WHITEHEAD CREEK
STORMWATER SEPARATION PROJECT

PUBLIC MEETING

Thursday, July 21, 2011
5:30-7 P.M.
Fairview Golf Course Club House
St. Joseph, Missouri

MEETING ATTENDEES

Project Team in attendance
- Marilyn Labuck, Twin Peaks
- Lee Sommers, City of St. Joseph
- Roger Sparks, City of St. Joseph
- Judy Spencer, City of St. Joseph
- Bruce Woody, City of St. Joseph
- David Silverstein, Burns & McDonnell
- Steve Yonker, Burns & McDonnell
- Leigh Barnhart, Shockey Consulting Services
- Barb Sadler, Shockey Consulting Services

Others in attendance
- Rick Bryan, Citizen
- Scott Gann, Citizen
- Reba Hebert, Citizen
- Amy Kretzer, Citizen
- Gary F. Kretzer, Sr., Citizen
- Barbara LaBass, City Council
- Pat Jones, City Council
- Mark Meyer
- Mike Sobetski, Lifeline Foods
- Clinton Thomas, St. Joseph News-Press
I  WELCOME & INTRODUCTIONS

Leigh Barnhart, Shockey Consulting Services introduced Steve Yonker, Project Manager; and David Silverstein, Asst. Project Manager with Burns & McDonnell; Interim St. Joseph City Manager, Bruce Woody; City Engineer, Roger Sparks; and Barbara LaBass, City Councilmember.

II  PURPOSE OF MEETING

Bruce Woody, Interim City Manager, City of St. Joseph, explained that the goal for water protection is to meet regulatory requirements, protect water quality, and protect the Missouri River as a recreational resource. Mr. Woody introduced City Councilmember Pat Jones. Additional goals are to accommodate development and redevelopment and integrate community benefits.

The Combined Sewer System in the westside of St. Joseph is designed to convey both stormwater and wastewater in the same pipe. During rainfall, pipes may get too full and overflow into the Missouri River. Mr. Woody explained that problems with aging infrastructure, sewers undersized for peak flows when it rains, and water quality impacts receiving streams.

Why is this a problem? Mr. Woody explained that the City can’t effectively convey and treat flows. He further explained that St. Joseph is required to control sewer overflows as regulated by the Clean Water Act, Missouri Department of Natural Resources (MDNR) and the Environmental Protection Agency (EPA). Approximately 770 communities have combined sewer issues.

During the next 20 years, the City of St. Joseph has nine projects to address the issue. The purpose of this meeting is to talk about the Whitehead Creek Stormwater Separation Project.

III  REVIEW OF WHITEHEAD CREEK SEPARATION PROJECT PRELIMINARY DESIGN

David Silverstein, Burns & McDonnell, described the Whitehead Basin as covering 5,220 acres and containing three sub-basins (north, middle and south). The middle and south basins are part of the project. The new pipe is intended to remove creek flows from the...
combined sewer system. The new pipe will increase wet weather flow capture to 60 percent, and reduce or eliminate dry weather overflows when the Missouri River is high.

The new pipe will be a little over a mile in length. Its capacity will be 300 cubic feet per second. Mr. Silverstein added that the project will include an inlet and outlet striations, tunnel and open-cut. Mr. Silverstein showed a map of the Whitehead Creek Stormwater Separation Project. Part of the project is tunneled (2,200' approx.).

Figure One: Selected Whitehead Creek Stormwater Separation Route

Open cut depths will be 20-30' below ground and a wide area is needed for spoil, equipment and materials. It will require extensive shoring and dewatering. The inlet structure will divert low flows to the new pipe and pass high flows to the existing 16' diameter pipe. It cannot impact flood levels or the floodway. Mr. Silverstein showed the current inlet structure where the new pipe will come into the creek. It is a fairly complicated structure.

The outlet structure will return flow to Whitehead Creek. The outlet structure maintains sewage flow to the wastewater treatment plant when the Missouri River is above flood stage.
The cost of the project will be a little less than $20 million ($19.86 million), $1-$2 million less than the earlier identified project route.

IV WHITEHEAD CREEK STORMWATER SEPARATION PROJECT SCHEDULE

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Final Design Completed</td>
<td>February 2012</td>
</tr>
<tr>
<td>Construction Bids Received</td>
<td>Late 2012</td>
</tr>
<tr>
<td>Construction</td>
<td>Late 2012 to Late 2014</td>
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V PROPERTY ISSUES

Roger Sparks, City Engineer, City of St. Joseph, explained that property acquisition is necessary for this project. There are different types of acquisitions: temporary construction easements, permanent storm drainage easements, and full property acquisitions. Projects of this type cannot be built without property acquisitions. It is nearly impossible to find alignment through developed areas where this could be built. Property acquisition is regulated by state and federal codes that allow the City to acquire the property but that same law also provides for the protection of the persons whose property is being acquired. There is a detailed process to follow to which the City will abide.

VI OPEN DISCUSSION

The meeting participants asked questions and provided comments about the project:

Question: How does the EPA direct this during flooding on the Missouri River? They are creating a situation where we are putting more pollutants into the creek than we started with. Are they testing the water in the Missouri River?

Answer: Many of the flows are hard to control. During flooding, Kansas City, St. Louis and Omaha have the same issues of sewage being directed to the river. We imagine some testing is being done, but do not know.

Question: How long are the pipe sections?

Answer: 8-12'
**Question:** How many sections?

**Answer:** Specs will allow so many feet in front of the excavation. The contractor can only have 200-250’ open at a time. Using a dewatering and a trench box, they dig and backfill immediately.

**Question:** What about street closings?

**Answer:** Seymour Street is expected to be closed for a few months as there is nowhere else to put street bypass while the tunnel is being excavated.

**Question:** What about the trains switching for Lifeline?

**Answer:** The City will be working with Lifeline to help keep the tracks open as much as possible. Mike Sobetski of Lifeline Foods showed where the trains typically back up, and he indicated that they would work to avoid any delays.

**Question:** What impact does the river flooding have on the sampling our permits require?

**Answer:** We continue to sample per our permits at the end of our e process. We are meeting all of our permit regulations.

**Question:** How are we financing this project?

**Answer:** Voters approved bond funding through a state revolving fund. The City of St. Joseph will be applying for the state funds in November 2011.

**Comment:** Encourage the staff to listen to public's opinions on prioritizing projects.

**Question:** What about easements, how long do the temporary easements last?

**Answer:** We would like to keep temporary easements for a year after the construction is complete in case there is an issue that requires us to go back and fix something.

**Question:** What about state-funded low interest loans? What is the time of sequence of when you apply? Is it first come, first served?

**Answer:** All applications are due at same time. Not first come, first served. They are prioritized based on a formula which includes population, type of project, steps already completed, etc. Community support plays a large part in the priorities.

**VII ADJOURN**

The meeting attendees were invited to view the map display stations.