

## **NOTICE OF MEETING**

### **DES MOINES WASTEWATER RECLAMATION AUTHORITY TECHNICAL COMMITTEE**

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

March 14, 2023  
1:30 p.m.

### **AGENDA**

- ITEM 1: Call to Order
- ITEM 2: Roll Call
- ITEM 3: Minutes for the February 14, 2023 meeting - Approval
- ITEM 4: WRF Fuel System Improvements – Project Recommendation
- ITEM 5: WRF Clarifier Improvements, Phase 2 – Contract Recommendation
- ITEM 6: Industrial Waste Ordinance – Information
- ITEM 7: Contract Status Update – Information
- ITEM 8: Presentation by HDR Engineering, Inc. Regarding the WRA Treatment Facility Plan Update - 2024
- ITEM 9: Other Business
- ITEM 10: Adjourn

DES MOINES WASTEWATER RECLAMATION AUTHORITY  
TECHNICAL COMMITTEE

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

February 14, 2023  
1:30 p.m.

**DRAFT MINUTES**

ITEM 1: Call to Order

Jeff May, Vice-Committee Chair, called the meeting to order at 1:30 p.m.

ITEM 2: Roll Call

**Members in Attendance**

Dan Scott, Altoona  
Don Clark\*  
Jeff May, Clive  
Rita Connor, Cumming\*  
Eugene Schmitt, Des Moines  
Shane Kinsey, Johnston  
Russ Paul, Pleasant Hill\*  
John Larson, Urbandale  
Rudy Koester, Waukee  
Brian Hemesath, West Des Moines  
Larry Hare, WRF

**Others in Attendance**

Scott Hutchens, Operating Contractor  
Lisa Etnyre, Operating Contractor  
Melissa Schlickbernd, Operating Contractor  
Patrick Brown, Operating Contractor  
Roxane Vaughan, Operating Contractor  
Ben Warren, Operating Contractor  
Brett Paige, Snyder & Associates  
Brian Bakke, HDR

\* Participated in the meeting via telephone due to the fact that it was impractical or impossible to participate in the meeting in person due to proximity to meeting location

ITEM 3: Minutes for the January 10, 2023 meeting - Approval

Brian Hemesath made a motion for recommendation. Rudy Koester seconded that motion. All in favor. The motion carried.

ITEM 4: Chapter 28E Agreement Between the Cities of Waukee, Urbandale, and Clive, the Urbandale Sanitary Sewer District, and the WRA for the Financing, Design, and Construction of the Waukee NE Outfall Sewer and Transfer of the Clive/District Trunk Sewer to the WRA - Recommendation

Scott Hutchens stated that Article VII, Section 4(e) of the WRA Agreement provides that if a Participating Community proposes to design or construct any sanitary sewer improvement, extension, force main, equalization basin, or other similar improvement, and proposes that the improvement be included as a part of the WRA system, that the Participating Community or Communities must follow the provisions of Article VII, Section 4(e) of the WRA Agreement. Waukee desires to construct a new interceptor sewer and Clive and USSD own and operate an existing trunk sewer which was constructed in 1994 and runs parallel to the future Waukee NE Outfall Sewer. The 28E Agreement between the five entities was drafted for the purpose of setting forth the terms by which the WRA will accept and take ownership of the Waukee NE Outfall Sewer and the Clive/District Trunk Sewer.

The Agreement provides that the Technical Committee is to review and recommend to the Board the anticipated capacity of the proposed Extension and of the ability of the WRA System to accept such additional capacity, the WRA's ability to operate and maintain the Extension, the funding source to ensure that the WRA will not be obligated for any cost of design, property acquisition and/or construction of the extension, and that said Extension shall be solely funded by the proposing Participating Community or Communities separately from the Agreement, the planned service capacity to ensure that more than one Participating Community will be served and/or receive capacity from the Extension.

Brian Hemesath asked if the new sewer would have increased flow from the service area or if it would be the same as it is currently. Rudy Koester stated that it would roughly have the same service area and flow as it currently does.

Brian Hemesath made a motion for recommendation. Rudy Koester seconded that motion. All in favor. The motion carried.

ITEM 5: WRA Fiscal Year 2024 Capital Improvements Program and WRA Fiscal Year 2024 Operation & Maintenance Budget Summary - Discussion/Recommendation

Scott Hutchens gave a presentation providing an overview of the Fiscal Year 2024 Capital Improvements Program and WRA Fiscal Year 2024 Operation and Maintenance Budget Summary.

Jeff May made a motion for recommendation. Rudy Koester seconded that motion. All in favor. The motion carried.

ITEM 6: Industrial Waste Ordinance – Information

Larry Hare noted 38 inspections were completed in Des Moines and Waukee and he noted zero exceptions were received and approved in January.

ITEM 7: Contract Status Update – Information

Scott Hutchens asked that everybody review the sheets attached to see what current projects the WRA is currently working on.

ITEM 8: Other Business

None

ITEM 9: Adjourn

Jeff May made a motion to adjourn. Rudy Koester seconded that motion.  
Meeting adjourned at 2:15 p.m.

**MEMORANDUM**

March 14, 2023

To: WRA Technical Committee

From: Operating Contractor Staff

Re: WRF Fuel System Improvements – Project Recommendation

The WRF Fuel System Improvements is a project need identified several years ago when the WRF's fuel island was found to be nearing the end of its useful life. The improvement includes removal, replacement, and modifications to the existing below grade diesel and gasoline fuel storage and dispensing system, control and communications, sitework, and other incidental item all in accordance with the [plans](#) and contract documents. The project is located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa.

The engineer's estimate for this project is \$1,138,000.00 and bids for the project are anticipated to be taken on Tuesday, May 2, 2023. The bids will then be presented to the WRA Technical Committee at the May 9, 2023 meeting for review and recommendation to the WRA Board for consideration at the May 16, 2023 meeting. The final completion date for the improvement is October 18, 2024 and the project will be funded through the WRF Small CIP project code (WR106).

## MEMORANDUM

March 14, 2023

To: WRA Technical Committee

From: Operating Contractor Staff

Re: WRF Clarifier Improvements, Phase 2 – Contract Recommendation

The WRF Clarifier Improvements, Phase 2 is a project identified in the WRA Facility Plan Update – 2012 which recommended replacement of the WRF’s primary and final clarifier rotating mechanisms. The WRF Clarifier Improvements, Phase 1 project was bid in 2020 and is under construction and included replacement of the primary clarifier rotating mechanisms. The WRF Clarifier Improvements, Phase 2 project design is complete and the improvement is scheduled to bid. The improvement includes phased removal and replacement of twelve (12) secondary clarifier mechanisms, installation of secondary clarifier launder and effluent channel covers, removal and replacement of flow control gates, and other miscellaneous work including all necessary materials, equipment, labor, and cleanup in accordance with the [plans](#) and contract documents. The project is located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa.

The engineer’s estimate for the project was \$37,732,000.00 for the total base bid, and \$36,375,000.00 for the total base bid plus the deduct alternate number one. The Deduct Alternate No. 1 included in the bid tab was a deduction cost to supply 12 FRP clarifier launder covers in lieu of aluminum launder covers included in the Total Base Bid. Two bids were received on February 28, 2023 and are tabulated below:

	Total Base Bid	Total Base Bid plus Deduct Alternate No. 1
Goodwin Brothers Construction (St. Louis, MO)*	\$29,100,000.00	\$28,100,000.00
Williams Brothers Construction (Peoria, IL)	\$31,700,000.00	\$30,800,000.00

\*Bid Read Under Advise ment

Goodwin Brothers Construction, Co. is the apparent low bidder with a bid of \$29,100,000.00 for the Total Base Bid and \$28,100,000.00 for the Total Base Bid plus Deduct Alternate No. 1 which is 22.75% under the engineer’s estimate. Goodwin Brothers Construction, Inc. visited the project site prior to bidding and understands the project requirements. The WRA has not had a contract with Goodwin Brothers Construction, Co. but their references and experience statements provided all appear to be favorable.

The bid from Goodwin Brothers Construction, Co. was read under advisement because SRF bid Attachments No. 4 and No. 5 were returned but not signed; however, the bidder performed the required due diligences to solicit DBE participation. Williams Brothers Construction, Inc. has submitted a letter to the WRA Director indicating a bid protest. The Operating Contractor's Staff initial belief is the issue with Attachments No. 4 and 5 are a minor irregularity that is not material and may be waived but is continuing to review the information, including reaching out to the Iowa Department of Natural Resources. The Operating Contractor's Staff recommends award of the contract to Goodwin Brothers Construction, Co. subject to completion of Staff's review. Additionally, Staff recommends electing to forgo the selection of the Total Base Bid plus Deduct Alternate No. 1 due to the fact that aluminum launder covers are expected to have a longer useful life than FRP launder covers and the savings in the project cost would not cover the replacement of the FRP launder covers in the future.

With a recommendation from the WRA Technical Committee, the Operating Contractor anticipates having the item brought before the WRA Board at the March 21, 2023 WRA Board Meeting. The final completion date for the improvement is October 2, 2026 the project will be funded through project code WR115 (WRF Clarifier Improvements).

TABULATED BY: N. Smith  
CHECKED BY: \_\_\_\_\_

APPROVED BY *Phillip J. Wagen*

**CONTRACTOR'S BID TABULATION**

PROJECT: WRF Clarifier Improvements Phase 2

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	WRF Clarifier Improvements Phase 2, Complete as Specified and Described in Contract Documents	1 LS	\$37,682,000.00	\$37,682,000.00	\$29,020,000.00	\$29,020,000.00	\$31,655,000.00	\$31,655,000.00
2	Concrete Surface Repair, Complete as Specified and Described in Contract Documents	100 SF	\$250.00	\$25,000.00	\$400.00	\$40,000.00	\$250.00	\$25,000.00
3	Concrete Crack Repair, Complete as Specified and Described in Contract Documents	200 LF	\$125.00	\$25,000.00	\$200.00	\$40,000.00	\$100.00	\$20,000.00
TOTAL BASE BID				\$37,732,000.00		\$29,100,000.00		\$31,700,000.00
Deduct Alternate No.1	Deductive Alternative Cost for twelve (12) FRP clarifier launder covers in Lieu of aluminum launder covers Included as Part of Bid Item No. 1 Base Bid, Complete as Specified and Described in Contract Documents	1 LS	-\$1,357,000.00	-\$1,357,000.00	-\$1,000,000.00	-\$1,000,000.00	-\$900,000.00	-\$900,000.00
<b>TOTAL CONSTRUCTION COST (BASE BID PLUS DEDUCT ALTERNATE NO.1)</b>				<b>\$36,375,000.00</b>		<b>\$28,100,000.00</b>		<b>\$30,800,000.00</b>
<b>PERCENT OF ENGINEER'S ESTIMATE</b>						-22.75%		-15.33%
						Low		

Goodwin Brothers Construction  
Co.  
St. Louis, MO

BID SECURITY  
10% Bid Bond

BID PRICE

Williams Brothers Construction  
Inc.  
Peoria, IL

BID SECURITY  
10% Bid Bond

BID PRICE

Bid Read Under Advisement.  
DBE Attachments #4 and #5  
were returned but not signed.  
Bidder performed required due  
diligence to solicit DBE  
participation with no DBE  
interest being received.





March 10, 2023

Patrick Brown  
Des Moines Wastewater Reclamation Authority  
3000 Vandalia Road  
Des Moines, Iowa 50317

**RE: Des Moines WRF Clarifier Improvements – Phase 2  
WRA Activity ID 04-2022-024  
HDR Project No. 10098434**

Dear Patrick,

On February 28, 2023, the City of Des Moines and Des Moines WRA opened two bids for the Des Moines WRF Clarifier Improvements – Phase 2 project. During the advertisement period bidding documents were distributed to 11 different companies, including 7 plan rooms and 2 prime contractors. Dozens of clarifications were provided to prospective bidders, one addendum was issued, and a prebid meeting was conducted on February 15<sup>th</sup>.

As requested on the Bid Form, the bidders offered a lump sum amount for the Clarifier Improvements – Phase 2 project. The lump sum amount for the overall project also included unit prices for 100 square feet of concrete surface repair and 200 linear feet of concrete crack repair in addition to the specific repairs identified in the contract documents. The bidders also presented a deductive alternative cost to provide FRP launder covers in lieu of aluminum. The two Total Base Bids were \$29,100,000.00 for Goodwin Brothers Construction Co. and \$31,700,000.00 for Williams Brothers Construction, Inc. Refer to the attached copy of the Bid Tab provided by the City for summary of bids received.

The two bids received were below the engineer's opinion of probable construction cost. The apparent low bidder, Goodwin Brothers Construction Co., was \$2,600,000.00 (approximately 8.2 percent) below the other bidder Williams Brothers Construction, Inc. The apparent low bidder was also \$8,632,000.00 (approximately 22.8 percent) below the engineer's estimate. These differences give cause for some concern. However, conversations with Goodwin Brothers Construction Co. indicate that they are comfortable with their bid.

At HDR's request, Goodwin Brothers Construction Co. (Goodwin) provided an experience statement with references for projects of similar size and scope, and contact information for their bonding company. Based on conversations with references provided for similar projects and their bonding company, Goodwin appears to be a responsible contractor qualified for this project. The related project experience and bonding company references all checked out favorably. Goodwin is a well-established general contractor in the construction of water and wastewater projects with nearly 50 years of experience. Their construction experience is for larger, multimillion dollars projects ranging from \$0.5 million to \$130 million. Indications are that Goodwin has the financial strength, experience, and project management capabilities to successfully complete the work.

Evaluation of Goodwin's deductive bid alternate for the FRP launder covers indicated the total savings in project cost would be \$1,000,000.00 which is approximately \$83,333 per clarifier. Aluminum launder covers are expected to have a longer useful life compared to FRP launder covers. It is estimated that this one time savings in cost would not cover the costs for replacing FRP launder covers in the future. The WRA would also be able to their own repairs for aluminum launder covers, whereas with FRP launder covers they could not make their own repairs. Based on these considerations, HDR does not recommend accepting the deductive bid alternate.

Following evaluation of the bids received, HDR recommends award of a contract in the amount of \$29,100,000.00 (Total Base Bid), to the following as the lowest responsive, responsible bidder:

Goodwin Brothers Construction Co.  
4885 New Baumgartner Road  
St. Louis, MO 63129  
636-931-6084

If you have any questions, please contact me at 515-280-4962.

Sincerely,  
HDR Engineering, Inc.



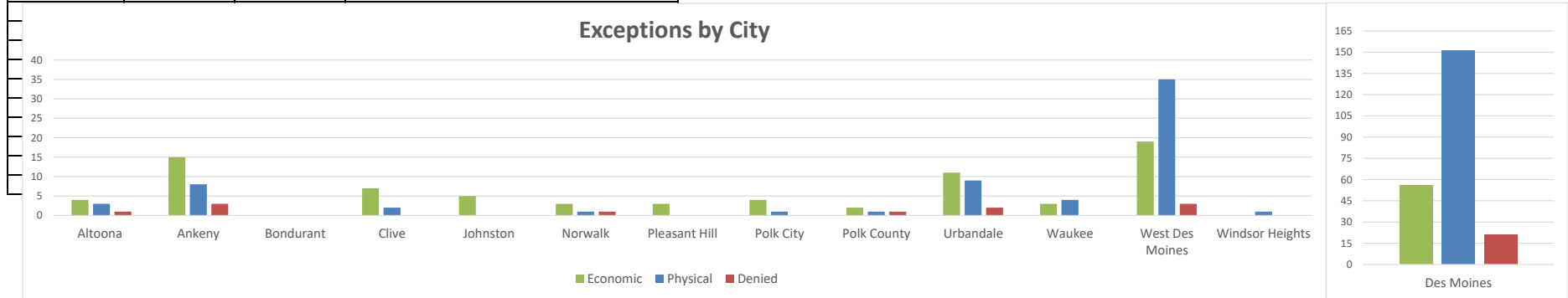
Adam A. Smith, PE  
*Project Engineer*

Copy: Melissa Schlickbernd, WRA  
James Beck, WRA  
Ron Sova, HDR  
Rod Kirkland, HDR  
File

# Progress Report

Month	Annual Inspections	Follow-Up Inspections	Area of Concentration
January-22	32	4	DSM (E 14th), Johnston, WDM
February-22	35	3	DSM, WDM (JC mall)
March-22	28	6	Ankeny, DSM, Urbandale, WDM
April-22	20	15	Urbandale, WDM
May-22	21	0	Urbandale, Johnston
June-22	25	10	DSM, Urbandale, Waukee
July-22	22	8	Johnston, Urbandale, Waukee
August-22	49	4	Urbandale, Waukee, WDM
September-22	30	6	Des Moines, Urbandale, WDM
October-22	10	1	P. Hill, Johnston, Urbandale
November-22	40	5	Altoona, DSM, P. Hill, Urbandale, Waukee
December-22	31	14	Altoona, DSM, Urb. schools, Joh. schools
January-23	27	11	DSM, Waukee
February-23	22	3	Ankeny, DSM, Grimes complaint

February Exceptions			
Food Service Establishment	Type of Appeal	Municipality	Approval (Y/N)
Vibrant Coffee House & Kitchen, 520 E. Grand Avenue	Physical Constraint	Des Moines	Y
New Creations Daycare, 3424 EP True Parkway	Physical Constraint	West Des Moines	Y
The District, 212 4th Street	Physical Constraint	Des Moines	Y
Red Dragon Herbs & Tea, 201 N 3rd Street, Suite E	Physical Constraint	Polk City	Y



## MARCH 2023 - WRA CONTRACT STATUS SHEET - CONSTRUCTION CONTRACTS

<b>WRF Grit Removal Improvements</b>	<b>(WR111)</b>	<b>SRF FUNDED</b>	General Contractor	Dean Snyder Construction
The improvement includes infrastructure modifications to the existing grit removal system, including phased demolition of the existing aerated grit removal tanks, modifications to existing buildings No. 12 and No. 14 and construction of new building No. 10. The major modifications in buildings 12 and 14 include removal and replacement of existing grit washing and handling equipment, pipe work and blower installation. The new building 10 work includes installation of a primary influent bypass channel, stacked tray grit removal system, new grit pump room, electrical room and grit conveyance piping, site work, and utility relocation. All areas will include HVAC, plumbing and electrical improvements, including all necessary materials, equipment, labor, miscellaneous associated work, and cleanup located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa				
			Contract Amount	\$12,515,000.00
			Change Orders to Date	\$1,057,842.10
			Completed to Date	\$13,560,542.10
			Percent Complete	99.9%
<b>WRA Sugar Creek Sponsored Project Improvements - Phase 1</b>	<b>(WR117)</b>	<b>SRF FUNDED</b>	General Contractor	RW Excavating, LC
The improvement includes restoration and stabilization of approximately 3,300 feet of streambank including earthwork, stone rip-rap, seeding, erosion control, storm sewer adjustments, surface restoration, and necessary materials, equipment, labor, miscellaneous association work, and cleanup; all in accordance with the contract document. The project is located along Sugar Creek between Booneville Road and Stagecoach Road in West Des Moines, Iowa				
			Contract Amount	\$1,973,926.00
			Change Orders to Date	\$0.00
			Completed to Date	\$1,755,501.55
			Percent Complete	88.9%
<b>WRF Clarifier Improvements - Phase 1</b>	<b>(WR118)</b>	<b>SRF FUNDED</b>	General Contractor	Williams Brothers Construction
The improvement includes phased removal and replacement of six primary clarifier mechanisms and rehabilitation of Primary Sludge Pump Buildings No. 20 and 21, including new pumps, piping, HVAC, electrical, controls and associated work. Phased repairs to the existing primary influent channel and removal and replacement of HVAC equipment and primary scum pump controls for Primary Scum Pump Station Buildings No. 26, 27 and 28 are also included. All areas will include HVAC, plumbing and electrical improvements, including all necessary materials, equipment, labor, miscellaneous associated work, and cleanup; all in accordance with the contract documents.				
			Contract Amount	\$9,330,000.00
			Change Orders to Date	\$280,091.00
			Completed to Date	\$8,744,877.29
			Percent Complete	91.0%
<b>WRF Flood Improvements</b>	<b>(WR105)</b>	<b>FLOOD MITIGATION GRANT FUNDED</b>	General Contractor	Williams Brothers Construction
The improvement includes phased removal and replacement of existing plant electrical switchgear, construction of a floodwall and new electrical gear around existing Building No. 05, and construction of new Building No. 73. Major modifications around Building No. 05 include utility relocations, electrical transformer replacement and installation of a floodwall with vehicle access gates around the building. New Building No. 73 includes a new pre-engineered metal building to house plant electrical switchgear, natural gas-powered engine electrical generators and new parking lots. The project also includes HVAC, plumbing and electrical improvements, including all necessary materials, equipment, labor, miscellaneous associated work.				
			Contract Amount	\$15,980,000.00
			Change Orders to Date	\$1,319,620.00
			Completed to Date	\$16,279,765.04
			Percent Complete	94.1%
<b>WRF Primary Sludge Piping Replacement</b>	<b>(WR110)</b>	<b>SMALL CIP FUNDED</b>	General Contractor	Shank Constructors, Inc.
The improvement includes replacement and modifications of existing primary sludge piping, sludge grinders, and concrete hydro-demolition and repair for pump wetwell wall pipes, and other incidental items all in accordance with the contract documents.				
			Contract Amount	\$674,900.00
			Change Orders to Date	\$40,611.00
			Completed to Date	\$675,880.00
			Percent Complete	94.5%
<b>WRF Aeration Basin Sensor Improvements</b>	<b>(WR068)</b>	<b>SMALL CIP FUNDED</b>	General Contractor	Baker Mechanical, Inc.
The improvement includes replacement and modifications of existing aeration sensors, controls and associated supports, equipment, conduit and wiring, and other incidental items; all in accordance with the contract documents, including Plan File No. 630-183/240, located at the aeration basins and Buildings 41, 42 and 43 at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa				
			Contract Amount	\$1,530,000.00
			Change Orders to Date	\$24,625.00
			Completed to Date	\$1,322,235.13
			Percent Complete	85.1%
<b>WRA Southwest Equalization Basin Mechanical Repairs</b>	<b>(WR116)</b>	<b>SMALL CIP FUNDED</b>	General Contractor	Woodruff Construction, LLC
The improvement includes furnishing and installing all labor, materials, and equipment for the construction of repairs at the SW Equalization (EQ) Basin site, including but not limited to: drain pump and piping demolition and replacement, clean and repair EQ sluice gates, replace EQ hoist, removal and replacement of sluice gate at Special Structure 2, demolition of sluice gates at Special Structure 5, removal and replacement of well pump, miscellaneous site piping and repairs, rerouting of 16 inch W3 piping from the Control Building to the EQ Tank, removal and replacement of odor control media, electrical rewiring to Valve Room equipment and well pump, radio telemetry from SW Diversion Control Building to Special Structure 2, Valve Room lighting, together with related subsidiary and incidental work, including cleanup, all in accordance with the contract documents and located at 5641 Winona Avenue, City of Des Moines, Polk County, Iowa				
			Contract Amount	\$1,057,300.00
			Change Orders to Date	\$18,566.42
			Completed to Date	\$846,571.18
			Percent Complete	78.7%
<b>WRA Southern Tier Interceptor, Phase 10, Segment 24</b>	<b>(WR107)</b>	<b>SRF FUNDED</b>	General Contractor	Rognes Corporation
This improvement includes construction of sanitary sewer, including all labor, materials and equipment necessary for excavation and backfill of approximately 6,987 feet of 42-inch sanitary sewer with open cut, manholes, steel sheeting, erosion control and miscellaneous associated work, including cleanup; all in accordance with the contract documents. The project is located partially in the City of Des Moines, Warren County, Iowa and partially in unincorporated Warren County, north of the 1200 block of E. Border Street in Des Moines and south of the 10900 block of Beardsley Street in Warren County				
			Contract Amount	\$3,231,000.00
			Change Orders to Date	\$108,000.00
			Completed to Date	\$2,215,602.81
			Percent Complete	66.4%
<b>WRA Ingersoll Run Outlet, Phase 28, Segment 3</b>	<b>(WR088)</b>	<b>SRF FUNDED</b>	General Contractor	Minger Construction Companies
This improvement includes construction of sanitary sewer and paving, including all labor, materials and equipment necessary for excavation and backfill of approximately 1,154 feet of 60-inch through 66-inch sanitary sewer in open cut construction, 999 feet of 60-inch and 66-inch sanitary sewer in trenchless construction, manholes, paving removal and replacement, traffic control, erosion control and miscellaneous associated work, including cleanup; all in accordance with the contract documents. The project is located along Ingersoll Avenue from 18th Street to 19th Street, 19th Street from Ingersoll Avenue to High Street, and High Street from 19th Street to 22nd Street in Des Moines, Iowa				
			Contract Amount	\$4,388,521.00
			Change Orders to Date	\$141,742.00
			Completed to Date	\$1,616,829.95
			Percent Complete	35.7%
<b>WRA Birdland Pump Station Improvements</b>	<b>(WR122)</b>	<b>SRF FUNDED</b>	General Contractor	Williams Brothers Construction
The improvement includes all labor, materials and equipment for the construction of improvements for the Birdland Pump Station, including site work, yard piping, demolition, excavation, cast-in-place concrete, structure and building construction, equipment installation, process piping, mechanical, electrical and controls, rehabilitation and miscellaneous associated work, including cleanup. The project is ocated near Pennsylvania Avenue and North Union Street, Des Moines, Iowa				
			Contract Amount	\$19,480,000.00
			Change Orders to Date	\$21,411.00
			Completed to Date	\$3,655,468.86
			Percent Complete	18.7%
<b>WRA Sewer Lining - Phase 2</b>	<b>(WR113)</b>	<b>SRF FUNDED</b>	General Contractor	Ace Pipe Cleaning, Inc.
The improvement includes all labor, materials and equipment for the construction of improvements for the Birdland Pump Station, including site work, yard piping, demolition, excavation, cast-in-place concrete, structure and building construction, equipment installation, process piping, mechanical, electrical and controls, rehabilitation and miscellaneous associated work, including cleanup. The project is ocated near Pennsylvania Avenue and North Union Street, Des Moines, Iowa				
			Contract Amount	\$3,985,609.50
			Change Orders to Date	\$0.00
			Completed to Date	\$3,538,693.93
			Percent Complete	88.8%
<b>WRF Digester Repairs and Improvemnets</b>	<b>(WR074)</b>	<b>PARTIAL INSURANCE FUNDED AND PARTIAL SMALL CIP FUNDED</b>	General Contractor	Construction Leaders Company
The improvement includes hydro-demolition and replacement of a portion of the concrete lid for anaerobic digester No. 3, pre-cast concrete panel and joint repairs and cleaning to the exterior of anaerobic digesters No. 1-6, concrete crack repairs to the lid of anaerobic digesters No. 2-6, installation of new water level sensors and associated work for anaerobic digesters No. 2-6, and all other associated work and incidental items. The work is located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa				
			Contract Amount	\$1,280,350.00
			Change Orders to Date	\$0.00
			Completed to Date	\$65,351.42
			Percent Complete	5.1%

## MARCH 2023 - WRA CONTRACT STATUS SHEET - CONSTRUCTION CONTRACTS

<b>WRF Blended Sludge Tank Mixer Replacement</b> The improvement includes hydro-demolition and replacement of a portion of the concrete lid for anaerobic digester No. 3, pre-cast concrete panel and joint repairs and cleaning to the exterior of anaerobic digesters No. 1-6, concrete crack repairs to the lid of anaerobic digesters No. 2-6, installation of new water level sensors and associated work for anaerobic digesters No. 2-6, and all other associated work and incidental items. The work is located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa	<b>(WR110)</b> <b>SMALL CIP FUNDED</b>	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Woodruff Construction, Inc. \$1,727,300.00 \$0.00 \$41,884.60 2.4%
<b>WRA Ingersoll Run Outlet, Phase 28, Segment 1</b> This improvement includes construction of sanitary sewer and paving, including all labor, materials and equipment necessary for excavation and backfill of approximately 5,150 feet of 60-inch sanitary sewer in open cut, 985 feet of 42-inch, 54-inch and 60-inch sanitary sewer in trenchless construction, manholes, paving removal and replacement, traffic control, erosion control, cleanup, and miscellaneous associated work; all in accordance with the contract documents, including Plan File No. 642-033/128 located generally along Martin Luther King Jr. Parkway from S.W. 2nd Street to S.W. 16th Street in Des Moines, Iowa	<b>(WR088)</b> <b>SRF FUNDED</b>	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Rognes Corporation \$17,804,480.00 \$0.00 \$174,767.81 1.0%
<b>WRF Belt Filter Press Improvements</b> The improvement includes refurbishment of three existing belt filter presses, removal and replacement of existing water pressure booster pumps, interior piping replacement and modifications, and associated work and incidental items; all in accordance with the contract documents located in Building 70 at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa	<b>(WR136)</b> <b>SMALL CIP FUNDED</b>	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Shank Constructors \$1,991,800.00 \$0.00 \$0.00 0.0%
<b>WRF Building 05 Electrical Room HVAC Improvements</b> The improvement includes removal and replacement of existing HVAC equipment, controls, and associated work and incidental items; all in accordance with the contract documents located in Building 05 at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa	<b>(WR118)</b> <b>SMALL CIP FUNDED</b>	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Air-Con Mechanical Corporation \$293,345.00 \$0.00 \$0.00 0.0%

**MARCH 2023 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS**

<b>WRA Ingersoll Run Outlet Sewer</b>	<b>(WR088)</b>	Consultant	Veenstra & Kimm
	Original Agreement	Design Tasks	\$ 724,064.00
	Original Agreement	Right-of-Way Tasks	\$ 84,860.00
	Supplemental Agreement No. 1	Additional Design and Construction Phase Services	\$ 2,113,711.00
		Completed to Date	\$ 1,087,740.68
		Percent Complete	37.2%
<b>WRF Phosphorus Recovery Facility</b>	<b>(WR112)</b>	Consultant	HDR Engineering
	Original Agreement	Study and Design Tasks	\$ 1,684,245.00
	Supplemental Agreement No. 1	Aeration Evaluation Tasks	\$ 66,800.00
	Supplemental Agreement No. 2	Confidentiality Terms	\$ -
	Supplemental Agreement No. 3	Additional Design Tasks	\$ 914,600.00
		Completed to Date	\$ 2,606,466.76
		Percent Complete	97.8%
<b>WRF Clarifier Improvements</b>	<b>(WR115)</b>	Consultant	HDR Engineering
	Original Agreement	Design Tasks	\$ 585,500.00
	Supplemental Agreement No. 1	Additional Design Tasks	\$ 76,695.00
	Supplemental Agreement No. 2	Additional Design, Bidding, and Construction Tasks	\$ 562,000.00
	Supplemental Agreement No. 3	Additional Design, Bidding, and Construction Tasks	\$ 484,880.00
		Completed to Date	\$ 1,239,511.68
		Percent Complete	72.5%
<b>WRA Sugar Creek Sponsored Project Improvements - Phase 1</b>	<b>(WR117)</b>	Consultant	Snyder & Associates
	Original Agreement	Design, ROW, Bidding, and Construction Tasks	\$ 249,900.00
	Supplemental Agreement No. 1	Additional Design and Construction Services	\$ 89,091.00
		Completed to Date	\$ 338,065.14
		Percent Complete	99.7%
<b>WRA Fourmile Creek Streambank Stabilization Sponsored Projec</b>	<b>(WR109)</b>	Consultant	Snyder & Associates
	Original Agreement	Design, ROW, Bidding, and Construction Tasks	\$ 220,950.00
	Supplemental Agreement No. 1	Additional Design and Construction Services	\$ 395,400.00
	Supplemental Agreement No. 2	Additional Design Services	\$ 40,400.00
		Completed to Date	\$ 568,656.98
		Percent Complete	86.6%
<b>WRA Birdland Pump Station Improvement:</b>	<b>(WR122)</b>	Consultant	HR Green Inc.
	Original Agreement	Investigation and Conceptual Design	\$ 175,000.00
	Supplemental Agreement No. 1	Design and Bidding Services	\$ 826,300.00
	Supplemental Agreement No. 2	Construction Services	\$ 1,222,000.00
		Completed to Date	\$ 1,466,333.66
		Percent Complete	66.0%
<b>WRF Site Access and Security Improvements</b>	<b>(WR121)</b>	Consultant	HDR Engineering
	Original Agreement	Design	\$ 504,650.00
	Supplemental Agreement No. 1	Additional Design and Bidding Services	\$ 326,940.00
		Completed to Date	\$ 831,588.36
		Percent Complete	100.0%
<b>WRF Flood Improvements</b>	<b>(WR105)</b>	Consultant	HDR Engineering
	Original Agreement	Alternatives Development	\$ 212,354.00
	Supplemental Agreement No. 1	Design Services	\$ 776,700.00
	Supplemental Agreement No. 2	Additional Design Services	\$ 99,947.00
	Supplemental Agreement No. 3	Bidding and Construction Services	\$ 1,089,362.00
	Supplemental Agreement No. 4	Additional Construction Services	\$ 516,000.00
		Completed to Date	\$ 2,500,174.78
		Percent Complete	92.8%

**MARCH 2023 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS**

<b>WRA Southern Tier Interceptor, Phase 10, Segment 24</b>	<b>(WR107)</b>	Consultant		Veenstra & Kimm
	Original Agreement	Design, Right-of-Way, and Construction Services	\$	247,000.00
		Completed to Date	\$	168,525.10
		Percent Complete		68.2%
<b>WRF Clarifier Phase 1 Improvements - Special Inspection Services</b>	<b>(WR115)</b>	Consultant		Terracon
	Original Agreement	Special Inspections	\$	20,000.00
		Completed to Date	\$	12,149.25
		Percent Complete		60.7%
<b>WRF Flood Improvements - Special Inspection Services</b>	<b>(WR105)</b>	Consultant		Terracon
	Original Agreement	Special Inspections	\$	65,000.00
	Supplemental Agreement No. 1	Additional Special Inspection	\$	30,000.00
	Supplemental Agreement No. 2	Additional Special Inspection	\$	30,000.00
	Supplemental Agreement No. 3	Additional Special Inspection	\$	30,000.00
		Completed to Date	\$	140,307.75
		Percent Complete		90.5%
<b>WRF Digester Repairs and Improvements</b>	<b>(WR074)</b>	Consultant		HDR Engineering
	Original Agreement	Structural Evaluation	\$	24,071.00
	Supplemental Agreement No. 1	Design and Bidding Services	\$	106,706.00
	Supplemental Agreement No. 2	Construction Services	\$	136,814.00
		Completed to Date	\$	112,269.95
		Percent Complete		42.0%
<b>WRF Air Permitting Assistance Fiscal Year 2021-2022</b>	<b>(WR069)</b>	Consultant		Trinity Consultants
	Original Agreement	Air Permitting Assistance	\$	75,000.00
		Completed to Date	\$	45,997.52
		Percent Complete		61.3%
<b>WRF Engineering Assistance Fiscal Year 2021-2022</b>	<b>(WR116)</b>	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	95,000.00
		Completed to Date	\$	68,147.13
		Percent Complete		71.7%
<b>WRF Building 05 Raw Pump Study</b>	<b>(WR091)</b>	Consultant		HDR Engineering
	Original Agreement	Main Pump Study	\$	69,715.00
		Completed to Date	\$	50,886.29
		Percent Complete		73.0%
<b>WRF Blended Sludge Mixer Improvements</b>	<b>(WR110)</b>	Consultant		HR Green
	Original Agreement	Design and Bidding Services	\$	77,715.00
	Supplemental Agreement No. 1	Additional Design Services	\$	22,200.00
	Supplemental Agreement No. 2	Construction Phase Services	\$	153,875.00
		Completed to Date	\$	147,966.21
		Percent Complete		58.3%
<b>WRF Aeration Basin Sensor Improvements</b>	<b>(WR068)</b>	Consultant		HR Green
	Original Agreement	Design and Bidding Services	\$	78,000.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	115,650.00
		Completed to Date	\$	144,207.82
		Percent Complete		74.5%

**MARCH 2023 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS**

<b>WRA Conveyance Facility Plan Update - 2024</b>	<b>(WR069)</b>	Consultant		Veenstra & Kimm
	Original Agreement	Facility Plan Study	\$	411,000.00
		Completed to Date	\$	375,509.29
		Percent Complete		91.4%
<b>WRA Sewer Lining - Phase 2</b>	<b>(WR113)</b>	Consultant		Snyder & Associates
	Original Agreement	Design Tasks	\$	124,224.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	307,200.00
		Completed to Date	\$	292,020.21
		Percent Complete		67.7%
<b>WRA Southwest Equalization Basin Mechanical Repairs</b>	<b>(WR116)</b>	Consultant		HR Green, Inc.
	Original Agreement	Design Tasks	\$	87,300.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	72,200.00
		Completed to Date	\$	151,814.83
		Percent Complete		95.2%
<b>WRA Sugar Creek Sponsored Project Improvements - Phase 2</b>	<b>(WR117)</b>	Consultant		Snyder & Associates
	Original Agreement	Design Tasks	\$	580,300.00
		Completed to Date	\$	361,380.09
		Percent Complete		62.3%
<b>WRA Renewable Natural Gas Pipeline Assistance</b>	<b>(WR102)</b>	Consultant		Black & Veatch
	Original Agreement	Pipeline Assistance	\$	50,000.00
		Completed to Date	\$	4,516.25
		Percent Complete		9.0%
<b>WRF Building 02 Variable Frequency Drive and HVAC Study</b>	<b>(WR091)</b>	Consultant		HDR Engineering
	Original Agreement	Study	\$	31,096.00
		Additional Design, Bidding, and Construction Services	\$	36,081.00
		Completed to Date	\$	33,982.45
		Percent Complete		50.6%
<b>WRF Solar Power Feasibility Study</b>	<b>(WR124)</b>	Consultant		HDR Engineering
	Original Agreement	Design & Bidding Services	\$	31,236.00
		Completed to Date	\$	26,822.01
		Percent Complete		85.9%
<b>WRF Effluent Pumping Improvement:</b>	<b>(WR124)</b>	Consultant		Black & Veatch
	Original Agreement	Design & Bidding Services	\$	1,279,901.00
		Additional Design Services	\$	85,800.00
		Completed to Date	\$	800,369.34
		Percent Complete		58.6%
<b>WRA Conveyance Engineering Assistance 2022</b>	<b>(WR116)</b>	Consultant		Snyder & Associates
	Original Agreement	Conveyance Engineering Assistance	\$	95,000.00
		Completed to Date	\$	54,319.30
		Percent Complete		57.2%
<b>WRF Building 96 HVAC Improvements</b>	<b>(WR116)</b>	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	35,600.00
		Completed to Date	\$	27,902.21
		Percent Complete		78.4%



**MARCH 2023 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS**

<b>WRF Building 05 Electrical Room HVAC Improvements</b>	<b>(WR116)</b>	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	35,600.00
		Completed to Date	\$	26,178.64
		Percent Complete		73.5%
<b>WRA Materials Testing Services - Ingersoll Run</b>	<b>(WR116)</b>	Consultant		Team Services
	Original Agreement	Materials Testing Services	\$	74,789.00
		Completed to Date	\$	4,595.37
		Percent Complete		6.1%
<b>WRA Treatment Facility Plan Update - 2024</b>	<b>(WR069)</b>	Consultant		HDR Engineering
	Original Agreement	Facility Plan Study	\$	504,900.00
		Completed to Date	\$	288,671.29
		Percent Complete		57.2%
<b>WRA Materials Testing Services - SW EQ Mechanical Repairs</b>	<b>(WR116)</b>	Consultant		Terracon
	Original Agreement	Materials Testing	\$	15,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
<b>WRA Birdland Pump Station Improvements - Special Inspections</b>	<b>(WR122)</b>	Consultant		Terracon
	Original Agreement	Materials Testing	\$	99,840.00
		Completed to Date	\$	18,758.00
		Percent Complete		18.8%
<b>WRF Fuel System Improvements</b>	<b>(WR106)</b>	Consultant		CDM Smith
	Original Agreement	Design and Bidding Services	\$	134,975.00
		Completed to Date	\$	116,023.25
		Percent Complete		86.0%
<b>WRF Building 12 Transformer and Switchgear</b>	<b>(WR131)</b>	Consultant		HDR Engineering, Inc.
	Original Agreement	Study, Design, and Bidding Services	\$	191,918.00
		Completed to Date	\$	37,105.51
		Percent Complete		19.3%
<b>WRA Southern Tier Interceptor, Phase 10, Segment 23</b>	<b>(WR127)</b>	Consultant		Veenstra & Kimm, Inc.
	Original Agreement	Design and Right-of-way Services	\$	227,292.00
		Completed to Date	\$	61,021.98
		Percent Complete		26.8%
<b>WRF Building 70 and 75 Transformer Improvement:</b>	<b>(WR131)</b>	Consultant		HDR Engineering, Inc.
	Original Agreement	Study, Design, and Bidding Services	\$	168,838.00
		Completed to Date	\$	4,146.54
		Percent Complete		2.5%
<b>WRA Southern Tier, Phase 10, Segment 24 - Special Inspection Services</b>	<b>(WR107)</b>	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	20,000.00
		Completed to Date	\$	1,246.00
		Percent Complete		6.2%
<b>WRA Ingersoll Run Outlet Sewer - Vibration Monitoring Services</b>	<b>(WR088)</b>	Consultant		Terracon
	Original Agreement	Vibration Monitoring Services	\$	90,000.00
		Completed to Date	\$	8,070.75
		Percent Complete		9.0%

**MARCH 2023 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS**

<b>WRF Blended Sludge Tank Mixer - Special Inspection Services</b>	<b>(WR110)</b>	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	8,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
<b>WRF Digester Repairs and Improvements - Special Inspection Service</b>	<b>(WR074)</b>	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	10,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
<b>WRF Utilities Mapping 2023 Update</b>	<b>(WR069)</b>	Consultant		HR Green
	Original Agreement	Utility Mapping	\$	90,000.00
		Completed to Date	\$	16,495.88
		Percent Complete		18.3%
<b>WRA General Facility Planning Services - FY 23/24</b>	<b>(WR069)</b>	Consultant		Veenstra & Kimm
	Original Agreement	Design and Bidding Services	\$	95,000.00
		Completed to Date	\$	2,494.50
		Percent Complete		2.6%
<b>WRF Renewable Natural Gas Feed Compressor Analysis</b>	<b>(WR102)</b>	Consultant		AVS Engineering LLC
	Original Agreement	Design and Bidding Services	\$	32,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
<b>WRA Ingersoll Run Outlet, Phase 28, Segment 1 Archaeology Services</b>	<b>(WR088)</b>	Consultant		Wapsi Valley Archaeology
	Original Agreement	Archaeology Services	\$	2,901,147.44
		Completed to Date	\$	-
		Percent Complete		0.0%