Academy MTG589002

City of Hardin

- PWS Water Plant MT0030767
- Wastewater Treatment Plant MT0030759

Permit Discharge Effluent Limits

Technology Based Limits

Conventional Pollutants – 40 CFR § 401.16

- Biochemical Oxygen Demand
- Total Suspended Solids
- pH
- Fecal Coliform
- Oil and Grease

Toxic Pollutants – 40 CFR § 401.15

- Metals, Solvents, Pesticides

Water Quality Based Limits

- To meet Water Quality Standards
- Best Professional Judgement

Yellowtail Dam

1994 – Flow, pH, BOD 30/45, TSS 30/45 mg/l

1999 – Flow, pH, BOD 30/45, TSS 30/45 mg/l

2005 – Flow, pH, BOD 30/45, TSS 30/45 mg/l,
Oil & Grease 10 mg/l

2010 – Flow, pH, BOD 30/45, TSS 30/45 mg/l ,
Oil & Grease 10 mg/l, *E. coli*

Yellowtail Lagoon

1994 – Flow, pH, BOD 30/45, TSS 100/135 mg/l

1999 – Flow, pH, BOD 30/45, TSS 30/45 mg/l

2009 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil & Grease 10 mg/l

2010 – Flow, pH, BOD 30/45, TSS 30/45 mg/l , Oil & Grease 10 mg/l

Hardin WWTP

2001 – Flow, pH, BOD 30/45, TSS 30/45 mg/l,
Fecal Coliform 130/260 K, Chlorine 0.5 mg/l,
Metals, TDS, Salinity, Cyanide

2006 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil
& Grease 10 mg/l, Chlorine 0.5, Fecal Coliform
200/400, Metals

2011 – Flow, pH, BOD 30/45, TSS 30/45 mg/l ,
Oil & Grease 10 mg/l, *E. coli* 126/252 #/100 ml,
VOC, Metals, BOD & TSS % removal, Chlorine
0.5 mg/l, WET

How do you find out how well a facility is meeting their effluent limits?

<http://echo.epa.gov/>

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