

**South Bay International Wastewater Treatment Plant
Secondary Treatment Upgrade
November 24, 2010**



Startup Foaming in Aeration Basin No. 3



Measuring DO and MLSS in Aeration Tank 6



Polymer Addition System and DAF Tank



Non Potable Water Pump Station



Dissolved Air Flotation System



Secondary Clarifiers

Overview - (Progress Report From Week of November 21) – ASTs – Crack repairs in gallery. Installed interposing relays in MCC buckets. SSTs – Crack repairs in gallery. Re-installed NPW pumps. Floor hardener in LCC. Installed interposing relays in MCC buckets. DAF – Floor hardener in LCC. USST #2 – Painting exposed process piping. Set 2 MCC sections in existing solids processing bldg for USST #2 equipment. Blower Bldg – Continued insulation of CA and PA discharge piping. Floor hardener in blower and electrical rooms. O&M Bldgs. – Painting and glass for interior doors. Connected FM200 tank. Generator – NA Sitework – NA.

Misc – Modified diffuser and supports at EBS. Caulking exterior door frames at various buildings. Pipe painting touchup at various locations. Replaced main switchgear PLC in Switchgear Bldg. Grouting electrical baseplates. I&C loop checks. Continued installing conduit tags.

1. Project Schedule

- a. Notice to Proceed Signed November 24, 2008
- b. Construction Duration 830 days
- c. On site work began January 5, 2009

2. Project Financial Information

- a. Award Amount \$87, 637, 816
- b. Current Contract Amount \$92,738,784
- c. Modification No. 1 - \$179,150
- d. Modification No.2 - \$62,819
- e. Modification No. 3- No cost change
- f. Modification No. 4 – VE <\$151,380>
- g. Modification No. 5 – VE <\$35,939>
- h. Modification No.6 – install duct bank vs bus duct
- i. Modification No. 7 – No cost change
- j. Modification No. 8 – Not Used
- k. Modification No. 9 - \$555 (definitization of Unilateral Mod No.7)
- l. Modification No. 10 -\$2,000
- m. Modification No.11 - VE <\$8,224.69>
- n. Modification No. 12 – VE <\$5,175>
- o. Modification No. 13 – cancellation of Modification No. 6
- p. Modification No. 14 - \$7,342 (addition of jib crane)
- q. Modification No.15 - time extension of 70 calendar days - Mods 1 and 2
- r. Modification No. 16 - \$1,857 (definitization of Mod 14)
- s. Modification No.17 - \$11,377 (I&C Participation)
- t. Modification No. 18 - \$52,074 (I&C additions)
- u. Modification No. 19 - \$7,000 add VPN (unilateral)
- v. Modification No.20 - \$850,000 (acceleration- unilateral)
- w. Modification No. 21 – \$12,022 (RFIs 427 and 385)
- x. Modification No. 22 - \$19,846 (Submittal 11 82 18 increase slab thickness Blower Bldg and RFI 328)
- y. Modification No.23 - \$3,170,715 (definitization of Mod 20, acceleration with secondary compliance date of January 5, 2011 and final contract completion date of April 15, 2011.)
- z. Modification No. 24 - \$15, 949 (Definitization of Mod 19)
- aa. Modification No. 25 - \$24,900 (Addition of C channels or HVAC, modify sump pump electrical, add conduits between MCC –SST1 and LCC-SST1, change lighting fixtures at SST Effluent Area.)
- bb. Modification No. 26 - \$25,132 (Add AST Corner Reinforcing Steel, Add 6 electrical conduits from EH33A to SST, Add Conduits between SST-LC1 and TPB)
- cc. Modification No. 27- \$70,728 (Add Automatic Transfer Switch, Add SST Wall Recesses, Add Upgrade SST and AST Sump Pumps)

- dd. Modification No. 28 – \$16,840 (Add Drain Lines for TWAS Pumps, Add Widen North Wall SST Effluent Channel, Relocate NPW and PWA Piping around SDG&E Power Pole.
- ee. Modification No. 29 - \$41,477 (Add Floor Drain Changes, Add Change to Existing PCL Switchgear with Allen Bradley Compact Logix)
- ff. Modification No. 30 - \$62,578 (Add 16” Duplex Basket Strainer)
- gg. Modification No. 31 - \$26,252 (Provide additional SCADA and Programming for RS View Conversion)
- hh. Modification No. 32 - \$10,003 (Provide Electrical Connections for Exhaust Fan relocation, SST Gallery)
- ii. Modification No. 33 - \$28,331 (Resolve Storm Drain/Water Line Conflict and Extend Four Electrical Conduits for Future SST Expansion)
- jj. Modification No. 34 - \$31,194 (PERC Isolation, Temporary Relocation of Lighting Circuit at USST No.1)
- kk. Modification No. 35 - \$50,000 (unilateral - Modify SST Influent Channel – Channel Air Drop Legs and Mid Channel Fillet Wall)
- ll. Modification No. 36 - \$100,000 (unilateral - Modify SST Influent Channel – Channel Air Drop Legs and Mid Channel Fillet Wall)
- mm. Modification No. 37 - \$36,361 (Add Flex-Tend and Ex-Tend Expansion Joints, USST)
- nn. Modification No. 38- \$23,399 (Add ARC Flash Hazard Analysis and Change Two Chemical Metering Pump Types)
- oo. Modification No. 39 – \$18,154 (definitization of Mod 18, I&C Additions)
- pp. Modification No. 40 – \$13,833 (additional chemical pipe testing manhole and relocation of channel air diffusers)
- qq. Modification No. 41 - <\$34,697> (credits for air blower disencement, air suction piping insulation and air channel blower enclosures deletion)
- rr. Modification No. 42 - <\$2,124> (credit for substitution of foreign material)
- ss. Modification No. 43 - \$1,241 (add Z shape embedment for future launder)
- tt. Modification No. 44 - \$56,089 (add Primary Effluent Bypass Structure air bubbler level controller)
- uu. Modification No. 45 - \$20,747 (modification of LCPSSKPS1 to add an RIO panel, including an operator interface terminal)
- vv. Modification No. 46 – \$147,212 (final amount for additional I&C construction resulting from I&C workshops)
- ww. Modification No. 47 - \$104,995 (definitization of Mod 36 – Modify SST influent channel)
- xx. Modification No. 48 –VOID
- yy. Modification No. 49 - \$32,788 (furnish and install field weld reinforcing pads)
- zz. Modification No. 50 - \$25,892 (conversion of existing plant SCADA from RSView32 to FactoryTalkViewSE)
- aaa. Modification No. 51 - \$17,454 (addition of EBBA Iron Flex-Tend expansion joints, USST2)
- bbb. Modification No. 52 - \$6,812 (modification of AST baffle door latches)

- ccc. Modification No. 53 -<\$120,074> (irrigation and landscaping credits)
- ddd. Modification No. 54 - <\$7,369> (credit for SST beam deletion, NEMA 7 housing and elevated blower building walkway platform.)
- eee. Modification No. 55 – \$70,253 (modification to Storm Water Pollution Prevention Permit, structural enhancement to southeast stairwell at AST, add starters for pressurization HVAC units; extend conduits for MCC-USST)
- fff. Modification No. 56 - \$11,000 (unilateral – trace fiber optic highway at LCP-PEB.)
- ggg. Modification No. 57-<\$44,295> (credits for deletion of SST exhaust fan, relocation of FRP duct and relocation of 2 exhaust fans; deletion of epoxy coating on underside of SST launders, and elimination of blower discharge silencer and inclusion of additional supports and double door check valves for the blower discharge)

3. Project Status

Project is 96% complete. Primary effluent was turned into the aeration basins on Nov12 and the plant was seeded with waste activated sludge from the Encina WWTP on November 19. Currently the MLSS concentration is approximately 350 mg/l, and Tanks 1, 2, 6, and 7 are growing biomass – the remaining aeration basins are being used to waste air until such time that the biomass is sufficiently large and additional tanks can be brought on line.

Approximately 20 PCL salaried personnel are on site. PCL is ramping down and continues to move personnel to other sites. To this date, 31 of 31 subcontractors have worked, or are currently working, on site.

One of the PCL office trailers has been moved from the site as personnel move to other jobs.

PCL has submitted 680 Requests for Information (RFIs); approximately 100% have been answered: of 798 submittals, approximately 770 have been answered.

4. Site Conditions

- a. Moist

5. Key Events

- a. None

- 6. Detailed Project Schedule –Scheduled date of final contract completion will be April 14, 2011. Seeding of the secondary plant with activated sludge began November 16, and start up activities will take place from mid November to January 1, 2010. The date of secondary compliance is now January 5, 2011.
- 7. The latest schedule is shown on the attachment .pdf file. This monthly schedule update is for information purposes only and does not ascertain, affirm or infer definitive changes to the contract's base-line schedule, which represents the contractual performance period agreed upon by the parties. Any implied or actual impact on the schedule as reported in this update is subject to review and negotiation prior to acceptance into the base-line schedule by the IBWC.