

Water Quality Sampling on the New River

Carlos Peña,
USIBWC Environmental Management,
Division Engineer

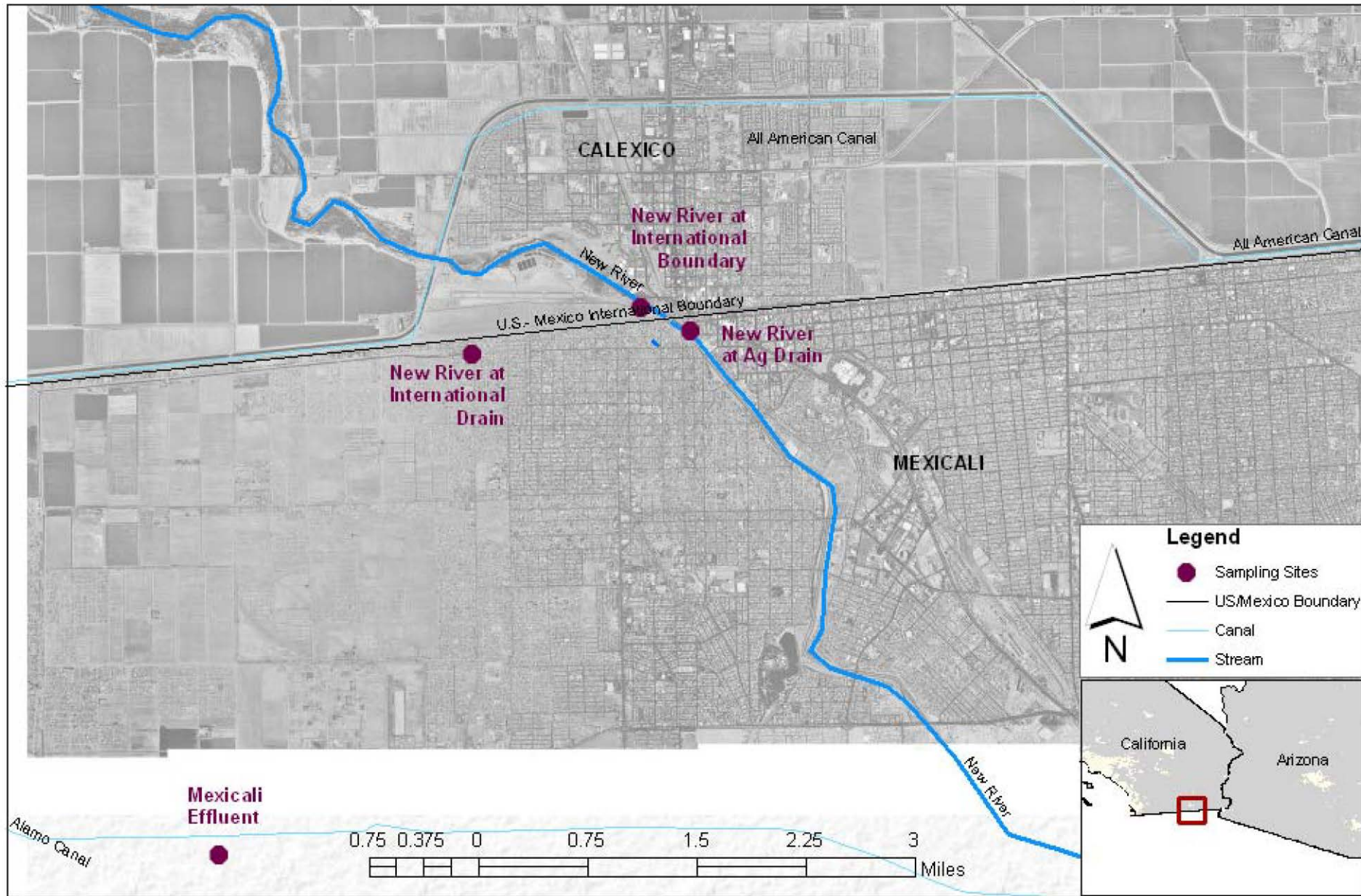
IBWC Minute No. 264

- *Recommendations for Solution of the New River Border Sanitation Problem at Calexico, California – Mexicali, Baja California Norte*
- August 26, 1980
- Set qualitative and quantitative standards for the New River at the International Boundary

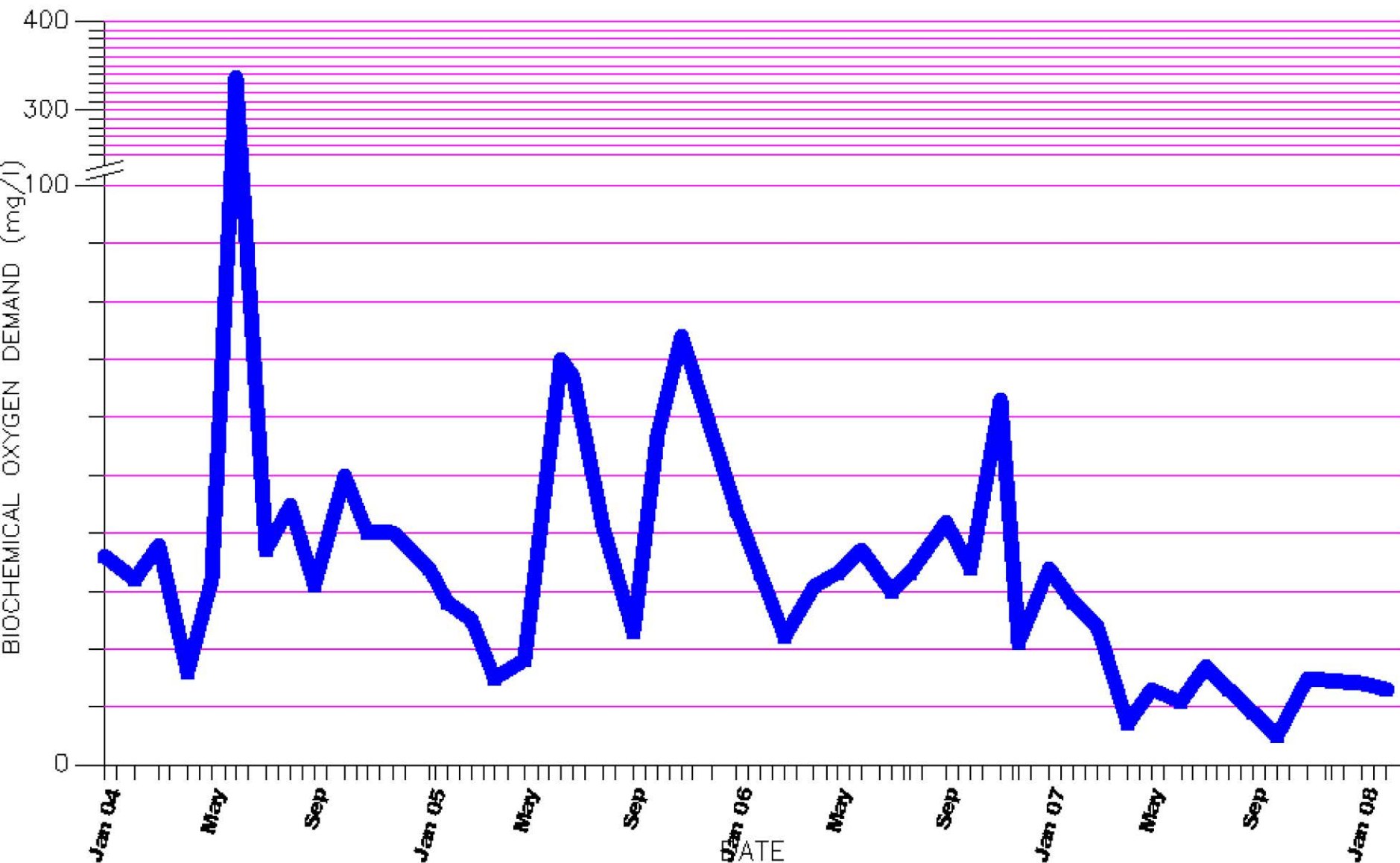
Min. 264 Quantitative Standards

	Monthly Average Values		
Sampling Location	NR @ IB	Lagoon Discharge Canal (Effluent)	Upstream of Discharge Canal (above Ag Drain)
Parameters			
BOD ₅		30 mg/l filtered	30 mg/l unfiltered
COD		70 mg/l filtered	100 mg/l unfiltered
pH	6.0 - 9.0		
DO	5.0 mg/l		
Fecal Coliform			30,000 colonies/100ml

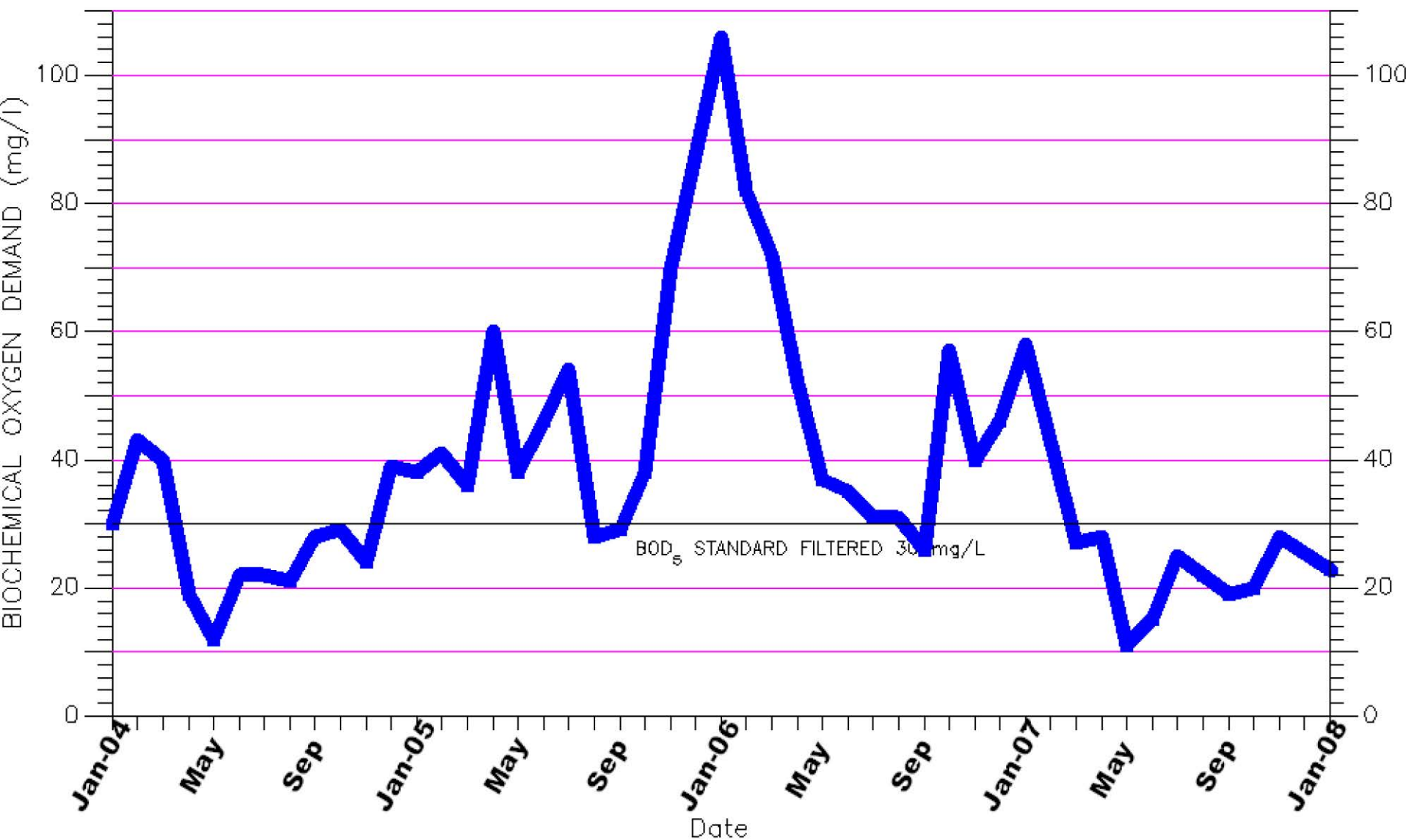
USIBWC Minute No. 264 New River Sampling Sites



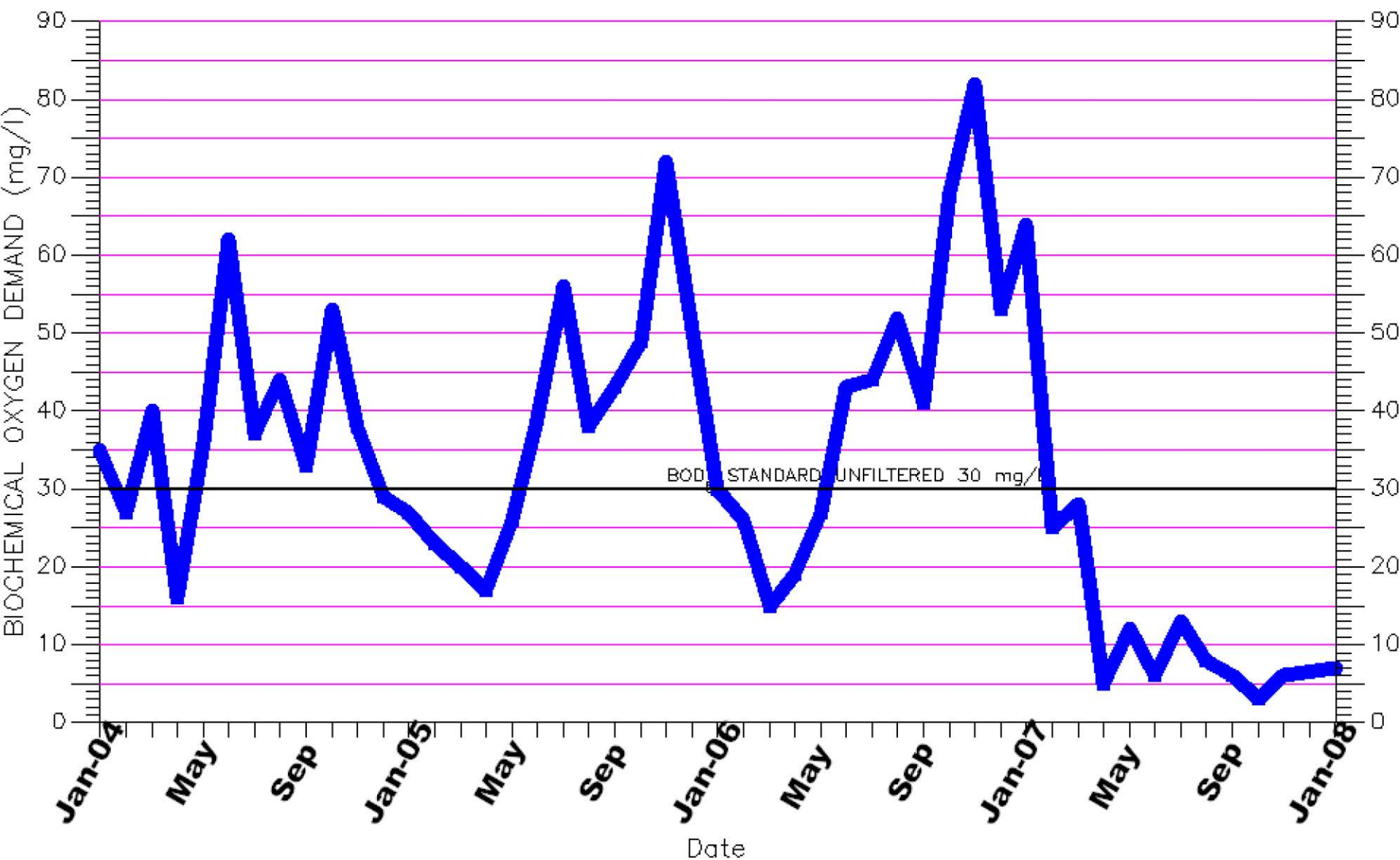
NEW RIVER at INTERATIONAL BOUNDARY
BIOCHEMICAL OXYGEN DEMAND
January 2004 - January 2008



EFFLUENT
BIOCHEMICAL OXYGEN DEMAND₅
January 2004 - January 2008



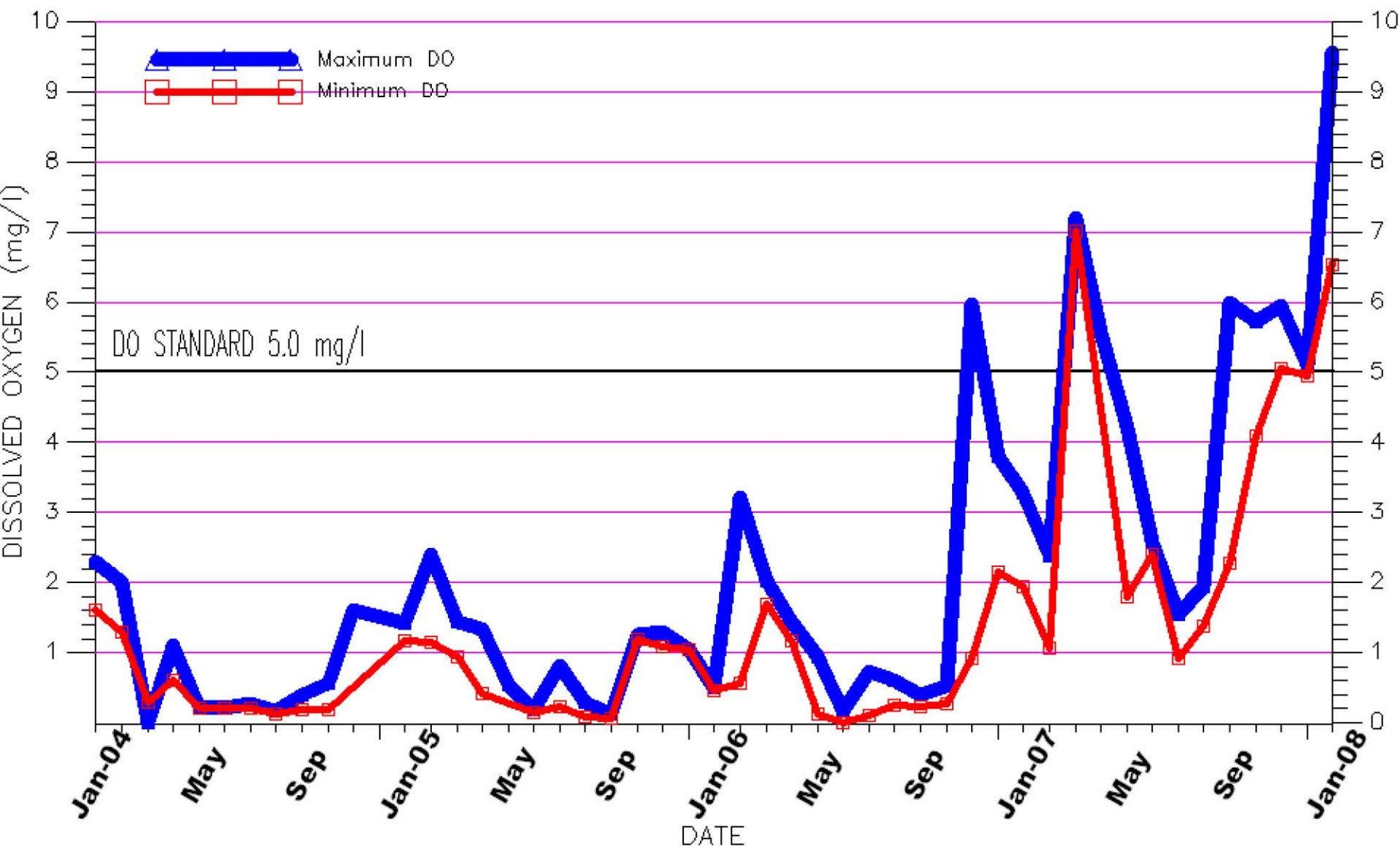
NEW RIVER ABOVE AG DRAIN
BIOCHEMICAL OXYGEN DEMAND₅
January 2004 - January 2008



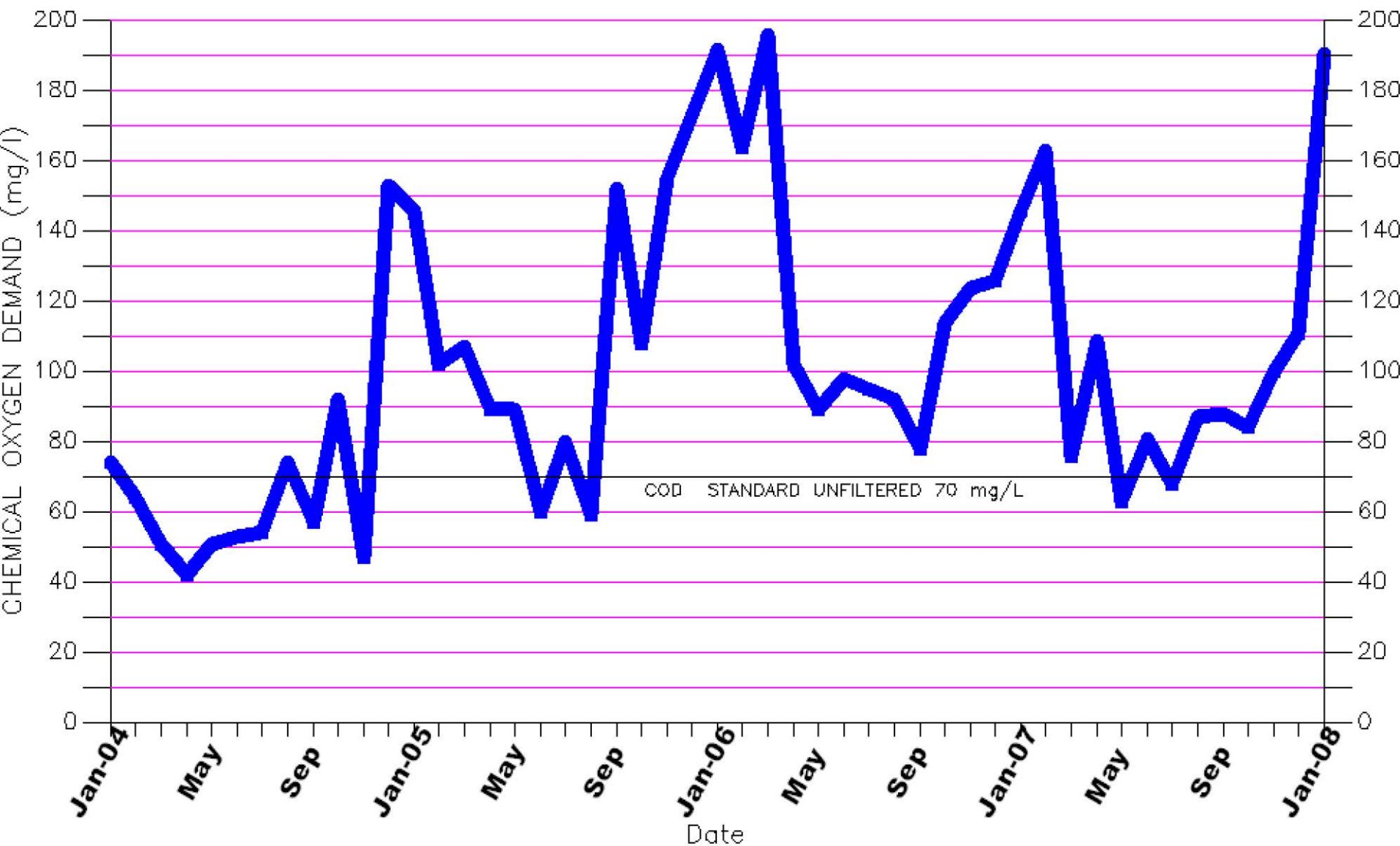
NEW RIVER AT INTERNATIONAL BOUNDARY

DISSOLVED OXYGEN

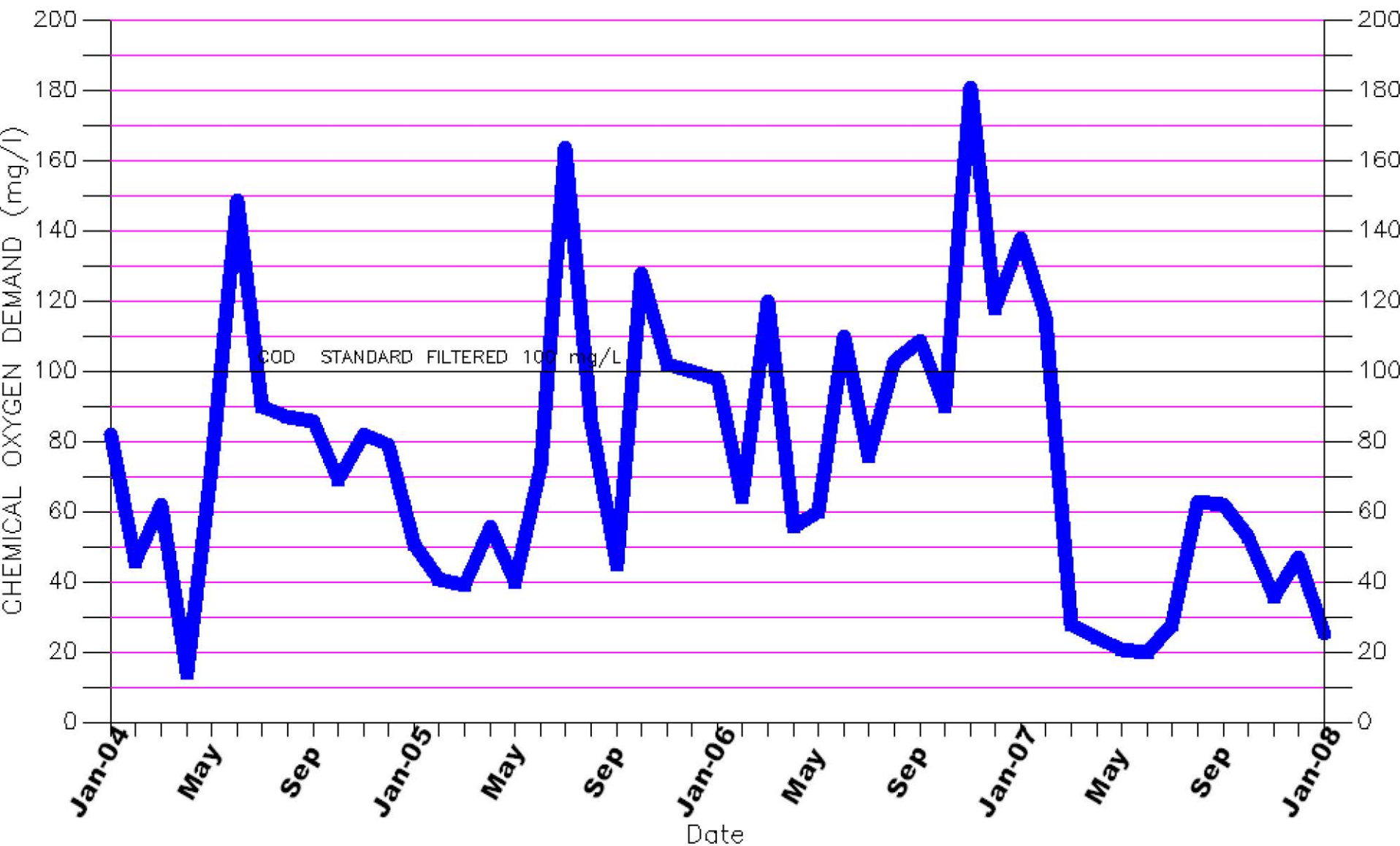
January 2004 - January 2008



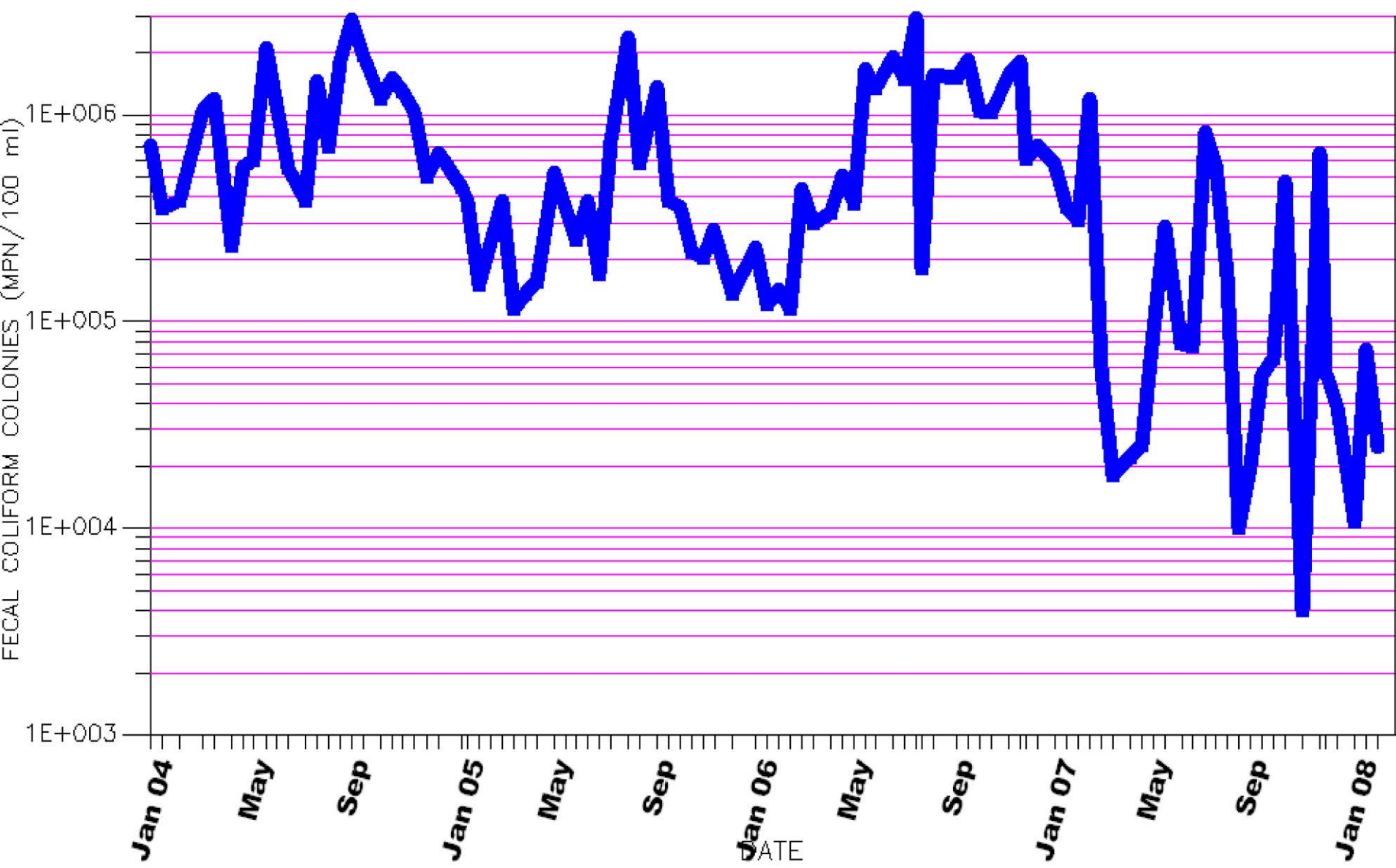
EFFLUENT CHEMICAL OXYGEN DEMAND January 2004 - January 2008



**NEW RIVER ABOVE AG DRAIN
CHEMICAL OXYGEN DEMAND
January 2004 - January 2008**



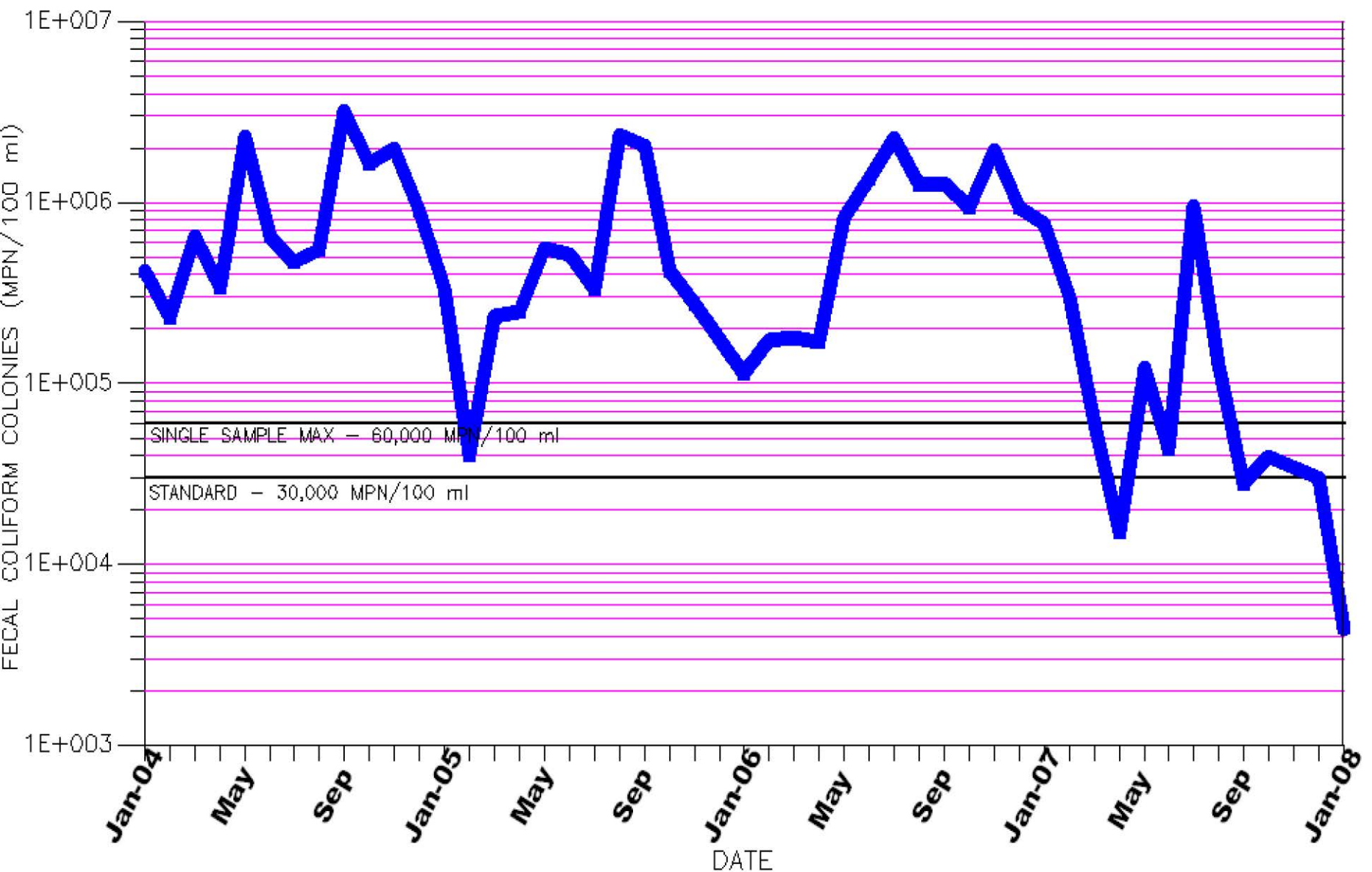
NEW RIVER at INTERNATIONAL BOUNDARY
FECAL COLIFORM
January 2004 - January 2008



NEW RIVER ABOVE AG DRAIN

FECAL COLIFORM

January 2004 - January 2008



Conclusions from Graphs

- BOD has decreased and now meets the standard
- COD has decreased at NR above AD and meets the standard, although no improvement at Effluent
- DO has increased and now meets the standard for the first time
- FC has decreased somewhat