

City of San Buenaventura



Wastewater Treatment Plant Nutrient Removal Improvements Monthly Progress Report



Prepared By:
MNS Engineers, Inc.

June-July 2009

Schedule and Budget Summary

Wastewater Treatment Plant

Nutrient Removal Improvements

Schedule Summary

Notice to Proceed	March 23, 2009
Original Contract Days	894
Contract Days Added	0
Revised Contract Days	894
Elapsed Time (Days)	(131)
Remaining Time (Days)	763
Contract Completion Date	September 3, 2011
Time Elapsed to Date	15%
Work Completed to Date	20%
Approved Change Orders	None

Budget Summary

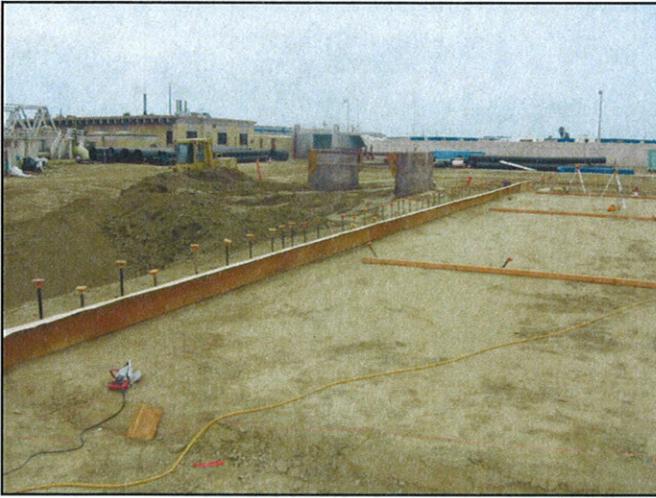
Original Contract Amount	\$14,167,000.00
Approved Change Orders	<u>\$0.00</u>
Revised Contract Amount	\$14,167,000.00
Previous Payments	\$2,628,392.75
Current Month Pay Request	<u>\$246,693.00</u>
Total Work Completed	\$2,875,321.75
Work Remaining	\$11,300,678.25

MNS Budget Summary

Original Contract Amount:	\$1,749,005.00
Approved Change Orders:	\$0.00
Actual Contract Amount:	\$1,749,005.00
Value of Work Completed to Date:	\$274,477.62
Value of Work Budgeted to Date:	\$290,082.04
Variance	<\$15,604.42>
Contract Amount Remaining:	\$1,474,527.38

Progress Summary

BAR/FET/ANOXIC TANKS



Concrete forms & water stop for Aeration Tank

Summary of Work

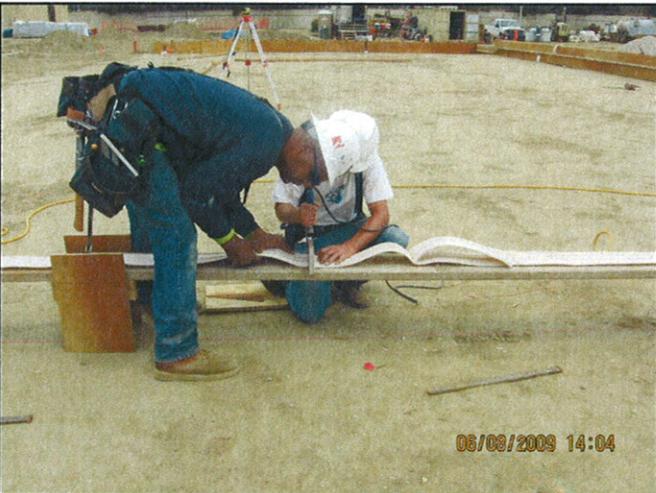
Contractor continued placing compacted fill with geogrid mats. All three tanks are completed to subgrade. Foundation for flume structure has been excavated and forms placed. Contractor completed the forming of the South half of the anoxic tank and is installing as much of the waterstop as possible at this time. The reinforcing steel subcontractor moved in and placed the reinforcing steel. The carpenters then buttoned up the rest of the forms and placed waterstop. Electrical contractor installed electrical conduits.



Slurry Existing 24" Air line at Flume Footing

Progress Expected Next Month

The contractor has scheduled a pour for the first week of August for the first two grids of twelve in the anoxic tank and should be able to make another pour every two or three weeks.



Installing Waterstop

Open Issues

None

BAR/FET/ANOXIC TANKS

More Photos



Reinforcing Steel for Anoxic Tank



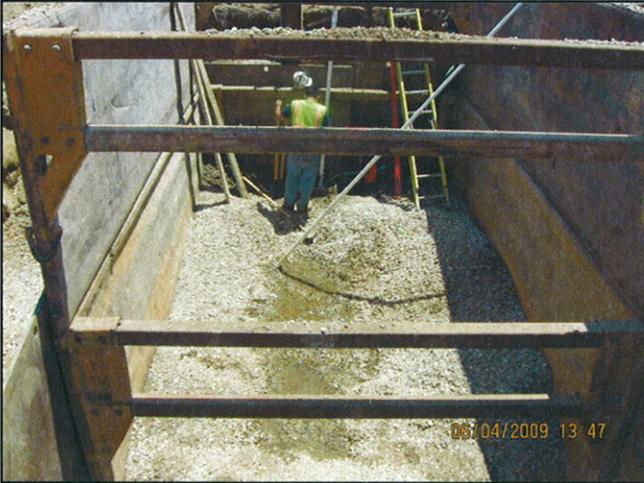
Reinforcing Steel for Anoxic Tank



Reinforcing Steel for Anoxic Tank

Progress Summary

DEMOLITION/YARD PIPING



Excavation for 48" MLR Line & 24" PEFF line bypass



Fusing 20" HDPE RAS pipe in trench



20" HDPE RAS pipe in trench

Summary of Work

Contractor removed abandoned pipelines as directed. Contractor installed site drainage piping and connected to existing drain. They excavated for the 20" RAS pipeline from the RAS pump station to the outlet on the North side of the new BAR tank and laid the 20" HDPE RAS pipe. They have completed most of the structure backfill. Contractor continued to install more 6" drain line and laterals and began work on the 6" WAS line.

Progress Expected Next Month

Contractor plans to install the 8" WML line and the 4" SC line. They plan to install a bypass in the existing PEFF line to allow for installation of the 48" MLR line. Contractor plans to install the 48" MLR line and the 30" PE line under the FET and BAR tank. They also plan to install the Tee and Valve in the existing PEFF line for the new PE line.

Open Issues

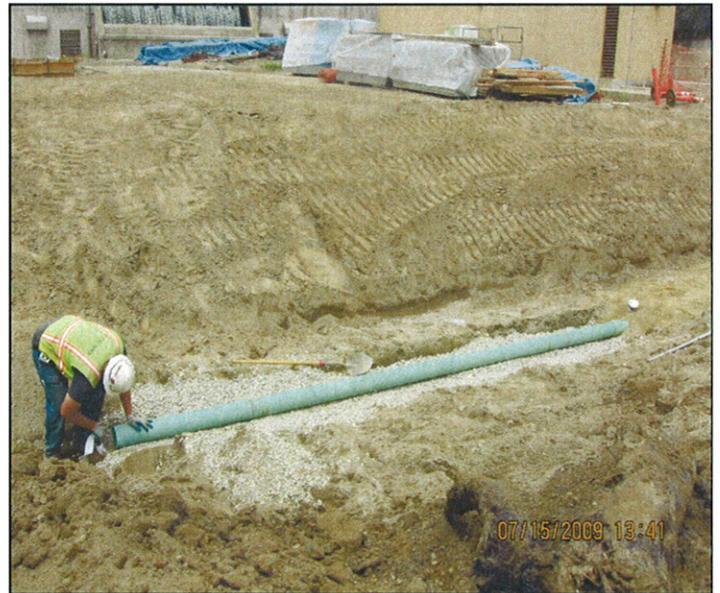
None

DEMOLITION/YARD PIPING

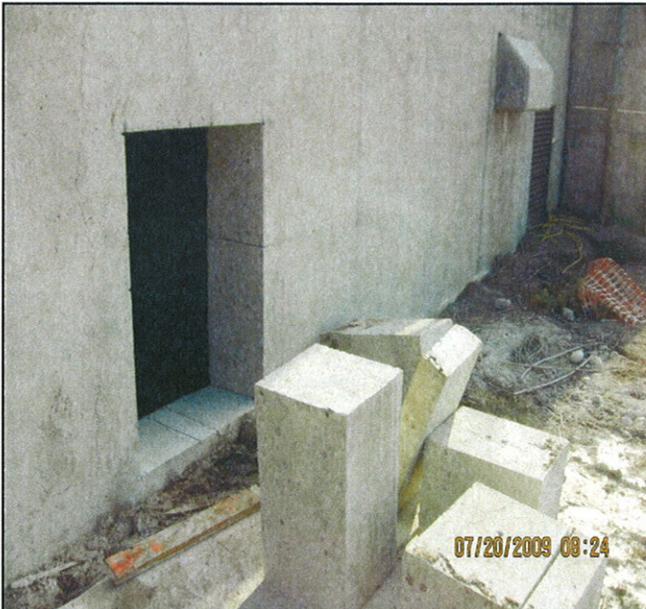
More Pictures



Existing 24" PEFF line bypass area



Installation of 6" Drain Line South of Secondary Clarifiers



Demolition of South Wall of Existing Secondary Clarifier for RAS pipes



Core holes in Existing Tanks existing Gallery for 36" ML Pipes

Progress Summary

RAS Pump Station



RAS pump slab ready for reinforcing steel



RAS concrete forms

Summary of Work

Contractor installed underground drains set to grade and formed slabs. Electrical Subcontractor installed underslab grounding and conduit. Reinforcing Steel Subcontractor installed reinforcing steel. The first concrete placed on the project was the Contractor poured the RAS Pump Station slab. This was the first concrete placed on the project and took place on July 14, 2009. They stripped the forms, cleaned up the slab and formed the pump pads.

Progress Expected Next Month

Contractor plans to pour the pipe support foundations and pump pads.

Open Issues

None

RAS Pump Station

More Pictures



Finish Concrete – RAS Pump Foundation Slab



RAS Pump Foundation Slab on Grade



RAS Pump Pads Formed

Progress Summary

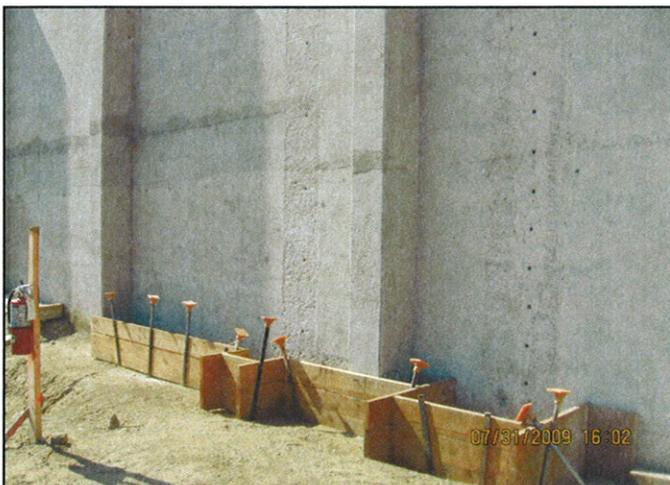
ML Pilaster & Pipe Supports



Layout for Pilasters



Dowel Holes



Concrete Forms for 36" ML Pipe pilasters

Summary of Work

Carpenters laid out the pilasters and doweled holes so they can prepare the area for the new pilasters, beams and pipe supports that transfer the wastewater between the new Anoxic Tanks and the existing Aeration Tanks. Penhall core drilled the existing aeration tank with 40" holes to accept the 36" ML pipes that tie the new Anoxic Tanks to the existing aeration tanks.

Progress Expected Next Month

They plan to install the reinforcing steel and form the pilasters and pipe supports.

Open Issues

None



Dowel Holes & Bushing for 36" ML Pipe Pilasters

Progress Summary

MLR Pump Station, Pipe Supports & Channel



Concrete Blocks Exposed During Excavation



Excavation for MLR Pumps, Pipe Supports and Channel Foundation



Interfering Portions of Blocks Chipped Off

Summary of Work

Contractor excavated for the MLR Pump Slab, Pipe Support Pads and Channel Support Foundation. They cut back the exposed concrete blocks that will interfere with the new Pipe Support Pads and Channel Foundations. The blocks were poured oversized and had to be chipped back to their planned size so the new construction can proceed. Contractor formed the Pipe Support Pads and removed the end wall of the existing channel and prepared it to be tied it into the new MLR Channel.

Progress Expected Next Month

Compact the existing subgrade and pour the Pump Slab, Pipe Support Pads and Channel Foundations.

Open Issues

None

MLR Pump Station, Pipe Supports & Channel

More Pictures



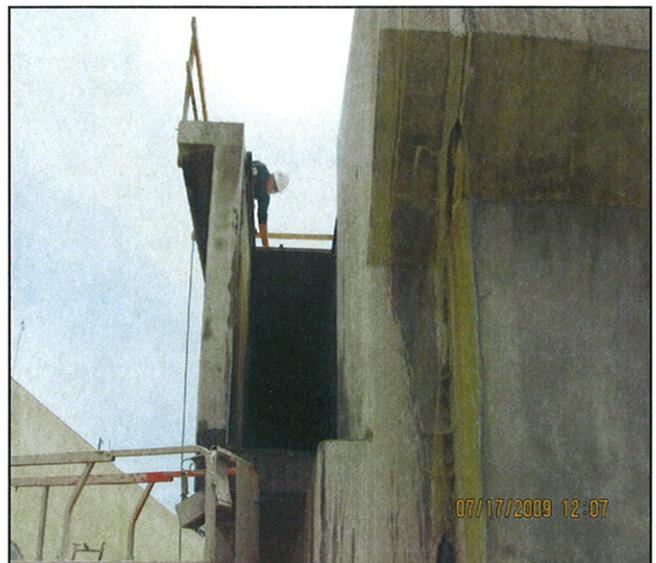
Bushing & Drilling Dowel Holes W. Side of Aeration Building



RAS Pump Foundation formed for pump pads



Pipe support foundations for pump pads



Demolition of Aeration Channel for MLR Tie In