Morillo Drain and Pump Station

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Morillo Pump Station

Morillo Drain & Pump Station

From Morillo Drain

Morillo Weir, Elev. = 29.75 m

To Rio Grande

To Diversion Channel

Legend

- Morillo Pump Station
- Morillo Pump Property Line

Google Earth
Morillo Diversion Channel

9 miles – From Pump to Closed Conduit

2 miles – Closed Conduit

14 miles – Downstream of Closed Conduit
Minute No. 223 – Measures for Solution of the Lower Rio Grande Salinity Problem

- Provides background, identifies issues, alternatives, preferred alternative, but does not commit

- **El Morillo Drain waters** – “because of their high salinity despite the fact that they increase the volume of Lower Rio Grande waters, do not increase their beneficial value but on the contrary diminish that value; and that it is of interest to the two countries to preserve the beneficial value of the waters of the Rio Grande by avoiding or correcting their high salt concentrations to the extent it may be practical to do so.”

- This minute covers normal day to day expenses for the operation and maintenance of pump station and diversion channel
IBWC Minute No. 223
Works jointly funded under Minute No. 223

- Electricity for Pump Station
- Routine maintenance and upkeep of pump station
- Vegetation management along the diversion channel
- Purchase of supply and materials for maintenance
- Emergency repairs of erosion and concrete lining of diversion channel
- Wages for pump station personnel
IBWC Minute No. 303

Minute No. 303 – Operation and Maintenance of the Jointly – Financed Works for Solution of the Lower Rio Grande Salinity Problem

- That the Mexican Section coordinate the execution of the operation and maintenance of the works in Mexico under the terms of an annual work plan developed by the Commission under which the bypass channel will operate at its capacity of 105.9 cfs (3 cms) at all times and will seek to avoid high salinity concentrations in the waters of the Rio Grande upstream of Anzalduas Dam

- Capital improvement projects are agreed upon by Principal Engineers of both sections to ensure projects will be funded prior to solicitation commencement of projects
IBWC Minute No. 303

Projects performed under Minute No. 303:

• Replacement of and preventative maintenance of pump and wells
• Brush and sediment removal at pump intake and along 25 miles of diversion channel
• Maintenance of sluice gates and radial gate
• Desilting and trash removal at five (5) siphons within the diversion channel
• Other upgrades to electrical and mechanical components at the pump station

These projects are planned for and performed during non-irrigation season to minimize the impact to the Rio Grande from saline waters
Generator, Pump Station & Overhead Crane

- New Generator Installation
- New Generator Room
- Control Panel and Pumps
- New Overhead Crane for Use on Pump Maintenance
Vegetation and Sediment Removal

Vegetation removal from banks and right of way and sediment removal of channel
Erosion repairs after heavy rainfall overtopped and eroded the banks of diversion channel.
Sediment Removal at Siphons

Sediment and trash removed from siphons along the diversion channel.
Any Questions?

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