

Monthly Report Summary



Date: January 7, 2010
To: Mel Odens, Director of Public Works
Copy: Colleen Thompson, WWTF Superintendent
Holly Wilson, Assistant City Engineer
Michael Schmit, City Administrator
Steve Okins, Finance Director
File
From: **Rhonda Rae, Program Manager**
Prepared by: Rhonda Rae, Program Manager
Re: **December 2009 Monthly Report Summary**

These notes summarize the activities related to the Wastewater Treatment Plant Relocation and Conveyance System Improvements for the month of December 2009.

Summary of Program Management Activities

Prepared December 2009 Monthly Program Report and distributed to City Staff.

Met with City Staff regarding funding and finance issues. Worked with the City to submit Pay Request 2 to the Public Facilities Authority (PFA) for the new 30-year Clean Water Revolving Fund Loan and Wastewater Improvement Fund and Pay Request No. 7 for the Total Maximum Daily Load (TMDL) grant. The City has now received the full amount of TMDL eligible grant funds. Continued to work with City staff on reconciling PFA payment with city pay request.

Submitted informational sheets to PFA to use for the 2010 legislative session for Wastewater Infrastructure Funding.

Worked with the City to submit Pay Request 3 to the Public Facilities Authority for American Recovery and Reinvestment Act (ARRA) and Clean Water Revolving Funds.

Continued to work with Don Roecker, PFA, MPCA, EPA, City staff and Donohue staff for funding opportunities.

Continued to work on with City staff on edits and updates to Chapter 16, Division 2 Connections of the Willmar Municipal Code.

Continued to work with City staff and JOTS staff on edits to the Industrial Wastewater Discharge Permit for Jennie-O Turkey Store.

Continued to work with City Planning Staff to provide information on the impact of construction on Wallace Janssen's property. The court has not set a new trial date; continue to try mediation at this point.

The court has not set a new trial date for the Kvam Property. Kennedy and Graven will try and set up mediation.

Continue to provide information on Groothuis property. Commissioners hearing scheduled for March 3, 2010.

Submitted Owner Unanticipated Allowance Modification No 7, Natural Gas Service Allowance Modification No. 1, Amendment to City Budget for PFA 30-year Loan and Donohue Construction Engineering Service Agreement Revision to City Council for Approval.

File management activities continued.

Construction Related Engineering

Conveyance System

Provided construction management on all conveyance projects and observation at the site for Projects 0813-D3, 0814-D4 and 0815-D5.

The 0813-D3 Project has installed approximately 14,800 linear feet of 48-inch and 491 linear feet of 36-inch Interceptor Piping and 28 Manholes. S. R. Weidema has completed all piping. The boring and installation of Interceptor Piping at County Road 15 has also been completed. Numerous boulder obstacles were encountered during the bore but were removed by Midwest Boring Company. The majority of surface restoration work has been completed on 28th Avenue and 30th Avenue. The final restoration work will continue after the Spring thaw, including final asphalt lift on 28th Avenue SW.

On Project 0814-D4, S. R. Weidema has installed all 54-inch and 48-inch Interceptor piping (approximately 14,000 feet) and Manholes (28), Forcemain piping (approximately 14,000 feet) and Manholes (14) from the interface of Contract C to the interface of Project D3. The installation of the Outfall piping (approximately 3,200 linear feet) has also been completed from the interface of Contract C to Hawk Creek. Finalized all infiltration testing of Interceptor piping and pressure testing of the Forcemain

On the 0815-D5 Project, Voss Plumbing has been actively working to install the remaining fused 16-inch forcemain pipe. They have successfully installed the fused 16-inch forcemain pipe from the electrical power substation along 30th Street to the property located adjacent to the BNSF Railroad Alignment along County Road 15. This month Voss has installed approximately 3,320 feet of 16-inch Forcemain pipe, three cleanout Manhole Structures, and one air release Manhole Structure. The cold weather has been very welcoming due to the frozen ground it creates. This is critical to support the weight of the heavy machinery used for the installation of the proposed pipe through wetland areas after a very wet fall. Productivity continues as weather permits and the anticipated completion of piping operations is mid- to late-January.

On 0816-D6 Project, Di-Mar Construction is on task with the proposed schedule for the construction of the two pump stations. Both pump stations have completed laying the rock-faced block of the structure, setting precast roof segments, finishing concrete troughs in the wetwells, and prepping the building and site for work to continue through the winter months. Anticipated tasks to be accomplished at both pump stations for the upcoming month will primarily consist of interior work. This work will include grinding, sanding, and cosmetic repairs to the cast-in-place concrete walls, process piping installation, and setting of the pumps.

Wastewater Treatment Facility

Provided construction management and observation at the site for Project 0812-C. The Contractor started concrete forming and pouring for all of the 20 structures. Approximate progress is as follows:

- The Administration Building Structure 200 is mostly complete. Electrical, plumbing, HVAC, ceiling tile and the roof system are currently being installed.
- The Generator Building Structure 205 is mostly complete. Generators and switchgear are being installed.
- 100 percent of concrete has been poured for the Septage Receiving Station Structure 210.

- The Headworks Building Structure 220 is mostly complete; continuing the installation of the piping, screw pumps, HVAC, plumbing and electrical.
- 100 percent of Municipal Selector Structure 234 is complete; installed roof system.
- The Industrial Oxidation Ditch Structure 242 is mostly complete; continuing to install stairs and handrailing.
- The Municipal Oxidation Ditch Structure 244 is mostly complete; continuing to install stairs and handrailing.
- The Secondary Building Structure 250 is mostly complete; continuing to install process piping, electrical and HVAC.
- Most of the work is complete at Industrial Clarifier Structure 252. The dome is ready for installation.
- The Municipal Clarifier Structure 254 is mostly complete; continuing to assemble dome, one dome is installed.
- The Final Building Structure 265 is mostly complete; continuing to install HVAC, plumbing, process piping and electrical.
- The Basin Drain Pump Station Structure 268 is mostly complete. The pump has not been installed yet.
- 80 percent of conduit is complete for the Bio-Solids Building #1 Structure 280.
- Work on curbs and davit cranes for Existing Bio-Solids Storage Tank #1 Structure 281 is complete.
- 95 percent of Bio-Solids Storage Tank #2 Structure 282 is complete including underground piping and building; installing piping and pump.
- 95 percent of Biosolids Storage Tank #3 Structure 283 is complete including underground piping and building; installing piping and pump.
- 95 percent of Biosolids Storage Tank #4 Structure 284 is complete including underground piping, and building; installing piping and pump.
- 100 percent of the installation of underground process piping has been completed.
- 100 percent of the installation of underground duct bank has been completed; wiring is being pulled.
- 80 percent of onsite roadways have been completed with gravel base.

Coordinated schedules for startup process and Biosolids Plan.

Continued to provide Technical Shop Drawing reviews.

Program Budget

Wastewater Treatment Facility Relocation Budget Summary December 2009			
<u>REVENUES</u>			
Federal			
American Recovery & Reinvestment Act (ARRA) Grant		\$447,179	
Clean Water Revolving Fund Loan (3.275%)		\$73,311,170	
Clean Water Revolving Fund Loan (2.45%)		\$1,788,716	
EPA State and Tribal Assistance Grant		\$477,900	
State			
Wastewater Infrastructure Fund Loan		\$7,000,000	
Total Maximum Daily Load Grant		\$2,692,935	
Local			
City – WTP Reserves		\$500,812	
TOTAL REVENUES		\$86,218,712	
<u>EXPENDITURES</u>			
Non-construction	Budget	Current Expenses	Remaining Budget
Planning	\$1,140,000	\$1,140,152	(\$152)
Design	\$4,595,788	\$4,543,804	\$51,984
Land & Legal	\$1,130,000	\$1,131,393	(\$1,393)
Construction Engineering	\$5,199,356	\$2,250,935	\$2,948,421
Construction Engineering – D6	<u>\$198,895</u>	<u>\$32,555</u>	<u>\$166,340</u>
Total Non-Construction	\$12,264,039	\$9,098,839	\$3,165,200
Construction			
Existing Treatment Facility Decommission Treatment Facility	\$155,505	\$149,032	\$6,473
New Treatment Facility	\$3,302,865	\$0	\$3,302,865
Collector Systems	\$51,828,000	\$35,236,302	\$16,591,698
Pump Stations 710 & 720	\$16,631,303	\$14,655,046	\$1,976,257
	<u>\$2,037,000</u>	<u>\$462,176</u>	<u>\$1,574,824</u>
Total Construction	\$73,954,673	\$50,502,556	\$23,452,117
Total Project Cost	\$86,218,712	\$59,601,395	\$26,617,317

**Donohue
Budget**

Planning Phase

Contract Limit	\$ 915,940
Remaining Balance	\$ 365

Design Phase

Original Contract Limit	\$ 4,359,172
Contract Amendments	<u>198,219</u>
Current Contract Limit	\$ 4,557,391

Invoices to date	<u>4,541,849</u>
Remaining Balance	\$ 15,542

Construction Phase

Original Contract Limit	\$ 5,398,251
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Program Management/CRS

Total Contract	\$ 5,199,356
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Monthly Beginning Balance	\$ 2,948,421
December Invoice	<u>159,395</u>
Remaining Balance	\$ 2,789,026

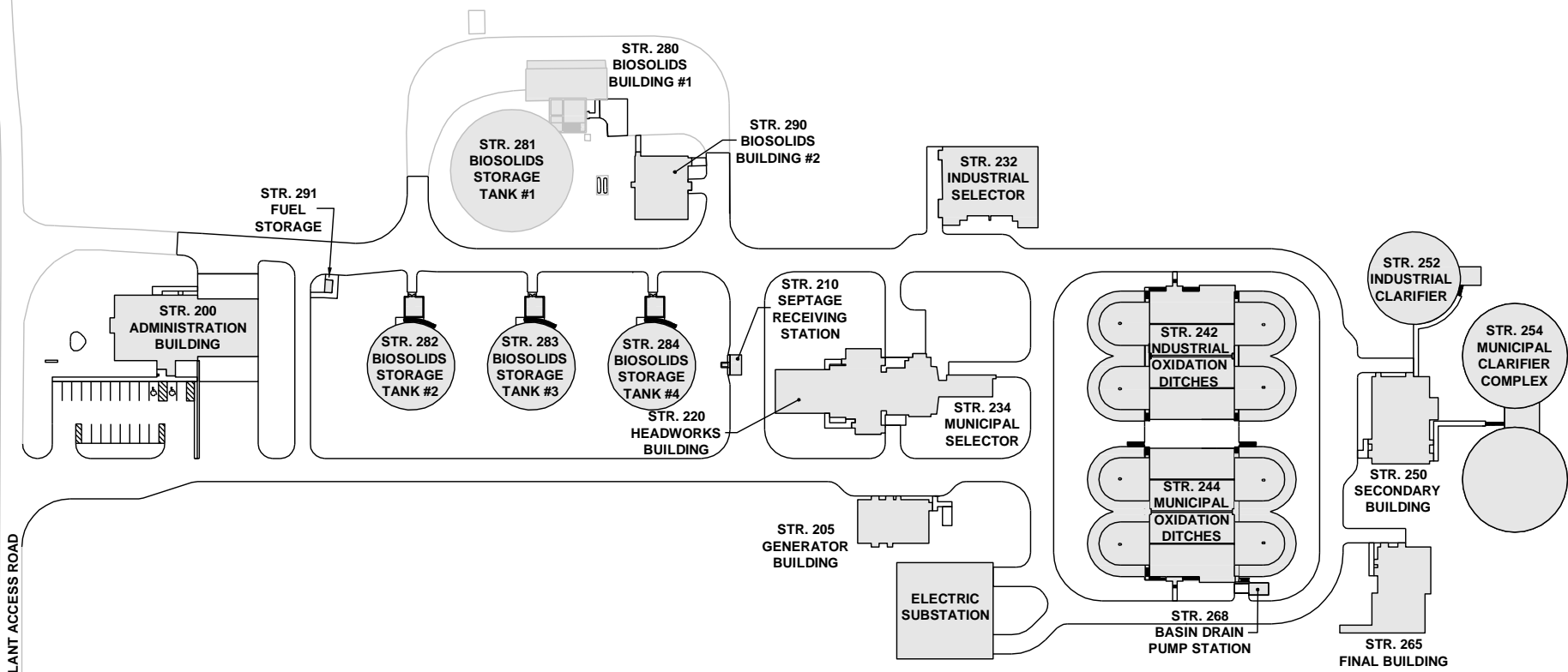
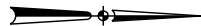
Pump Station Program Management/CRS

Total Contract	\$ 198,895
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Monthly Beginning Balance	\$ 166,340
December Invoice	<u>7,111</u>
Remaining Balance	\$ 159,229

Construction Legend
December 2009

Structure No.	Structure Name	Progress
200	Administration Building	Continuing to install plumbing, electrical and HVAC; installing roof system; painting interior, installing ceilings.
205	Generator Building	Installing generators and switchgear.
210	Septage Receiving Station	No activity in December.
220	Headworks Building	Continuing to install process piping, HVAC, electrical and screw pumps.
232	Industrial Selector	Installing process piping and electrical.
234	Municipal Selector	Continuing to install process piping.
242	Industrial Oxidation Ditch	Continuing to install stairs and handrail system.
244	Municipal Oxidation Ditch	Continuing to install stairs and handrail system.
250	Secondary Building	Continuing to install process piping, pumps and electrical.
252	Industrial Clarifier	Assembling dome.
254	Municipal Clarifier (1 & 2)	Assembling dome for clarifier; installed first dome.
265	Final Building	Installing plumbing, process piping and electrical.
268	Basin Drain Pump Station	No activity in December.
280	Biosolids Building No. 1	Installing door.
281	Biosolids Storage Tank No. 1	Installed piping to tank.
282	Biosolids Storage Tank No. 2	Continuing to install piping and pump.
283	Biosolids Storage Tank No. 3	Continuing to install piping and pump.
284	Biosolids Storage Tank No. 4	Continuing to install piping and pump.
290	Biosolids Building No. 2	Continuing to install equipment, pumps, piping and electrical.
291	Fuel Storage	No activity in December.
---	Site	Continuing to pull underground wiring; Willmar Municipal Utilities is terminating wiring.

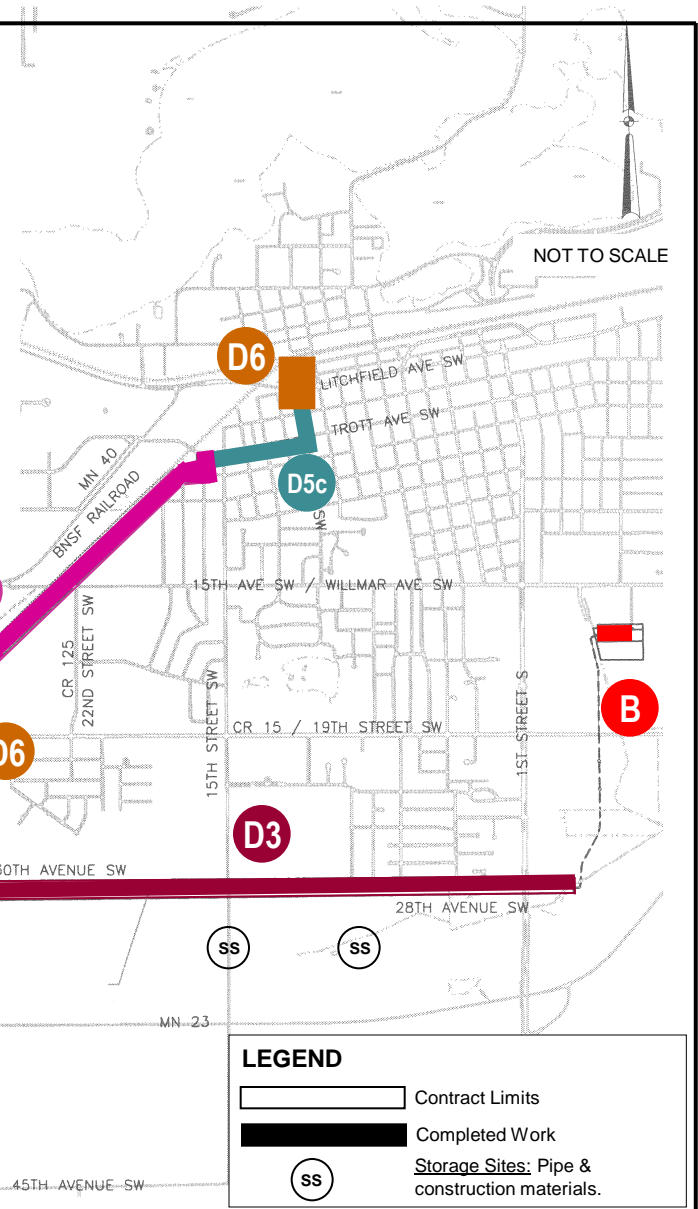


WILLMAR TRAP CLUB

PLANT ACCESS ROAD

SEE CONSTRUCTION STATUS TABLE

- Project 0813-D3** 14,800 lineal feet of 48-inch Interceptor and 491 lineal feet of 36-inch Interceptor has been installed along with 28 manholes. Watermain relocation is complete on 28th Avenue SW. All paving and concrete work is complete for the season. The final wearing course will be laid in the Spring of 2010. 28th Avenue SE and 28th Avenue SW are open to local traffic. All borings are complete.
- Project 0814-D4** 14,300 lineal feet of Interceptor installed along with 21 manholes. Outfall and headwall installation complete. 14,280 lineal feet of Forcemain installed along with 14 manholes. Working on restoration on west side of CR55 (finish grading/black dirt spread).
- Project 0815-D5** 1,100 lineal feet of 24-inch Gravity Sewer installed along with 4 manholes. 5,600 lineal feet of 8-inch Forcemain installed along with 7 manholes (clean-out/air release vaults). 3,300 lineal feet of 16-inch Forcemain installed along with 4 manholes (clean-out/air release vaults). All road restoration has been completed.
- Project 0901-D5c** **Project Complete** - Installation of the 8-inch Forcemain (2,591') was completed and tested. Two air relief manholes and one cleanout manhole were installed with the street reconstruction project.



**City of Willmar, Minnesota
Wastewater Program
MONTHLY PROGRESSION MAP
December 2009**

