May 9, 2014

To: WRA Technical Committee Members:

  Jim Utter, Altoona             Mark Mueller, Ankeny
  Pat Collison, Bondurant       Bart Weller, Clive
  Albert Aguilar, Des Moines    Royce Hammitt, WRF
  David Cubit, Johnston         Gary Patterson, Pleasant Hill
  Bret Vandelune, Polk County   David McKay, Urbandale
  Paul Drey, UWHSD              Jason VanAusdall, UWHSD
  Tim Hoskins, City of Norwalk  Duane Wittstock, West Des Moines
  John Gibson, City of Waukee   Mike Shulte, Polk City
  Anthony Bellizzi, Cumming

Re: WRA Technical Committee Meeting (May 13, 2014)

A meeting of the WRA Technical Committee has been scheduled for Tuesday, May 13, 2014 at 1:30 p.m. The meeting will be held in the Administration Building Conference Room at the Des Moines Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa. A meeting notice, agenda, and exhibits for the meeting and minutes from the April 8, 2014 meeting are attached. The notice, minutes, exhibits, and agenda will be sent via e-mail.

If you have questions please contact me at 223-6231 or Scott Hutchens at 323-8031.

Very truly yours,

Bart Weller
Chairperson
WRA Technical Committee

BW: STH

Attachments
NOTICE OF MEETING

DES MOINES WASTEWATER RECLAMATION AUTHORITY
TECHNICAL COMMITTEE

Des Moines Wastewater Reclamation Facility
3000 Vandalia Road
Des Moines, Iowa

May 13, 2014
1:30 p.m.

AGENDA

ITEM 1: Call to Order
ITEM 2: Roll Call
ITEM 3: Minutes for the April 8, 2014 meeting - Approval
ITEM 4: WRA Southern Tier Interceptor, Phase 10, Segment 17 - Bid Review & Recommendation
ITEM 5: Developer Initiated Proposal to Purchase WRA Property at SE 6th Street and Shaw Street – Information
ITEM 6: WRA Communities Approval of Second Amended and Restated Agreement for the Des Moines Metropolitan Wastewater Reclamation Authority Update – Information
ITEM 7: 2012 WRA Facility Plan Projects Update – Information
ITEM 8: SRF Sponsored Projects Funding Award – Information
ITEM 9: Specification Subcommittee Members – Information/Discussion
ITEM 10: Industrial Waste Ordinance – Information
ITEM 11: Other Business
ITEM 12: Adjourn
ITEM 1: Call to Order

Bart Weller, Chair Person, called the April 8, 2014, Technical Committee meeting to order at 1:38 p.m.

ITEM 2: Roll Call

Technical Committee Members in Attendance
Karen Oppelt, Altoona
Mark Mueller, Ankeny
Bart Weller, Clive
Albert Aguilar, Des Moines
Shane Kinsey, Johnston
Gary Patterson, Pleasant Hill
Bret Vandelune, Polk County
Jason VanAusdall, UWHSD
John Gibson, Waukee
Duane Wittstock, West Des Moines

Others in Attendance
Scott Hutchens, Operating Contractor
James Beck, Operating Contractor
Nick Carter, Operating Contractor
Tina Grove, Operating Contractor
Glenna Frank, Operating Contractor
Paul Ebert, Operating Contractor
Jason Merk, Operating Contractor
Roxane Vaughan, Operating Contractor
Brian Bakke, HDR
Pat Ball, Stanley Construction
Bob Veenstra, Veenstra & Kimm, Inc.
Carl Elshire, MSA
ITEM 3: Minutes for the March 11, 2014 meeting - Approval

Gary Patterson made a motion to approve the minutes of the March 11, 2014, Technical Committee meeting. John Gibson seconded the motion. The motion carried unanimously.

ITEM 4: WRA Southern Tier Interceptor, Phase 10, Segment 17 Project Recommendation and Design Flow Approval – Approval

Scott Hutchens told the group that the WRA received word that this project was exempt from the “Use of American Iron and Steel” requirement under the premise that the planning and design loan for the project was finalized before the new requirement was enacted in January of 2014. The engineer’s estimate for this project is $2,248,970.00; bids will be taken on Tuesday, May 6th and presented to the Technical Committee at its May 13, 2014 meeting for review and recommendation to the WRA Board for consideration at its May 20, 2014 meeting.

Jason VanAusdall made a motion to recommend the WRA Southern Tier Interceptor, Phase 10, Segment 17 Project Recommendation and Design Flow to the board for approval. Albert Aguilar seconded the motion. The motion carried unanimously.

ITEM 5: 2012 WRA Facility Plan – Approval

Scott Hutchens told the group that the improvements to be constructed under the new agreement have been submitted to the IDNR as part of their review of the WRA Facility Plan Update - 2012. The IDNR has provided a letter dated February 26, 2014 indicating general agreement with the order and prioritization of the projects within the WRA Facility Plan Update -2012. The letter does not constitute an approval of the submitted schedule of the projects or approve the projects within the plan, as each of the projects listed will require independent facility plan approval and construction permitting from the IDNR. Scott also noted that the complete 2012 WRA Facility Plan Update is available for review online.

Albert Aguilar made a motion to recommend the 2012 WRA Facility Plan to the board for approval. Shane Kinsey seconded the motion. The motion carried unanimously.

ITEM 6: WRA Reversionary Interest Table – Approval

Scott Hutchens reported that under the current WRA agreement each year the WRA is to update Exhibit 2 WRA Participating Communities Reversionary Interest and Capacity Allocation table, but in the new proposed WRA agreement it will be updated every three years.

Scott explained that changes to Exhibit 2 occur for two reasons, new conveyance sewers are complete creating additional phases/segments, and the other is when new communities have remitted surcharge payments to member communities creating a redistribution of reversionary interest.
Albert Aguilar made a motion to recommend the WRA Reversionary Interest Table to the board for approval. John Gibson seconded the motion. The motion carried unanimously.

ITEM 7: Supplemental WRA Specifications Update & Revision – Recommendation/Approval

Scott Hutchens told the group that the changes to the WRA Supplemental Specifications will begin with all projects authorized by the WRA Board after April 16, 2014, and will remain in effect until such time as they are further amended by the WRA Board.

Duane Wittstock made a motion to recommend the Supplemental WRA Specifications Update & Revision to the board for approval. Mark Mueller seconded the motion. The motion carried unanimously.

ITEM 8: IDNR Annual Inspection Report – Information

Scott Hutchens reported that the IDNR performed an inspection of the Des Moines Metro WRF and concluded that the WRA appears to be well operated and maintained, and have consistently complied with the conditions of the NPDES Permit.

ITEM 9: Industrial Waste Ordinance – Information

Paul Ebert reported that 52 inspections were conducted last month and that most of these occurred in Des Moines South side and West Des Moines areas.

ITEM 10: Other Business

Scott Hutchens informed the group that the Operating Contractor’s staff wishes to add an additional project that would be eligible for tax increment funding in the amount of $527,681.13 through the Iowa Flood Mitigation Program. The project identified is the WRA Southwest Outfall Bank Stabilization project which is to provide protection from high river water levels to an existing 78-inch sanitary sewer in the area along the north bank of the Raccoon River. The project will also have the benefit of helping prevent further erosion of the river bank by floodwaters and the project is located along the north side of the Raccoon River immediately west of Martin Luther King Jr. Parkway in Des Moines.

ITEM 11: Adjourn

Moved by Bret Vandelune and seconded by Shane Kinsey to adjourn the meeting. The motion carried unanimously.

Meeting adjourned at 2:10 p.m.

tmg
Memorandum

May 13, 2014

To: WRA Technical Committee

From: Scott Hutchens

Re: WRA Southern Tier Interceptor, Phase 10, Segment 17
Bid Review and Recommendation

This improvement includes construction of a force main including all labor, materials and equipment necessary for the excavation and backfill of approximately 10,750 feet of sanitary force main in open cut (16-inch to 30-inch diameter), 1,030 feet of sanitary force main with trenchless installation (16-inch and 30-inch diameter), 580 feet of 8-inch water main, structures, connections to existing force main, and miscellaneous associated work.

This project is the pump station and force main portion of the Mud Creek Interceptor and will convey flows from Bondurant to the existing WRA conveyance system to the west.

The project extends from the 1400 block of East Border Street to the 2100 block of County Line Road, City of Des Moines, Iowa.

The engineer’s estimate for this project is $2,248,970.00; bids were received on Tuesday, May 6th. Six bids were received and are tabulated below.

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Bid Amount</th>
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<tr>
<td>S.M. Hentges &amp; Sons, Inc. (Jordan, MN)</td>
<td>$2,234,941.75</td>
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<tr>
<td>H&amp;W Contracting (Sioux Falls, SD)</td>
<td>$2,333,872.00</td>
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<td>Keller Excavating (Boone, IA)</td>
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<td>Holland Contracting Corporation (Forest City, IA)</td>
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<td>Minger Construction, Inc. (Chanhassen, MN)</td>
<td>$3,197,051.00</td>
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Additional bid information is also shown on the attached bid tab. S.M. Hentges & Sons, Inc. of Jordan, MN is the apparent low bidder with a bid of $2,234,941.75 which is 0.6% below the engineer’s estimate. The Operating Contractor recommends award of the contract to S. M. Hentges & Sons.

This project should be substantially completed by March 1, 2015 allowing for utilization of the new force mains during the 2015 spring season. The project should be fully completed by June 15, 2015.

This project will be funded using the State Revolving Loan Fund (SRF).
### CONTRACTOR'S BID TABULATION

**PROJECT:** WRA Southern Tier Interceptor, Phase 10, Segment 17

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<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>PRICE</th>
<th>AMOUNT</th>
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**TOTAL CONSTRUCTION COST**

$2,248,970.00

**PERCENT OF ENGINEER'S ESTIMATE**

-0.62%

**Apparent Low Bidder**

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<th>Bid Price</th>
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<td>$2,234,941.75</td>
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<td>$2,333,872.00</td>
<td>3.78%</td>
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<td>-</td>
<td>3.86%</td>
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S.M. Hentges & Sons, Inc.
650 Quaker Avenue
Jordan, MN 55352
952-492-5700

H & W Contracting
3416 W. Hovland Drive
Sioux Falls, SD 57107
605-339-8834

Keller Excavating
1133 155th Street
Boone, IA 50036
515-230-9905

**BID SECURITY**

10% of Bid

**BID PRICE**

10% of Bid

10% of Bid
### CONTRACTOR'S BID TABULATION

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**TOTAL CONSTRUCTION COST**

$2,248,970.00

**PERCENT OF ENGINEER'S ESTIMATE**

+5.57%
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<td>$75,000.00</td>
<td>$75,000.00</td>
<td>$151,000.00</td>
<td>$151,000.00</td>
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<tr>
<td>9</td>
<td>Boulders</td>
<td>8 EA</td>
<td>$3,000.00</td>
<td>$24,000.00</td>
<td>$3,000.00</td>
<td>$24,000.00</td>
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<tr>
<td>10</td>
<td>8&quot; Water main</td>
<td>580 LF</td>
<td>$60.00</td>
<td>$34,800.00</td>
<td>$43.20</td>
<td>$25,056.00</td>
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<tr>
<td>11</td>
<td>Hydrant</td>
<td>1 EA</td>
<td>$3,750.00</td>
<td>$3,750.00</td>
<td>$5,680.00</td>
<td>$5,680.00</td>
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<tr>
<td>12</td>
<td>Connections to Existing Water Main</td>
<td>2 EA</td>
<td>$1,250.00</td>
<td>$2,500.00</td>
<td>$430.00</td>
<td>$860.00</td>
<td></td>
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<tr>
<td>13</td>
<td>8&quot; PCC Driveway</td>
<td>100 SY</td>
<td>$65.00</td>
<td>$6,500.00</td>
<td>$90.00</td>
<td>$9,000.00</td>
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<tr>
<td>14</td>
<td>Rip-Rap</td>
<td>150 TONS</td>
<td>$40.00</td>
<td>$6,000.00</td>
<td>$74.00</td>
<td>$11,100.00</td>
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<td>15</td>
<td>Granular Surfacing</td>
<td>20 TONS</td>
<td>$30.00</td>
<td>$600.00</td>
<td>$18.40</td>
<td>$368.00</td>
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<tr>
<td>16</td>
<td>Stabilizing Material</td>
<td>100 TONS</td>
<td>$35.00</td>
<td>$3,500.00</td>
<td>$23.00</td>
<td>$2,300.00</td>
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<tr>
<td>17</td>
<td>Seeding</td>
<td>6 ACRE</td>
<td>$1,500.00</td>
<td>$9,000.00</td>
<td>$800.00</td>
<td>$4,800.00</td>
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<tr>
<td>18</td>
<td>Erosion Control</td>
<td>1 LS</td>
<td>$20,000.00</td>
<td>$20,000.00</td>
<td>$125,000.00</td>
<td>$125,000.00</td>
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<tr>
<td>19</td>
<td>Traffic Control</td>
<td>1 LS</td>
<td>$7,500.00</td>
<td>$7,500.00</td>
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</table>

**TOTAL CONSTRUCTION COST**

$2,246,970.00

**PERCENT OF ENGINEER'S ESTIMATE**

+42.16%
Proposed 16" and 30" Force Mains
Existing WRA Sewers

Southern Tier Pump Station

WRA Southern Tier Interceptor, Phase 10, Segment 17
Memorandum

May 13, 2014

To: WRA Technical Committee

From: Scott Hutchens

Re: Developer Initiated Proposal to Purchase WRA Property at SE 6th Street and Shaw Street – Information

The WRA has been approached by the developer Hansen Real Estate on the possibility of purchasing the property owned by the WRA in the vicinity of SE 6th Street and Shaw Street. The property is shown on the attached map. This property was originally purchased by the WRA for the swirl concentrator project which was a project outlined in the amended WRA Facility Plan prior to the forming of the current WRA in 2004. This property is no longer needed by the WRA and is considered surplus property. Currently no offer has been made by Hansen Real Estate to purchase but the attached letter to the WRA Director indicates they have a serious interest in the property. If an offer is made for the property the Operating Contractor will evaluate this offer and determine if it is in the best interest of the WRA and negotiate a price for the property that is fair and equitable to the WRA.
April 23, 2014

Des Moines Metropolitan Wastewater Reclamation Authority
Attn: Director David Miller
3000 Vandalia Road
Des Moines, Iowa 50317

RE: Request for Developer Initiated Proposal for the property in the vicinity of:
Area north of Des Moines River and west SE 6th Street and south of Shaw Street.

Mr. Miller,

Please accept this request for a developer initiated proposal for the above referenced
City of Des Moines and Des Moines Metro Wastewater Reclamation Authority owned
real estate. The reason for this request is the following:

The proposed development of approximately 90 market-rate dwelling units within five
total structures located as mentioned above.

As per the attached concept, the goal of this development is to create an
environmentally friendly community for people who enjoy the outdoors and
recreational amenities this area has to offer such as gardening in the new, to be
relocated, Community Gardens and John Pat Dorrian Trail. It would feature
sustainable, low impact development practices such as no-mow fescue and other ground
covers for most of the lawn area, bio-retention, and a very low percentage of impervious
surfaces while preserving some of the existing trees. All of which would be consistent
with the riverfront, eagle watching, bike path, and the urban pioneer location renter.

We look forward to working with the City, WRA, and Parks and Recreation
Department to move forward with this development.

Sincerely,

Troy W. Hansen
Hansen Real Estate Services, Inc.
Memorandum

May 13, 2014

To: WRA Technical Committee

From: Scott Hutchens

Re: WRA Communities Approval of Second Amended and Restated Agreement for the Des Moines Metropolitan Wastewater Reclamation Authority Update – Information

WRA Communities in the last month have been acting on the new WRA Agreement at their local Councils and Boards. The following is the approval status of the agreement and schedule for action on the agreement of all the WRA Communities:

Approved Agreement

Des Moines
Pleasant Hill
USSD
Bondurant
Johnston
Altoona
West Des Moines
Ankeny
Waukee
Warren County
Norwalk

Yet to Approve Agreement (date for anticipated approval)

Cumming (May 12 or May 28)
Polk County (May 20)
Greenfield Plaza (May 13)
Polk City (May 12 or May 27)
UWHSD (May 20)
Clive (May 15)

If the approval schedule goes as planned the document should be approved by all WRA Communities on May 28th.
Memorandum

May 13, 2014

To: WRA Technical Committee

From: Scott Hutchens

Re: 2012 WRA Facility Plan Projects Update – Information

The Operating Contractor would like to update the Technical Committee on the 2012 WRA Facility Plan and review the first four projects scheduled to be started once the new WRA Agreement is approved by all WRA Communities.

The 2012 WRA Facility Plan was presented to the Technical Committee and WRA Board and was approved by both bodies in April. The facility plan was then submitted to the IDNR on April 23, 2014 as a draft to allow the IDNR to make comments that could be incorporated into the final report.

The 2012 WRA Facility Plan outlines a series of projects to the WRA conveyance system and treatment facility. There are four projects that are scheduled to be constructed in between 2015 and 2018 and they are listed as follows:

1. Southern Tier Interceptor Phase 10, Segment 1 - 2015
2. Southern Tier Interceptor Phase 10, Segment 6 - 2018
3. WRA Eastside Interceptor – 2018
4. WRF Grit Removal – 2018

Later this year the Operating Contractor will be soliciting consultants for proposals to design these four projects listed. The Technical Committee will be asked for a recommendations to enter in to consultant contracts later this year for these projects.
Memorandum

May 13, 2014

To: WRA Technical Committee

From: Scott Hutchens

Re: SRF Sponsored Projects Funding Award – Information

On March 3, 2014 the Operating Contractor on behalf of the WRA submitted two Water Resource Restoration sponsored projects applications to the IDNR for consideration for funding in the amounts of $110,000 and $900,000 for two stream bank stabilization projects along Four Mile Creek in the vicinity of the WRA Four Mile Interceptor and Four Mile Interceptor Extension. The WRA Director was notified by IDNR that those two projects have been reviewed and recommended for funding. The recommendations must go through public comment and approval by the Iowa Environmental Protection Commission. Once the public comment period is up the projects will be considered by the Iowa Environmental Protection Commission for approval at its meeting on June 17.
Memorandum

May 13, 2014

To:   WRA Technical Committee

From: Scott Hutchens

Re:   Specification Subcommittee Members – Information/Discussion

The Specification Subcommittee is a subcommittee of the Technical Committee that convenes when needed to discuss construction project specifications as they pertain to WRA projects. The Operating contractor would like to confirm the current members of the committee or appoint new members as needed. Currently the following members are on the subcommittee:

Duane Wittstock, West Des Moines
Jim Utter, Altoona
Dave Brick
Bob Veenstra, Veenstra & Kimm
Dave Miller, WRA Director
Scott Hutchens, Operating Contractor
James Beck, Operating Contractor
Nick Carter, Operating Contractor

It appears we need one new member because Mr. Brick is no longer a Technical Committee representative. Also if any other Technical Committee members would like to be a member of this subcommittee please let me know.

The subcommittee may need to convene in the near future to discuss some specification issues prior to the 2012 Facility Plan projects being bid.