

## Monthly Report Summary



**Date:** June 9, 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:** **May 2010 Monthly Report Summary**

These notes summarize the activities related to the Wastewater Treatment Plant Relocation and Conveyance System Improvements for the month of May 2010.

### **Summary of Activities**      **Program Management**

Prepared May 2010 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 7 to the Public Facilities Authority (PFA) for the new 30-year Clean Water Revolving Fund Loan and Wastewater Improvement Fund.

Worked with the City to submit Pay Request 8 to the Public Facilities Authority for American Recovery and Reinvestment Act (ARRA) and Clean Water Revolving Funds.

Continued to work with the Public Facilities Authority (PFA), Minnesota Pollution Control Agency (MPCA), City Staff and Donohue Staff for funding opportunities from Water Resources Development Act (WRDA) and Environmental Protection Agency State and Tribal Assistance Grant (EPA STAG) 2010 for \$300,000.

Continue to work with legal counsel and City staff to provide information on the property acquisition.

Continue to work on modifications to the JOTS permits.

Continue to work with the City to determine what they require for asset management information.

Providing information for the Wastewater Program that includes a list of major process-related equipment, the replacement cost for the equipment, anticipated useful life for the equipment, structure-by-structure capital costs, site improvement capital costs, gravity collection piping capital costs and Forcemain piping capital costs.

Continue to work with PCA and PFA to secure funds for the stormwater improvements at the existing wastewater treatment facility.

Submitted final cost sheets for Projects D1 and D2.

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.

Projects 0813-D3 and 0814-D4 are substantially complete. Testing, restoration and the final asphalt lift on 28<sup>th</sup> Avenue SW will be completed in June. The final connection to Project 0814-D4 16-inch Forcemain has been made.

The 0816-D6 Project continues to be on task with the proposed schedule for the construction of the two pump stations. The most recent items of progress completed in the last month include:

- Installed concrete stoops at both pump stations
- Subgrade preparation and compaction verification for entrance and service area at Pump Station 720
- Established and installed chainlink fence posts and gate posts at both pump stations
- Installation of gas service to Pump Station 720
- Installed all curb and gutter and concrete aprons at both pump stations
- Pumps were delivered and verified
- Generators and controls installed at both pump stations
- Wiring of instrumentation panels in electrical rooms at both pump stations
- Class 5 base material installed and compacted to grade at Pump Station 720
- Transformer and electrical power supply completed at both pump stations
- Both pump stations completed underground utility connections of water services, sewer mains, and force mains

Meetings continue between the contractors and property owners regarding the final restoration of properties.

### **Wastewater Treatment Facility**

Provided construction management and observation at the site for Project 0812-C. Approximate progress is as follows:

- The Administration Building Structure 200 is mostly complete.
- The Generator Building Structure 205 is mostly complete. Generators and switchgear are being wired. The medium voltage switchgear is complete and energized.
- The Septage Receiving Station Structure 210 is basically complete.
- The Headworks Building Structure 220 is mostly complete; painting and coating; screw pump channels were grouted and RWW pumps installed.
- The Municipal Selector Structure 234 is mostly complete.
- The Industrial Oxidation Ditch Structure 242 is mostly complete; continuing to install stairs and handrailing; aerator equipment is installed.

- The Municipal Oxidation Ditch Structure 244 is mostly complete; continuing to install stairs and handrailing; aerator equipment is installed.
- The Secondary Building Structure 250 is mostly complete; continuing to install electrical, HVAC, paint and coatings.
- Most of the work is complete at Industrial Clarifier Structure 252.
- The Municipal Clarifier Structure 254 is mostly complete.
- 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 and piping have not been installed.
- Bio-Solids Building #1 Structure 280 is being worked on.
- Existing Bio-Solids Storage Tank #1 Structure 281 is mostly complete.
- Bio-Solids Storage Tank #2 Structure 282 is mostly complete.
- Bio-Solids Storage Tank #3 Structure 283 is mostly complete.
- Bio-Solids Storage Tank #4 Structure 284 is mostly complete.
- 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.
- 95 percent of onsite roadways have been completed with gravel base. Black dirt is being installed.
- Trees and shrubbery are being planted, and grass has been seeded in areas.

Coordinated schedules for startup process and Biosolids Plan.

Continued to provide Technical Shop Drawing reviews.

Continued to negotiate with contractor and the City on allowance modification items.

**Program Budget**

<b>Wastewater Treatment Facility Relocation Budget Summary May 2010</b>			
<b><u>REVENUES</u></b>	<b>Award Amount</b>	<b>Current Expenses</b>	<b>Balance to Draw</b>
<b>Federal</b>			
* American Recovery & Reinvestment Act (ARRA) Grant	\$447,179	\$447,179	\$0
Clean Water Revolving Fund Loan (3.275%)	\$42,001,362	\$42,001,362	\$0
* Clean Water Revolving Fund Loan (2.45%)	\$1,788,716	\$805,923	\$982,793
Clean Water Revolving Fund Loan (3.44%)	\$36,238,638	\$16,414,172	\$19,824,466
EPA State and Tribal Assistance Grant (STAG)	\$477,900	\$477,900	\$0
<b>State</b>			
Wastewater Infrastructure Fund Loan	\$7,000,000	\$6,516,936	\$483,064
* Total Maximum Daily Load Grant	\$2,692,935	\$2,692,935	\$0
<b>Local</b>			
City – WTP Reserves	<u>\$500,812</u>	<u>\$97,691</u>	<u>\$403,121</u>
<b>Total Revenues</b>	\$91,147,542	\$69,454,098	\$21,693,444
* Loan 3 Reduction (Revenue Received after Loan 1 Agreement)	<u>\$4,928,830</u>		
<b>Total Project Cost</b>	\$86,218,712		
<b><u>EXPENDITURES</u></b>	<b>Budget</b>	<b>Current Expenses</b>	<b>Remaining Budget</b>
<b>Non-Construction</b>			
Planning	\$1,140,000	\$1,138,305	\$1,695
Design	\$4,595,788	\$4,547,593	\$48,195
Land and Legal	\$2,011,687	\$1,202,674	\$809,013
Construction Engineering	\$5,199,356	\$3,169,403	\$2,029,953
Construction Engineering – D6	<u>\$198,895</u>	<u>\$87,322</u>	<u>\$111,573</u>
<b>Total Non-Construction</b>	\$13,145,726	\$10,145,297	\$3,000,429
<b>Construction</b>			
Existing Treatment Facility	\$155,505	\$149,032	\$6,473
Decommission Treatment Facility	\$2,897,178	\$9,000	\$2,888,178
New Treatment Facility	\$51,828,000	\$43,060,973	\$8,767,027
Collector Systems	\$16,155,303	\$14,924,015	\$1,231,288
Pump Stations 710 & 720	<u>\$2,037,000</u>	<u>\$1,165,781</u>	<u>\$871,219</u>
<b>Total Construction</b>	\$73,072,986	\$59,308,801	\$13,764,185
<b>Total Project Cost</b>	\$86,218,712	\$69,454,098	\$16,764,614

**Donohue  
Budget**

**Planning Phase**

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

**Design Phase**

Original Contract Limit	\$ 4,359,172
Contract Amendments	<u>285,495</u>
Current Contract Limit	\$ 4,644,667
Invoices to date	<u>4,555,890</u>
Remaining Balance	\$ 88,777

**Construction Phase**

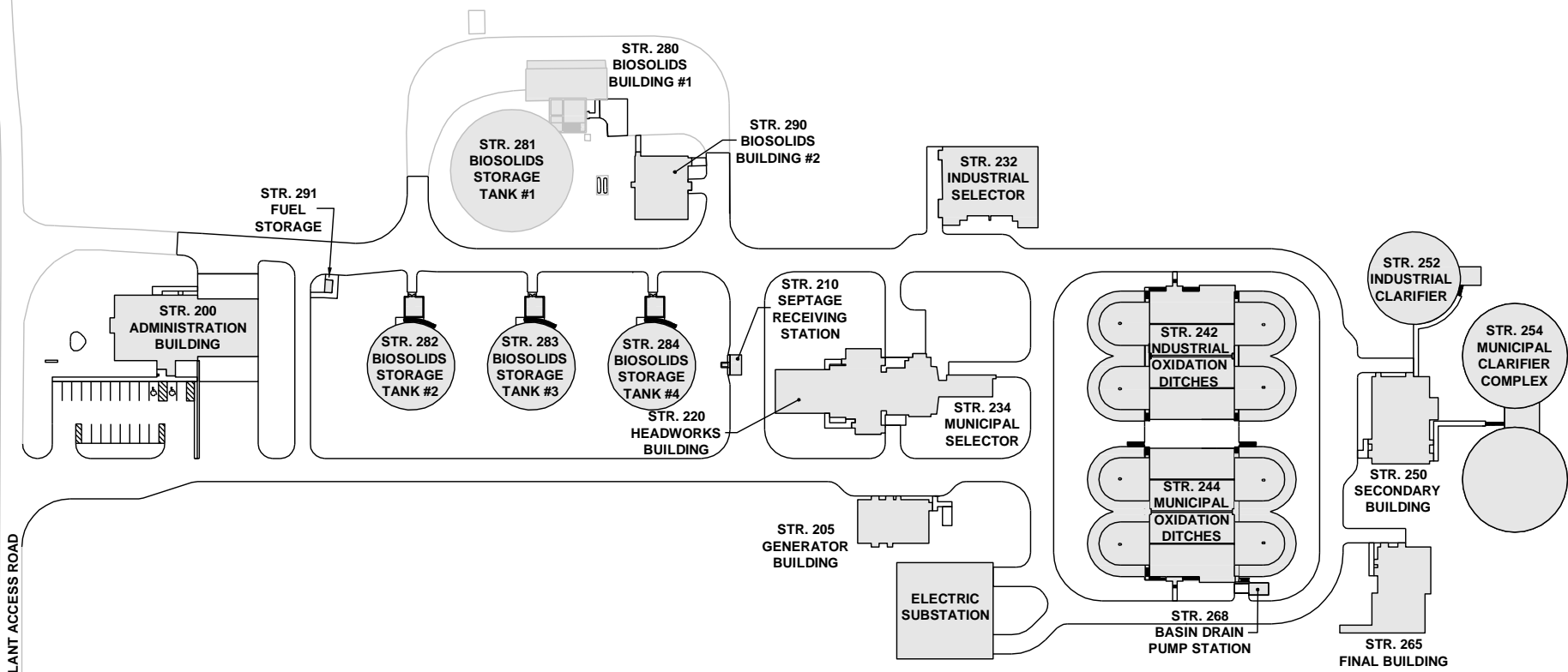
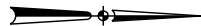
Original Contract Limit	\$ 5,398,251
<i>Program Management/CRS</i>	
Total Contract	\$ 5,199,356
Monthly Beginning Balance	\$ 2,029,952
May Invoice	<u>177,916</u>
Remaining Balance	\$ 1,852,036
<i>Pump Station Program Management/CRS</i>	
Total Contract	\$ 198,895
Monthly Beginning Balance	\$ 111,573
May Invoice	<u>19,273</u>
Remaining Balance	\$ 92,300

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## Construction Legend

May 2010

Structure No.	Structure Name	Progress
200	Administration Building	Continuing to install plumbing, electrical and HVAC; installing security system.
205	Generator Building	No activity in May.
210	Septage Receiving Station	No activity in May.
220	Headworks Building	Building is mostly complete; painting and coating; screw pump channels grouted; RWW pumps installed.
232	Industrial Selector	Continuing to install chemical piping and electrical.
234	Municipal Selector	Building is mostly complete.
242	Industrial Oxidation Ditch	Water tested aerators and conducted leak test.
244	Municipal Oxidation Ditch	Water tested aerators and conducted leak test.
250	Secondary Building	Building is mostly complete.
252	Industrial Clarifier	Conducting leak test.
254	Municipal Clarifier (1 & 2)	Conducting leak test.
265	Final Building	Continuing to install plumbing, HVAC, process piping and electrical.
268	Basin Drain Pump Station	No activity in May.
280	Biosolids Building No. 1	Installing electrical.
281	Biosolids Storage Tank No. 1	No activity in May.
282	Biosolids Storage Tank No. 2	Continued installation of tank and stairs.
283	Biosolids Storage Tank No. 3	Continued installation of tank and stairs.
284	Biosolids Storage Tank No. 4	Continued installation of tank and stairs.
290	Biosolids Building No. 2	Continuing to install equipment, HVAC, pumps, piping and electrical.
291	Fuel Storage	No activity in May.
---	Site	Site grading and road construction activities; seeding, tree and shrub installation.



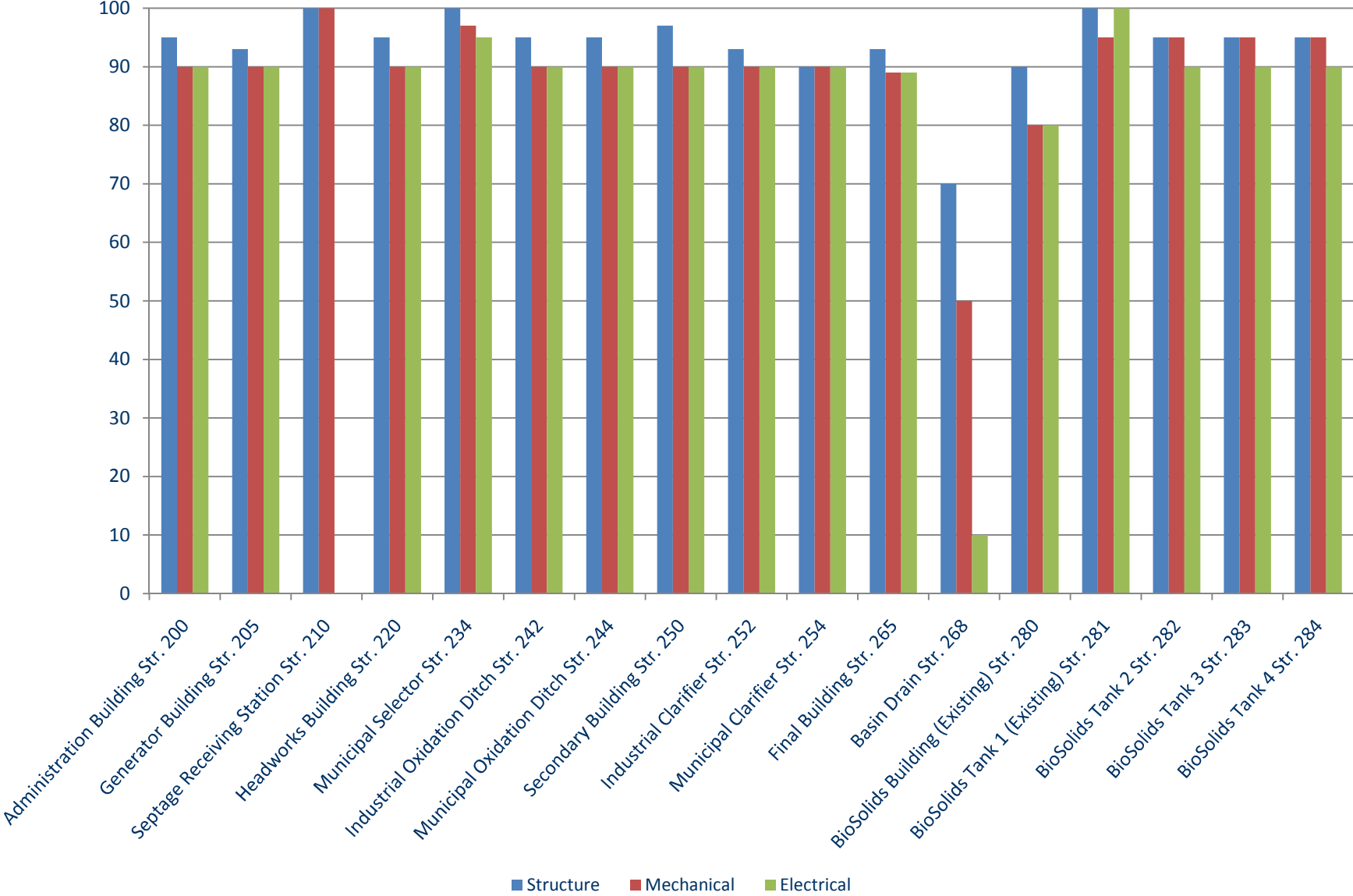
PLANT ACCESS ROAD

WILLMAR TRAP CLUB

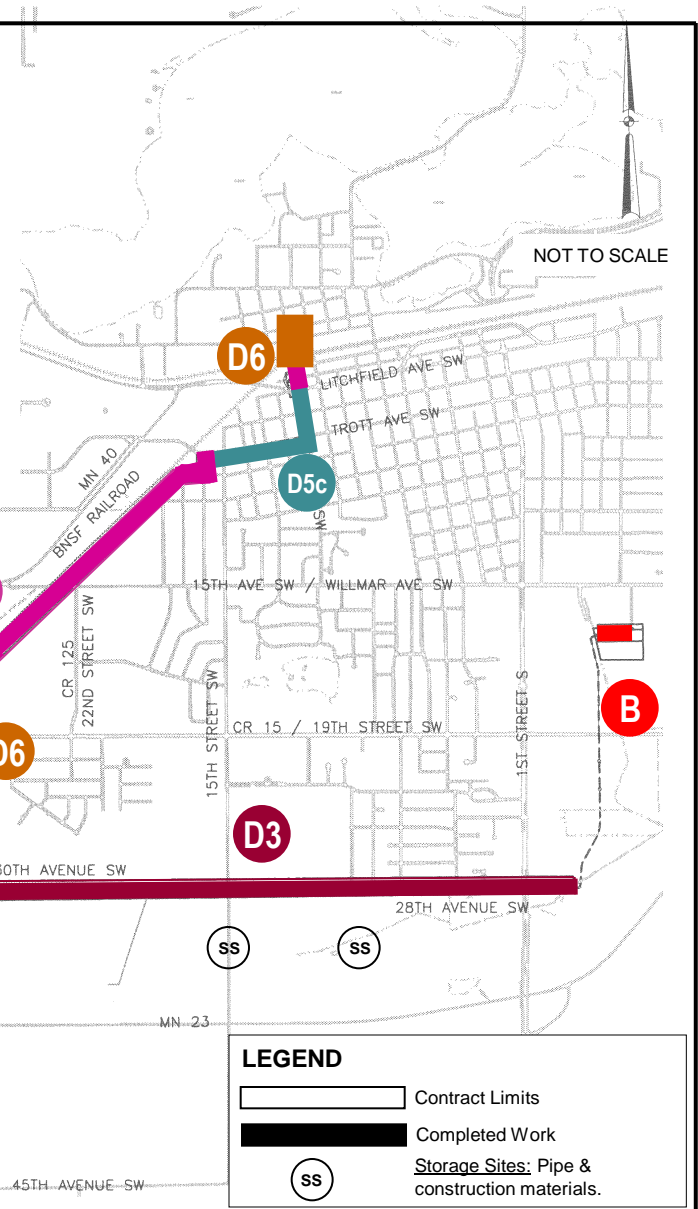
SEE CONSTRUCTION STATUS TABLE

# Wastewater Treatment Plant - Percent Complete

May 2010



- Project 0813-D3** 14,800 lineal feet of 48-inch Interceptor and 491 lineal feet of 36-inch Interceptor has been installed along with 27 manholes. Watermain relocation is complete on 28<sup>th</sup> Avenue SW. All paving and concrete work is complete for the season. The final wearing course will be laid in the Spring of 2010. 28<sup>th</sup> Avenue SE and 28<sup>th</sup> 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 15 manholes.
- Project 0815-D5** 1,116 lineal feet of 24-inch Gravity Sewer installed along with 4 manholes. 5,654 lineal feet of 8-inch Forcemain installed along with 7 manholes (clean-out/air release vaults). 5,238 lineal feet of 16-inch Forcemain installed along with 6 manholes (clean-out/air release vaults). All road restoration has been completed. All carrier pipe has been installed.
- 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  
May 2010**

