



USIBWC Citizen's Forum November 8, 2012

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SOUTH BAY INTERNATIONAL WTP



Plant Operations Liquids



Water Quality

- Effluent quality in the first year of operation was highly variable, with violations every month due to solids washout plus a major plant upset June – Aug 2011.
- Suspected causes were possible inadequate secondary clarifier capacity, highly variable influent ww strength, and excessive CBOD and TSS removal in the primary plant.
- Polymer addition to the secondary clarifiers began in Jan 2012 and the plant has been in compliance since March 2012.
- Even higher CBOD and TSS in May 2012, along w/ higher temps, eliminated need to add polymer, but at cost of power (more air)



Recent Numbers

	CBOD	TSS	CBOD	TSS
March	388	430	19	20
April	386	412	15	15
May	345	361	15	15
June	383	410	9	8
July	341	351	9	9
Aug	399	481	10	9



Regional Board/Court Order

- Clarifier study by URS is underway to develop solution alternatives to the solids washout problem, expected report in February 2013.
- IBWC is still under court order – same one that mandated secondary plant construction. The plant is without a current NPDES permit, but with continued compliance we expect the order to be lifted and the permit to be issued. Next status meeting in Feb 2013.
- Contract with City of San Diego for monitoring was recently awarded for the next 5 years and includes sampling at DM Road Bridge weekly during wet season



Pretreatment

- IBWC and CILA are re-introducing biannual pretreatment meetings with CESPt and SPA to discuss wastewater issues affecting the SBIWTP, first one was held in mid Sept 2012.
- As part of ocean monitoring contract, IBWC continues to fund analysis of parameters for samples taken by CESPt, in support of City of Tijuana pretreatment.



Plant Operations- Solids

- We sometimes appear to be receiving “old” solids in the influent – this with our high TSS and sediment loads sometimes poses problems for plant operations
- EPA is funding a solids stabilization study – to study and cost out alternatives to lime stabilization. Alternatives include various anaerobic and aerobic digestion technologies
- Goals are:
 - 1) reducing sludge volumes for disposal
 - 2) generating beneficial byproducts (biogas)
 - 3) high quality solids, at relatively low cost



Plant Operations- Solids Hauling

- MX responsible for solids hauling – disposed of at SADLB plant
- Recently we purchased 3 new trucks/trailers for Mexico's use. They are responsible for O&M, we retain ownership. They were put into operation in September.
- Fuel is purchased in US and reimbursed, maintenance is done in US and also reimbursed until warranty has expired and Mexico feels comfortable with maintenance.



Plant Operations Solids Hauling



Plant Operations- Security

- External audit in 2011 raised concerns with physical and SCADA security at the plant
- Logs are kept by Veolia and USIBWC when MX personnel enter or leave SBIWTP
- Mod to Veolia contract is funding limited IT and physical security – a SOW for a security assessment and long term solutions is pending
- Security guards is probably long term solution



Trash and Sediment

- TRV Recovery Team initiated by Regional Board pursuant to TMDLs for TJ River
- Sediment and trash removal underway – 60k CY, material to be processed and could potentially be used for beach replenishment at IB.
- Regional opportunities for sediment management are being addressed with State Parks and City of SD.
- June 19, 2012 binational meeting resulted in Commission commitment to a Joint Engineer's Report and Minute to address influxes into TJ River Valley and Tijuana River Estuary.



Trash and Sediment Removal



Trash and Sediment Removal



Tijuana River Clearing

- Selective clearing of floodplain performed by CBP contractor near DairyMart Road Bridge in critical habitat area for LBV
- Work was coordinated with Wildcoast cleanup for Oct 20
- Arundo has been cut to near ground level, CBP contractor will return and hit with herbicide as it regrows.



Tijuana River Flow

- Discharge to Tijuana River from SYLPOE construction dewatering operation by GSA has begun
- Approximately 1-2 MGD will be discharged to the river just downstream of the US/Mexico border continuously for 8-10 months.
- Mexico has begun replacing/repairing parallel line (in the vicinity of Goat Canyon) for reclaimed water to be pumped from Pump Station No. 1 to discharge near San Antonio de los Buenos.



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