

NOTICE OF MEETING

DES MOINES WASTEWATER RECLAMATION AUTHORITY TECHNICAL COMMITTEE

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

January 10, 2023
1:30 p.m.

AGENDA

- ITEM 1: Call to Order
- ITEM 2: Roll Call
- ITEM 3: Minutes for the December 13, 2022 meeting - Approval
- ITEM 4: WRA 2022 Community Populations – Approval
- ITEM 5: WRF Clarifier Improvements – Phase 2 – Project Recommendation
- ITEM 6: WRF CSSSF Mechanical and Electrical Improvements – Project Recommendation
- ITEM 7: WRA Fiscal Year 2024 Capital Improvement Plan – Information
- ITEM 8: Industrial Waste Ordinance – Information
- ITEM 9: Contract Status Update – Information
- ITEM 10: Other Business
- ITEM 11: Adjourn

DES MOINES WASTEWATER RECLAMATION AUTHORITY
TECHNICAL COMMITTEE

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

December 13, 2022
1:30 p.m.

DRAFT MINUTES

ITEM 1: Call to Order

Shane Kinsey, Committee Chair, called the meeting to order at 1:30 p.m.

ITEM 2: Roll Call

Members in Attendance

Dan Scott, Altoona
Roger McFarland, Ankeny
Pat Collison, Bondurant
Jeff May, Clive
Eugene Schmitt, Des Moines
Matt Ahrens, Grimes
Shane Kinsey, Johnston
Russ Paul, Pleasant Hill
Bret VandeLune, Polk County*
John Larson, Urbandale
Tim Royer, Waukee
Brian Hemesath, West Des Moines
Larry Hare, WRF

Others in Attendance

Scott Hutchens, Operating Contractor
James Beck, Operating Contractor
Lisa Etnyre, Operating Contractor
Melissa Schlickbernd, Operating Contractor
Patrick Brown, Operating Contractor
Roxane Vaughan, Operating Contractor

* 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 November 8, 2022 meeting – Approval

Brian Hemesath made a motion for recommendation. Eugene Schmitt seconded that motion. All in favor. The motion carried.

ITEM 4: 2022 Final WRA/WRF Flow Measurements – Approval

James Beck noted the WRA Flows Subcommittee met immediately prior to the WRA Technical Committee. The flows were reviewed in-depth and the Subcommittee recommended approval.

Brian Hemesath made a motion for recommendation. Jeff May seconded that motion. All in favor. The motion carried.

ITEM 5: Election of Chair and Vice Chair for 2023 – Approval

James Beck explained that Shane Kinsey and Jeff May have agreed to serve as Chair and Vice Chair for 2023 and thanked them for continuing to volunteer.

Brian Hemesath made a motion for recommendation. Tim Royer seconded that motion. All in favor. The motion carried.

ITEM 6: Industrial Waste Ordinance – Information

Larry Hare noted 45 inspections were completed in Altoona, Des Moines, Pleasant Hill, Urbandale and Waukee and he noted two exceptions were received and approved in November.

ITEM 7: Contract Status Update – Information

James Beck noted that there was one new consultant contract and two new construction contracts added in November 2022.

ITEM 8: Other Business

James Beck mentioned that the treatment facility plan is almost complete as they just need to finalize a few numbers with HDR Green. He noted that there will be a presentation in the next couple of months to go over both the WRA Conveyance Facility Plan Update and the treatment facility plan.

James also mentioned that there would be a WRA Common and Joint Trunk Sewer consultant selection meeting immediately following and that they plan to have a signed contract by the February 2023 Technical Committee meeting.

ITEM 9: Adjourn

Jeff May made a motion to adjourn. Brian Hemesath seconded that motion. Meeting adjourned at 1:38 p.m.

MEMORANDUM

January 10, 2023

To: WRA Technical Committee

From: Operating Contractor Staff

Re: WRA 2022 Community Populations - Approval

In accordance with Article III, Section 2(c) of the “Second Amended and Restated Agreement for the Des Moines Metropolitan Wastewater Reclamation Authority” the WRA Technical Committee “shall review the most recently available census data for each Participating Community and shall report to the Board the population of each city that is a Participating Community and the population of each census tract situated wholly within a sanitary district or defined service area of a county that is a Participating Community.” The WRA Technical Committee “also shall recommend a proportional assignment of the total population of each Participating Community to each of the Board representatives to which the Participating Community is entitled, for purposes of determining the result of a population weighted vote”.

In November 2022, the Operating Contractor sent a letter to each Participating Community requesting each community’s current population according to the latest certified census, and information related to the appointment of the representatives and alternates to the WRA Board that was approved by the governing bodies of each of the Participating Communities. Attached for your approval is the most recent census data provided to the Operating Contractor from each Participating Community.

2022 WRA Community Population Data

	Community Population	Number of Representatives Allowed	Number of Representatives Elected	Population per Board Representative	Percentage of Total WRA Population per Voting Representative	Community Percentage of Total WRA Population
Altoona	19,565	1	1	19,565	3.565%	3.56%
Ankeny	67,887	3	2	33,944	6.185%	12.37%
Bondurant	7,365	1	1	7,365	1.342%	1.34%
Clive	18,601	1	1	18,601	3.389%	3.39%
Cumming	440	1	1	440	0.080%	0.08%
Des Moines	214,113	9	3	71,371	13.004%	39.01%
Grimes	15,392	1	1	15,392	2.805%	2.80%
Johnston	24,064	1	1	24,064	4.385%	4.38%
Norwalk	12,799	1	1	12,799	2.332%	2.33%
Pleasant Hill	10,147	1	1	10,147	1.849%	1.85%
West Des Moines	68,723	3	2	34,362	6.261%	12.52%
Waukee	23,940	1	1	23,940	4.362%	4.36%
Polk City	5,543	1	1	5,543	1.010%	1.01%
Polk County	10,517	1	1	10,517	1.916%	1.92%
Warren County (Non-voting Member)	0	1	1	0	0.000%	0.00%
Greenfield Plaza/ Hills of Coventry Sanitary District	1,743	1	1	1,743	0.318%	0.32%
Urbandale Sanitary Sewer District	38,449	2	1	38,449	7.006%	7.01%
Urbandale-Windsor Heights Sanitary District	9,543	1	1	9,543	1.739%	1.74%
Total	548,831	31	22	na	na	100.00%

MEMORANDUM

January 10, 2023

To: WRA Technical Committee

From: Operating Contractor Staff

Re: WRF Clarifier Improvements, Phase 2 – Project 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 this project is \$36,375,000.00 and bids for the project are anticipated to be taken on Tuesday, February 28, 2023. The bids will then be presented to the WRA Technical Committee at the March 14, 2023 meeting for review and recommendation to the WRA Board for consideration at the March 21, 2023 meeting. The final completion date for the improvement is October 2, 2026 and the project will be funded through the WRF Clarifier Improvements project code (WR115).

MEMORANDUM

January 10, 2023

To: WRA Technical Committee

From: Operating Contractor Staff

Re: WRF CSSSF Mechanical and Electrical Improvements – Project Recommendation

The WRF CSSSF Mechanical and Electrical Improvement is a project that was developed due to issues encountered with the HVAC system in the electrical room of the Combined Sewer Solids Separation Facility (CSSSF), as well as issues with the Variable Frequency Drives (VFDs) that serve the low flow pumps at the CSSSF. The HVAC system that serves the electrical room has experienced multiple failures over the past several years which has created concerns with potential overheating of the electrical room during warm months when the facility is susceptible to wet weather events. In addition to these concerns the VFDs that serve the low flow pumps require modifications due to reliability concerns.

The improvement includes replacement and modifications of the existing electrical room air conditioning equipment and associated components, modifications to the existing wastewater pump variable frequency drives, temporary cooling of the electrical room during construction as needed, and other incidental items in accordance with the plans and contract documents. The project is located at the Combined Sewer Solids Separation Facility (Building 02) at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa.

The engineer's estimate for this project is \$155,000.00 and bids for the project are anticipated to be taken on Tuesday, February 28, 2023. The bids will then be presented to the WRA Technical Committee at the March 14, 2023 meeting for review and recommendation to the WRA Board for consideration at the March 21, 2023 meeting. The final completion date for the improvement is October 2, 2026 and the project will be funded through the WRA Small CIP (WR078).

MEMORANDUM

January 10, 2023

To: WRA Technical Committee

From: Operating Contractor Staff

Re: WRA Fiscal Year 2024 Capital Improvements Program – Information

Attached for your information is an overview of the changes in the Fiscal Year 2024 CIP. Several small capital improvement projects have been added to the summary page this year and the summary page shows the comparison of last year's CIP estimates to the Fiscal Year 2024 estimates.

Projects included in the CIP include projects that were identified in the WRF Facility Plan Updated – 2012, projects identified in the WRF Secondary Treatment Alternatives Evaluation Study, and projects that have been identified by Staff that will require funds to be expended in the next six years. It is anticipated that the WRA Conveyance Facility Plan Update – 2024 and the WRA Treatment Facility Plan Update – 2024 will be presented to the WRA Board in calendar year 2023 and the improvements identified in those studies will be included in future CIP budgets. The budget information will be available at the WRA website at www.dmmwra.org later this month, and the Fiscal Year 2024 CIP will be presented to the WRA Board for approval at the February 2023 WRA Board meeting.

Wastewater Reclamation Authority

WRA 2024

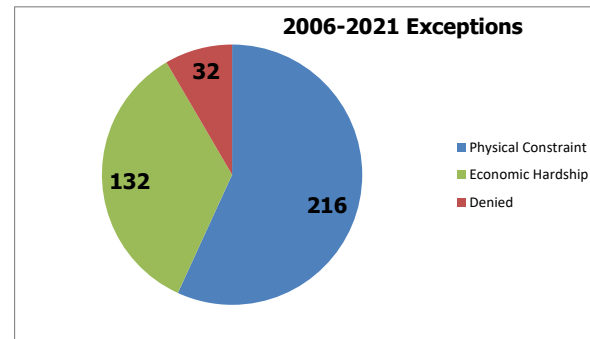
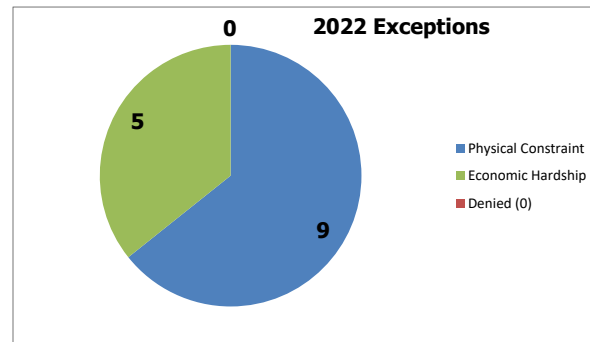
<u>CIP Budget for January Tech Committee Information</u>		Last Year	Recommended	Increase
		2022-23	2023-24	(Decrease)
<u>WRA & WRF Small Projects (WRA Funds)</u>				
closed	Biomethane Conditioning, Injection	19,268,900	19,268,900	-
closed	Eastside Interceptor	81,343,517	81,343,517	-
closed	Trickling Filter Removal	3,900,000	3,900,000	-
WR113	Sewer Lining Projects	47,383,500	49,697,500	2,314,000
WR122	Birdland Pump Stn Improv	17,498,500	22,450,000	4,951,500
WR088	Ingersoll Run CSO	24,842,102	36,070,102	11,228,000
WR127	Southern Tier Improv, Seg 6	6,751,480	8,027,000	1,275,520
WR135	Common & Joint Truck Sewer	32,283,600	34,649,300	2,365,700
WR089	Little Four Mile Improv	7,190,200	7,190,200	-
WR105	Flood Improvements	20,132,461	20,782,524	650,063
WR111	Grit Basin Improvements	17,421,450	17,421,450	-
WR115	Clarifier Improvements	31,108,188	48,304,000	17,195,812
WR112	Phosphorus Recovery Facility	31,341,400	42,200,000	10,858,600
WR124	Effluent pumping	19,996,580	42,331,200	22,334,620
WR123	Aeration Improv	10,180,000	10,200,000	20,000
WR128	Disinfection	15,978,400	15,978,400	-
WR123	Eastside Wet Weather Treatment	65,815,350	65,815,350	-
	Building 05 Improv & Parallel Pipe	18,287,370	18,287,370	-
	Large CIP Project Sum	\$ 470,722,998.0	\$ 543,916,813.0	\$ 73,193,815.0

<u>WRA & WRF Small Projects (WRA Funds)</u>				
on going	Facility Plan, Consulting & Studies	3,224,774	3,650,000	425,226
new L/yr	Digester #3 Repair and Improv	1,125,000	1,455,439	330,439
new L/yr	Digester #1 Gas Cover and Dystor	1,752,500	2,093,000	340,500
new L/yr	WRF Generator Improv/Replc	6,000,000	6,370,000	370,000
new L/yr	WRF Fuel Terminal Upgrade	1,602,500	1,602,500	-
closed	WRA Eq Basin Improv	100,000	100,000	-
closed	WRA Beaver Creek Stabilization	1,313,437	1,313,437	-
WR121	WRF Site Security & New Entrance	6,571,900	8,033,300	1,461,400
closed	WRA Flow Monitoring Sensors	1,521,910		
on going	Facilities Rehabilitation Roof Replc	400,000	1,485,400	1,085,400
on going	Facilities Rehabilitation Hvac Improv	5,300,000	5,300,000	-
new C/yr	Facilities Rehab - B75 Boilers		2,160,000	2,160,000
closed	Past Facility Rehabilitation			-
closed	Past Facility Process Equipment	8,174,927	8,174,927	-
new L/yr	Aeration Sensors		1,250,000	1,250,000
new L/yr	Digester Heat Exchanger Improv		880,200	880,200
new C/yr	B12 Switchgear Improvements		4,600,127	4,600,127
new C/yr	B70 Rotating Drum Thickeners		4,000,000	4,000,000
new C/yr	B70 Belt Filter Press		2,150,000	2,150,000
WR110	Process Equipment Replc	4,064,316	4,064,316	-
WR116	Process Equipment Replc	17,003,825	7,873,625	(9,130,200)
new C/yr	Process Equipment Replc in F2029		3,000,000	3,000,000
	Small CIP Project Sum	\$ 58,155,089.0	\$ 52,971,895.0	\$ 11,456,927.0

Progress Report

Month	Annual Inspections	Follow-Up Inspections	Area of Concentration
January-21	15	0	Ankeny, DSM, Norwalk
February-21	15	2	Altoona, Clive, DSM
March-21	36	7	DSM, P. Hill, Waukee schools
April-21	5	9	Complaint response
May-21	8	1	WDM
June-21	21	7	Norwalk, DSM
July-21	16	2	Clive, DSM
August-21	31	4	Clive, DSM, P. Hill
September-21	15	0	Clive, DSM
October-21	16	12	Ankeny, Clive, Johnston, WDM
November-21	30	6	DSM, Ankeny, Johnston
December-21	33	3	DSM (incl. schools), Ankeny, Urb., WDM
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

December Exceptions			
Food Service Establishment	Type of Appeal	Municipality	Approval (Y/N)
Triple Crown Sports Bar, 1500 SE 1st Street	Economic Hardship	Des Moines	Y



JANUARY 2023 - WRA CONTRACT STATUS SHEET - CONSTRUCTION CONTRACTS

WRF Grit Removal Improvements	(WR111)	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	\$13,165,656.84
		Percent Complete	97.0%
WRA Sugar Creek Sponsored Project Improvements - Phase 1	(WR117)	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%
WRF Clarifier Improvements - Phase 1	(WR118)	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	\$8,415,362.93
		Percent Complete	87.6%
WRF Flood Improvements	(WR105)	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	\$1,140,735.00
		Completed to Date	\$15,975,873.48
		Percent Complete	93.3%
WRF Primary Sludge Piping Replacement	(WR110)	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%
WRF Aeration Basin Sensor Improvements	(WR068)	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	\$1,257,470.27
		Percent Complete	80.9%
WRA Southwest Equalization Basin Mechanical Repairs	(WR116)	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	\$18,566.92
		Completed to Date	\$846,571.18
		Percent Complete	78.7%
WRA Southern Tier Interceptor, Phase 10, Segment 24	(WR107)	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	\$0.00
		Completed to Date	\$112,504.48
		Percent Complete	3.5%
WRA Ingersoll Run Outlet, Phase 28, Segment 3	(WR088)	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	\$0.00
		Completed to Date	\$1,336,423.80
		Percent Complete	30.5%
WRA Birdland Pump Station Improvements	(WR122)	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	\$16,393.00
		Completed to Date	\$3,036,940.99
		Percent Complete	15.6%
WRA Sewer Lining - Phase 2	(WR113)	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	\$3,193,285.42
		Percent Complete	80.1%

JANUARY 2023 - WRA CONTRACT STATUS SHEET - CONSTRUCTION CONTRACTS

WRF Digester Repairs and Improvemnets 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	(WR074)	General Contractor Construction Leaders Company	Contract Amount \$1,280,350.00 Change Orders to Date \$0.00 Completed to Date \$37,549.34 Percent Complete 2.9%
WRF Blended Sludge Tank Mixer Replacement 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	(WR110)	General Contractor Woodruff Construction, Inc.	Contract Amount \$1,727,300.00 Change Orders to Date \$0.00 Completed to Date \$41,884.60 Percent Complete 2.4%
WRA Ingersoll Run Outlet, Phase 28, Segment 1 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	(WR088)	General Contractor Rognes Corporation	Contract Amount \$17,804,480.00 Change Orders to Date \$0.00 Completed to Date \$174,767.81 Percent Complete 1.0%
WRF Belt Filter Press Improvements 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	(WR136)	General Contractor Shank Constructors	Contract Amount \$1,991,800.00 Change Orders to Date \$0.00 Completed to Date \$0.00 Percent Complete 0.0%
WRF Building 05 Electrical Room HVAC Improvements 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	(WR118)	General Contractor Air-Con Mechanical Corporation	Contract Amount \$293,345.00 Change Orders to Date \$0.00 Completed to Date \$0.00 Percent Complete 0.0%

DECEMBER 2022 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS

WRA Ingersoll Run Outlet Sewer	(WR088)	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	\$ 1,057,101.03
			Percent Complete	36.2%
WRF Phosphorus Recovery Facility	(WR112)	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	\$ 2,591,089.87
			Percent Complete	97.2%
WRF Clarifier Improvements	(WR115)	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	\$ 1,216,488.90
			Percent Complete	71.2%
WRA Sugar Creek Sponsored Project Improvements - Phase 1	(WR117)	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%
WRA Fourmile Creek Streambank Stabilization Sponsored Project	(WR109)	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	\$ 564,833.23
			Percent Complete	86.0%
WRA Birdland Pump Station Improvements	(WR122)	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	\$ 1,381,924.60
			Percent Complete	62.2%
WRF Site Access and Security Improvements	(WR121)	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%
WRF Flood Improvements	(WR105)	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	\$ 2,449,490.36
			Percent Complete	90.9%

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WRA Southern Tier Interceptor, Phase 10, Segment 24	(WR107)	Consultant		Veenstra & Kimm
	Original Agreement	Design, Right-of-Way, and Construction Services	\$	247,000.00
		Completed to Date	\$	152,591.35
		Percent Complete		61.8%
WRF Clarifier Phase 1 Improvements - Special Inspection Services	(WR115)	Consultant		Terracon
	Original Agreement	Special Inspections	\$	20,000.00
		Completed to Date	\$	11,495.75
		Percent Complete		57.5%
WRF Flood Improvements - Special Inspection Services	(WR105)	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	\$	138,514.00
		Percent Complete		89.4%
WRF Digester Repairs and Improvements	(WR074)	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	\$	108,231.39
		Percent Complete		40.4%
WRF Air Permitting Assistance Fiscal Year 2021-2022	(WR069)	Consultant		Trinity Consultants
	Original Agreement	Air Permitting Assistance	\$	75,000.00
		Completed to Date	\$	45,997.52
		Percent Complete		61.3%
WRF Engineering Assistance Fiscal Year 2021-2022	(WR116)	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	95,000.00
		Completed to Date	\$	68,147.13
		Percent Complete		71.7%
WRF Building 05 Raw Pump Study	(WR091)	Consultant		HDR Engineering
	Original Agreement	Main Pump Study	\$	69,715.00
		Completed to Date	\$	50,886.29
		Percent Complete		73.0%
WRF Blended Sludge Mixer Improvements	(WR110)	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	\$	140,810.21
		Percent Complete		55.5%
WRF Aeration Basin Sensor Improvements	(WR068)	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	\$	140,342.32
		Percent Complete		72.5%

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WRA Conveyance Facility Plan Update - 2024	(WR069)	Consultant		Veenstra & Kimm
	Original Agreement	Facility Plan Study	\$	411,000.00
		Completed to Date	\$	336,652.33
		Percent Complete		81.9%
WRA Sewer Lining - Phase 2	(WR113)	Consultant		Snyder & Associates
	Original Agreement	Design Tasks	\$	124,224.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	307,200.00
		Completed to Date	\$	252,565.69
		Percent Complete		58.5%
WRA Southwest Equalization Basin Mechanical Repairs	(WR116)	Consultant		HR Green, Inc.
	Original Agreement	Design Tasks	\$	87,300.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	72,200.00
		Completed to Date	\$	144,427.83
		Percent Complete		90.6%
WRA Sugar Creek Sponsored Project Improvements - Phase 2	(WR117)	Consultant		Snyder & Associates
	Original Agreement	Design Tasks	\$	580,300.00
		Completed to Date	\$	339,330.45
		Percent Complete		58.5%
WRA Renewable Natural Gas Pipeline Assistance	(WR102)	Consultant		Black & Veatch
	Original Agreement	Pipeline Assistance	\$	50,000.00
		Completed to Date	\$	4,516.25
		Percent Complete		9.0%
WRF Building 02 Variable Frequency Drive and HVAC Study	(WR091)	Consultant		HDR Engineering
	Original Agreement	Study	\$	31,096.00
		Completed to Date	\$	17,375.56
		Percent Complete		55.9%
WRF Solar Power Feasibility Study	(WR124)	Consultant		HDR Engineering
	Original Agreement	Design & Bidding Services	\$	31,236.00
		Completed to Date	\$	26,822.01
		Percent Complete		85.9%
WRF Effluent Pumping Improvements	(WR124)	Consultant		Black & Veatch
	Original Agreement	Design & Bidding Services	\$	1,279,901.00
		Additional Design Services	\$	85,800.00
		Completed to Date	\$	517,065.09
		Percent Complete		37.9%
WRA Conveyance Engineering Assistance 2022	(WR116)	Consultant		Snyder & Associates
	Original Agreement	Conveyance Engineering Assistance	\$	95,000.00
		Completed to Date	\$	49,934.30
		Percent Complete		52.6%

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WRF Building 96 HVAC Improvements	(WR116)	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	35,600.00
		Completed to Date	\$	26,817.46
		Percent Complete		75.3%
WRF Building 05 Electrical Room HVAC Improvements	(WR116)	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	35,600.00
		Completed to Date	\$	25,503.64
		Percent Complete		71.6%
WRA Materials Testing Services - Ingersoll Run	(WR116)	Consultant		Team Services
	Original Agreement	Materials Testing Services	\$	74,789.00
		Completed to Date	\$	4,595.37
		Percent Complete		6.1%
WRA Treatment Facility Plan Update - 2024	(WR069)	Consultant		HDR Engineering
	Original Agreement	Facility Plan Study	\$	504,900.00
		Completed to Date	\$	218,363.96
		Percent Complete		43.2%
WRA Materials Testing Services - SW EQ Mechanical Repairs	(WR116)	Consultant		Terracon
	Original Agreement	Materials Testing	\$	15,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRA Birdland Pump Station Improvements - Special Inspections	(WR122)	Consultant		Terracon
	Original Agreement	Materials Testing	\$	99,840.00
		Completed to Date	\$	17,422.75
		Percent Complete		17.5%
WRF Fuel System Improvements	(WR106)	Consultant		CDM Smith
	Original Agreement	Design and Bidding Services	\$	134,975.00
		Completed to Date	\$	84,489.00
		Percent Complete		62.6%
WRF Building 12 Transformer and Switchgear	(WR131)	Consultant		HDR Engineering, Inc.
	Original Agreement	Study, Design, and Bidding Services	\$	191,918.00
		Completed to Date	\$	25,589.76
		Percent Complete		13.3%
WRA Southern Tier Interceptor, Phase 10, Segment 23	(WR127)	Consultant		Veenstra & Kimm, Inc.
	Original Agreement	Design and Right-of-way Services	\$	227,292.00
		Completed to Date	\$	41,519.38
		Percent Complete		18.3%
WRF Building 70 and 75 Transformer Improvements	(WR131)	Consultant		HDR Engineering, Inc.
	Original Agreement	Study, Design, and Bidding Services	\$	168,838.00
		Completed to Date	\$	4,146.54
		Percent Complete		2.5%

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WRA Southern Tier, Phase 10, Segment 24 - Special Inspection Services	(WR107)	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	20,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRA Ingersoll Run Outlet Sewer - Vibration Monitoring Services	(WR088)	Consultant		Terracon
	Original Agreement	Vibration Monitoring Services	\$	90,000.00
		Completed to Date	\$	2,913.25
		Percent Complete		3.2%
WRF Blended Sludge Tank Mixer - Special Inspection Services	(WR110)	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	8,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRF Digester Repairs and Improvements - Special Inspection Services	(WR074)	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	10,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRF Utilities Mapping 2023 Update	(WR069)	Consultant		HR Green
	Original Agreement	Utility Mapping	\$	90,000.00
		Completed to Date	\$	3,180.50
		Percent Complete		3.5%
WRA General Facility Planning Services - FY 23/24	(WR069)	Consultant		Veenstra & Kimm
	Original Agreement	Design and Bidding Services	\$	95,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRF Renewable Natural Gas Feed Compressor Analysis	(WR102)	Consultant		AVS Engineering LLC
	Original Agreement	Design and Bidding Services	\$	32,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%