CITY OF RIVERSIDE COUNCIL MEETING AGENDA RIVERSIDE COUNCIL CHAMBERS 60 N GREENE ST

Tuesday, September 5, 2023 6:00 PM

The meeting will be recorded and can be viewed live by visiting the city website at www.riversideiowa.gov

NOTICE TO THE PUBLIC: This is a meeting of the City Council to conduct the regular business of the city. Every item on the agenda is an item of discussion and action if needed.

- city. Every item on the agenda is an item of discussion and action if needed.
 - 2. Roll Call
 - 3. Approval of Agenda

1. Call meeting to order

- 4. Consent agenda
 - a. Minutes
 - b. Expenditures
 - c. RACC Fall Demo Derby
- 5. Public forum: 3 minutes per person. See guidelines for public comments at the Clerk's table.
- 6. City Engineer's Report (Axiom) (7)
 - a. Wastewater treatment plant project
 - b. Consider Resolution (2023-64) Change Order #2- WWTP Roof Insulation Adjustments
 - c. Consider Resolution for Change Order #3 WWTP Exterior Doors
 - d. Consider Resolution WWTP Pay Request #2 (9)
 - e. Water treatment plant update.
 - f. 3rd St Miscellaneous Items
 - g. Birthplace ADA Ramp
 - h. Consider Resolution for adopting Iowa SUDAS (12)
- 7. PeopleService
 - a. Well #6 (13)
 - b. Harn Report (22)
 - c. Generator Report (35)
 - d. Repair LS#2 Fairbanks pump (67)

CITY OF RIVERSIDE COUNCIL MEETING AGENDA RIVERSIDE COUNCIL CHAMBERS 60 N GREENE ST

- e. Replace WWTP digester pump (69)
- 8. City Administrator's Report (70)
 - a. Auditing firm for FY 23 Annual Exam (71)
 - b. Riverside Fire Department Stipend Policy Update (74)
 - c. Employee Handbook Update
 - d. Debbins Building Update (77)
- 9. Monthly Financial and Billing Report July 2023 (79)
- 10. Closing Comments
- 11. Motion to Adjourn

RIVERSIDE CITY COUNCIL MEETING: Monday, August 21st, 2023

The Riverside City Council meeting opened at 6:00 pm at City Hall with Mayor Allen Schneider requesting roll call. Council members present: Tom Sexton, Edgar McGuire, Kevin Kiene, and Kevin Mills. Absent: Lois Schneider

Motion by McGuire, second by Sexton to approve agenda. Passed 4-0.

Motion made by Sexton, second by Kiene to approve consent agenda including minutes, expenditures, Dollar General alcohol permit renewal, omitting Buckeye Street closing request for more information. Passed 4-0.

Mary Audia, Washington Economic Development Group, gave an update on the student-built home project, business retention, tourism, CDBG Downtown Revitalization in Riverside, and discussed ways in which the City and WEDG can continue to work together.

David Tornow presented a report on permits and nuisances, discussed dangerous building ordinance, swimming pool fence ordinance, and a developer expectations packet.

Brian Boelk, Axiom Consulting, gave updates on the Wastewater Treatment Plant, Water Plant, 3rd Street Improvements, Boat Ramp, and Capital Improvement Project planning.

Sexton moved, second by Mills to table resolution for change order to Wastewater Project. Passed 4-0.

Luis Ramirez of PeopleService, Inc. presented monthly reports and discussed the monthly PeopleService meeting attended by PeopleService staff, V&K, and City staff.

Cole Smith presented City Admin Report.

Sexton moved, second by McGuire to pass Resolution #2023-64, approving to waive review of Charles Strabala Estate. Passed 4-0.

Motion by Kiene, second by McGuire to adjourn at 7:57 PM. Passed 4-0.

Full content of Council Meetings can be viewed on the City website; riversideiowa.gov

City Council Meeting – Tuesday, September 5th, 2023 at 6:00 pm in City Hall.

ATTEST:

Cole Smith; City Administrator

Allen Schneider; Mayor

	EXPENDITURES SEPTEMBER 5, 20	23					
	7,						
	COUNCIL MEETING	BILLS					
1	ALLIANT ENERGY	PARKS	001-5-430-6371	\$	478.29		
2	ALLIANT ENERGY	SEWER	610-5-815-6371	\$	631.96		
3	ALLIANT ENERGY	CITY HALL	001-5-650-6371	\$	603.71		
4	ALLIANT ENERGY	STREET LIGHTS	001-5-230-6371	\$	1,437.90		
5	ALLIANT ENERGY	FIRE STATION	002-5-150-6330	\$	759.11	•	1 000 1-
7	ALLIANT ENERGY ABOVE & BEYOND	WATER SHOP SERVICE	600-5-810-6371	\$	309.48	\$	4,220.45
	ABOVE & BEYOND	CITY HALL SERVICE	001-5-210-6507	\$	519.07	Φ.	000 =1
9	ACCESS	COPIER	001-5-650-6310 001-5-650-6496	\$	120.44 381.99	\$	639.51
	ACME ELECTRIC	WTP SERVICE		25.62.5			
_	AIRGAS	FD-EMS	600-5-810-6374 002-5-150-6375	\$	373.64 215.32		
	ALTORFER	5 LS GENERATORS	610-5-815-6330	\$	3,426.00		
	ALTORFER	WTP GERERATOR	600-5-810-6330	\$	1,012.00		
	ALTORFER	FD GENERATOR	002-5-150-6333	\$	660.00		
	ALTORFER	WWTP GENERATOR	610-5-815-6330	\$	1,019.00	\$	6,117.00
	AXIOM CONSULTANTS	WWTP	301-5-750-6798	\$	890.00	Ψ	0,117.00
17		3RD STREET	301-5-750-6796	\$	2,383.75	\$	3,273.75
500000	BECKY LaROCHE	CELL STIPEND	001-5-650-6373	\$	50.00	φ	3,273.73
	BRYAN LENZ	CELL STIPEND	001-5-430-6373	\$	50.00		
200	CITY OF KALONA	BUILD INSPECT- JUNE	001-5-170-6499	\$	1,696.13		
	CITY OF KALONA	BUILD INSPECT- JULY	001-5-170-6499	\$	1,744.04	\$	3,440.17
22		CELL STIPEND	001-5-650-6373	\$	50.00	φ	3,440.17
	COLE SMITH	MILEAGE	001-5-650-6240	\$	123.80	\$	173.80
	CRESENT ELECTRIC	VETS PK FOUNTAIN POLE LIGHTS	001-5-430-6325	\$	89.99	φ	173.00
nevace.	ELECTRIC PUMP	WWTP SERVICE CALL	610-5-815-6374	\$	1,085.00		
	ELECTRIC PUMP	FLYGT IMPELLER KIT	610-5-815-6374	\$	9,258.30		
	ELECTRIC PUMP	FLYGT PUMP REPAIR AS QUOTED	610-5-815-6374	\$	10,271.00	\$	20,614.30
	FASTENAL	WTP	600-5-810-6374	\$	9.34	Ψ	20,014.30
	FP MAILING	3RD QTR LEASE	001-5-650-6508	\$	86.85		
	FP MAILING	RED INK	001-5-650-6508	\$	186.32	2	273.17
31		WTP-AIR FILTERS	600-5-810-6374	\$	106.32	Ψ	213.11
- 25000	IPI	CASINO TURN SIGNS	110-5-210-6415	\$	144.20		
	JIMS SMALL ENGINE	PARKS	001-5-430-6325	\$	107.11		
_	KUM&GO	FD-FUEL	002-5-150-6350	\$	206.17		
	LINCOLN NAT'L LIFE	INSURANCE	001-5-620-6150	\$	188.76		
	LOGAN MICHEL	CELL STIPEND	001-5-210-6373	\$	50.00		
37	MEARDON, SUEPPEL, DOWNER	LEGAL	001-5-640-6411	\$	1,105.00		
38	MENARDS	WWTP	610-5-815-6374	\$	169.90		
39	MENARDS	PARKS-CRACK FILLER	001-5-430-6325	\$	85.80		
40	MENARDS	WTP	600-5-810-6374	\$	216.16	\$	471.86
41	MID AMERICAN ENERGY	SHOP	001-5-210-6371	\$	11.44		
42	MID AMERICAN ENERGY	RVFD	002-5-150-6330	\$	13.08		
43		C HALL	001-5-650-6371	\$	11.44	\$	35.96
	MIDWEST BREATHING AIR	FD-AIR PACS	002-5-150-6356	\$	888.92		
	PEOPLE SERVICES	SERVICE	610-5-815-6500	\$	12,623.00		
	PEOPLE SERVICES	SERVICE	600-5-810-6500	\$	12,623.00	\$	25,246.00
	SHARON TELEPHONE	CITY HALL	001-5-650-6373	\$	313.62		
	SHARON TELEPHONE	FIRE STATION	002-5-150-6332	\$	87.68		
	SHARON TELEPHONE	SHOP	001-5-210-6373	\$	40.83		
	SHARON TELEPHONE SHARON TELEPHONE	WATER PLANT	600-5-810-6373	\$	40.83	•	
	VEENSTRA & KIM	SEWER PLANT WTP ENGINEERING	610-5-815-6373	\$	40.83	\$	523.79
	VERIZON	ADMIN TABLET	301-5-750-6800	\$	953.58		
54	VEINIZOIN	ADMIN TABLET	001-5-650-6373	\$	25.02	_	
_				\$	69,975.12		
55	TOTAL BILLS*****************				03,313.12		
55 56	TOTAL BILLS***********************************	BILLING-AUG	001-5-430-6150	_	192.59		
	DELTA DENTAL	BILLING-AUG FD- TRUCK	001-5-430-6150	\$	192.58 287.93		
56	DELTA DENTAL	BILLING-AUG FD- TRUCK BC/BS	002-5-150-6352	\$	287.93		
56 57	DELTA DENTAL KALONA TIRE WELLMARK	FD- TRUCK	002-5-150-6352 001-5-620-6150	\$ \$ \$	287.93 2,118.59		
56 57 58	DELTA DENTAL KALONA TIRE	FD- TRUCK BC/BS	002-5-150-6352 001-5-620-6150 001-5-650-6496	\$ \$ \$	287.93 2,118.59 313.00		
56 57 58 59	DELTA DENTAL KALONA TIRE WELLMARK LEAF	FD- TRUCK BC/BS FINAL COPIER	002-5-150-6352 001-5-620-6150	\$ \$ \$	287.93 2,118.59		
56 57 58 59 60	DELTA DENTAL KALONA TIRE WELLMARK LEAF VERIZON	FD- TRUCK BC/BS FINAL COPIER GATEWAY-WW	002-5-150-6352 001-5-620-6150 001-5-650-6496 610-5-815-6373	\$ \$ \$ \$	287.93 2,118.59 313.00 63.54		
56 57 58 59 60 61	DELTA DENTAL KALONA TIRE WELLMARK LEAF VERIZON US CELLULAR	FD- TRUCK BC/BS FINAL COPIER GATEWAY-WW FD	002-5-150-6352 001-5-620-6150 001-5-650-6496 610-5-815-6373 002-5-150-6332	\$ \$ \$ \$	287.93 2,118.59 313.00 63.54 72.45	\$	3,114.70
56 57 58 59 60 61 62	DELTA DENTAL KALONA TIRE WELLMARK LEAF VERIZON US CELLULAR WATER ACCOUNT	FD- TRUCK BC/BS FINAL COPIER GATEWAY-WW FD RETURN DEPOSIT	002-5-150-6352 001-5-620-6150 001-5-650-6496 610-5-815-6373 002-5-150-6332	\$ \$ \$ \$	287.93 2,118.59 313.00 63.54 72.45	\$	3,114.70
56 57 58 59 60 61 62 63 64 65	DELTA DENTAL KALONA TIRE WELLMARK LEAF VERIZON US CELLULAR WATER ACCOUNT	FD- TRUCK BC/BS FINAL COPIER GATEWAY-WW FD RETURN DEPOSIT	002-5-150-6352 001-5-620-6150 001-5-650-6496 610-5-815-6373 002-5-150-6332	\$ \$ \$ \$	287.93 2,118.59 313.00 63.54 72.45	\$	3,114.70
56 57 58 59 60 61 62 63 64	DELTA DENTAL KALONA TIRE WELLMARK LEAF VERIZON US CELLULAR WATER ACCOUNT	FD- TRUCK BC/BS FINAL COPIER GATEWAY-WW FD RETURN DEPOSIT TOTAL PAID BILLS	002-5-150-6352 001-5-620-6150 001-5-650-6496 610-5-815-6373 002-5-150-6332	\$ \$ \$ \$ \$ \$ \$ \$	287.93 2,118.59 313.00 63.54 72.45 66.61	\$	3,114.70

68				
69				
70				
71	EXPENDITURES by FUND			
72	GENERAL FUND	\$	9,557.55	
73	FIRE DEPARTMENT	\$	2,830.28	
74	ROAD USE FUND	\$	144.20	
75	CASINO FUND	S	_	
76	CAPITAL PROJECTS	S	4,227.33	
77	WATER FUND	S	14,689.91	
78	SEWER FUND	S	38,525.85	
79	TOTAL EXPENDITURES	\$	69,975.12	



CITY OF RIVERSIDE
PARK RESERVATION FORM

Reservation Date(s)	Th
Reservation Time(s) / / / / / / / / / / / / / / / / / / /	- DM
Name RACC F	He Demo Duby
Phone	rund
The renter listed above agrees to the following	g terms for reserving CITY PARKS.
 Rental is \$25 in advance (Shelt Picnic tables if moved are to be All trash and/or recycling shou 	ter and stage only). The returned to their original location. In the placed in appropriate containers.
Renter is responsible for any and all damages	made to Park Shelters and/or ball diamonds.
Please indicate Park rental choice:	no Desbu
Railroad Park Shelter	Conservation Park Shelter
Hall Park Shelter	Hall Park Stage (red barn)
Hall Park ball diamonds East West Both	Hall Park Playground Area
Concession Stand	Tennis Court
Volleyball Area	Demo Pit Area
RACC Signature	9-31-23 Date
City Approval	Date
Rental Fee Paid Date	Cash Check#



CLIENT PROGRESS REPORT

PROJECT NAME

RIVERSIDE WASTEWATER TREATMENT RENOVATIONS

CURRENT ACTIVITIES and SCOPE of WORK

Arrived for the bi-weekly progress meeting then continued to walk the site after. Noted, due to heat, workers were not active at the time of the visit.

Since the last visit, all (4) exterior walls show that IMWP is installed. Crews are actively working trims and around windows, doors and miscellaneous items. They are anticipated to be completed with trims by Monday/Tuesday of next week (8/28-8/29). Once trims are complete, crews will continue with caulking and that is anticipated to be completed by Friday, September 1st (weather pending).

Make-Up Air (MUA) unit is anticipated to be delivered by Friday, September 1st.

Interior work is to start week of 8/28, as PeopleService will start clearing out the lab space on Monday/Tuesday and Spectra will start prepping walls on Wednesday. They will be using wire brushes and wire wheels to remove paint and residue from walls.

It was noted that once paint is ground off, a review of the existing grout may be addressed with Horizon Architecture for any issues.

Once walls are cleared, crews will prep before crews appling the new coating.

Design team issued ITC 03 Door Replacement on 8/16 to provide direction for Spectra to gather pricing. Pricing should be ready for the upcoming Council Meeting.

AXIOM PROJECT NO. DATE 220181 8/24/2023

REPORT NO. PAGE

AXIOM REPRESENTATIVE (reported by) Adrianne Bricker

CLIENT REPRESENTATIVE (reported to) Cole Smith, City Administrator & Riverside Council

CURRENT PHASE NEXT PHASE

PROVIDED FOR:

09

Upcoming Council Meeting / Design Team Updates

SCHEDULE ITEMS

Delivery Date of RTU - TBD

Revised Schedule: Installation of IMWPs trims ~8/28-8/29

Coping installation - TBD

PeopleService to clear lab ~8/28-8/29

Interior wall prep ~8/30

Interior wall grinding ~8/31-9/6

Interior coatings to start ~9/6

Mechanical/Electrical rough-in to start ~TBD pending grinding

Active Contractors: Spectra Build

Volve Contracting



AXIOM PROJECT NO.	DATE
220181	8/24/2023
CLIENT PROJECT NO.	PAGE



Overview from SW corner of site, shows panel install is complete with trims, caulking, coping and re-installation of lighting and signage left.



Overview from the NE corner shows progress of panel installation.



Overview of the north face shows crews working around miscellaneous items and trimming needed



Overview of the lab, PeopleService to move all items to center counter-top to be protected by Spectra and to have access for testing as needed.

PROJECT COORDINATOR or MANAGER SIGNATURE

NOTICE. AXIOM consumed have completed this report to the design that a dility in the most accurate lesh on consider at the lime and with the information available at the time of its writing. This report serves as a scapshot of design phase progress and is provided to the Chert in order to update than on the general overall status of the design team (and possibly subconsultants) in relation to the contracted score of work. This report should not serve as official scheduling document in so far as it may portradict the originally contracted work or perfain to adjustments in the overall scope of work. The report is intended as an informational document only to be used by the client in understanding the current workload and path of the design team.

RESOLUTION #2023-XX

RESOLUTION APPROVING PAY REQUEST #2 TO SPECTRA BUILD FOR THE WASTEWATER TREATMENT PLANT PROJECT

Whereas, the City of Riverside City at the recommendation of the City Engineering Firm, Axiom Consultants, Brian Boelk and it is the opinion of the City Engineering Firm that the City Council accept this pay request #2 in the amount of \$65,431.25 for payment of this project.

Therefore, be it resolved the City of Riverside City Council does hereby accept the Pay Request #2 for work done on the Wastewater Treatment Plant Project through 8/25/23. It was moved by Councilperson _____ to approve the foregoing resolution. Roll Call: Sexton, McGuire, Schneider, Kiene, Mills Ayes: Nays: Absents: PASSED AND APPROVED by City Council of Riverside, Iowa, on this 5th day of September, 2023. Signed: _____ Date____ Tom Sexton, Mayor Pro Tem Date

Becky LaRoche, City Clerk



Progress Billing

Application: 2

Period: 08/25/2023

Owner: City of Riverside 60 Greene St Riverside IA 52327

Job Location: Riverside WWTP Renovations 22041 1197 Vine Ave Riverside IA 52327

Application For Payment On Cor	ntract	Contractor's Certification of Work
Original Contract	299,700.00	The undersigned contractor certifies that, to the best of the contractor's
Net Change by Change Orders	18,489.38	knowledge, the work on the above named job has been completed in
Contract Sum to Date	318,189.38	accordance with the plans and specifications to the level of completion
Total Complete to Date	218,467.49	indicated on the attached schedule of completion.
Total Retained Total Earned Less Retained	10,098.52 208,368.97	Contractor: Date: 8/29/2023
Less Previous Billings	142,937.72	
Current Payment Due	65,431.25	lb. n. 1
Balance on Contract	109,820.41	Approved: Adrianne M. Bricker 8/29/2023 Project Manager/Coordinator

Terms: Invoices are due and payable from the date of invoice. All overdue amounts will be charged a service charge of 0.00 % per annum. Please make checks payable to: Spectra Build

Thank you for your prompt payment.

PROGRESS BILLING

Application: 2

Period: 08/25/2023

Schedule of Work Completed

	200,100.00	10,403.30	318,189.38	149,592.50	68,874.99		218,467.49	68.66	99,721.89	10,098.52
Totals:	299,700.00	18,489.38	16,497.00	16,497.00			16,497.00	100.00		
Change Order# 3		1,992.38 16,497.00	1,992.38	40.40====					1,992.38	
Change Order# 2	0,741.00	1 000 20	6,741.60						6.741.60	
Electrical Package	6,741.60		40,449.60						40,449.60	
IVAC Package	40,449,60		12,582.48						12,582.48	-
Painting Package	751.30 12,582.48		751.30						751.30	00
Joint Sealant/Caulking	751.30		8,893.29	3,383.00	5,510.29		8,893.29	100.00		444.66
Fluid Applied Vapor Barrier	8,893.29		1,685.40		1,685.40		1,685.40	100.00	,	84.27
Blower Exhaust Extension	1,685.40		122,472.40	62,493.10	54,979.30		117,472.40	95.92	5,000.00	5,873.62
IMWP Package	122,472.40		898.88						898.88	-,
Coping-2x blocking	898.88		67,977.80	60,477.80			60,477.80	88.97	7,500.00	3,023.89
Roofing Package	4,762.00 67,977,80		4,782.00	00.4	2,200.00		2,200.00	46.01	2,582.00	110.00
Steel Angle @ Openings	4.782.00		2,809.00						2,809.00	20.00
CMU Repointing/Patching	2,809.00		705.60		400.00		400.00	56.69	305.60	20.00
Misc Demolition	1,411.20 705.60		1,411.20		400.00		400.00	28.34	1,011.20	20.00
Exterior Signage Removal/R	5,265.80		5,265,80						5,265.80	
CMU Efflorescense Cleanin	5,265.80		5,265.80						5,265.80	07.00
Interior Paint Scrape/Prep	2,809.00		2,809.00		1,750.00		1,750.00	62.30	1,059.00	87.50
Equipment	2,247.20		2,247.20		750.00		750.00	33.37	1,497.20	37.50
Dumpster/Landfill	421.35		421.35		100.00		100.00	23.73	321.35	5.00
Temporary Toilets	1,411.20		1,411.20		250.00		250.00	17.72	1,161.20	12.50
General Labor/Cleaning	1,123.60		1,123.60		350.00		350.00	31.15	773.60	17.50
Temporary Construction General Materials	2,253.90		2,253.90		500.00		500.00	22.18	1,753.90	25.00
Bond Fees	6,741.60		6,741.60	6,741.60			6,741.60			337.08
Description of Work	Scheduled	Changes	Contract	Previous	Current Comp.	Stored Mat.	Total Comp.	%	Balance	Retained

RESOLUTION #2023-XX

RESOLUTION ADOPTING THE

IOWA STATEWIDE URBAN DESIGN STANDARDS FOR PUBLIC IMPROVEMENTS AND THE IOWA STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS MANUALS

WHEREAS, it is recommended by the City Engineer that the City adopt the <u>Iowa Statewide Urban Design Standards for Public Improvements</u> and the <u>Iowa Statewide Urban Standard Specifications for Public Improvements</u> manuals, and;

- WHEREAS, from time to time the City Engineer will develop supplemental specifications to modify these design standards and construction specifications, and;
- WHEREAS, these design standards and construction specifications, along with the supplemental specifications, will be used to design and construct public improvements within the City, and;
- WHEREAS, it is the opinion of this City Council that it would be in the best interest of the City of Riverside to adopt said design standards and construction specifications.
- NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Riverside, Iowa that the most recent published editions of the <u>Iowa Statewide Urban Design Standards for Public Improvements</u> and the <u>Iowa Statewide Urban Standard Specifications for Public Improvements</u> manuals are hereby adopted by the City of Riverside, Iowa.

Roll Call: Sexton, McGuire, Schneider, Kiene,	Mills
Ayes:	
Nays:	
PASSED AND APPROVED by City Council September, 2023.	of Riverside, Iowa, on this 5th day of
Signed: Tom Sexton, Mayor Pro Tem	Date
Attest: Becky LaRoche, City Clerk	Date



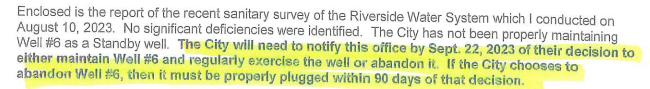


August 23, 2023

ATTN BECKY LAROCHE CITY CLERK RIVERSIDE CITY OF CITY HALL BOX 188 RIVERSIDE, IA, 52327

Subject: RIVERSIDE WATER SUPPLY Sanitary Survey
Public Water Supply ID # IA9260090

Dear Attn: Honorable Mayor and Council:



The City will also need to submit a copy of the lead and copper sampling plan with the tiers and selection criteria indicated for each of the lead and copper sampling sites by Sept. 22, 2023.

Several other minor deficiencies, requirements, and recommendations are summarized at the end. You must take action to correct the minor deficiencies and the requirements. You are encouraged to address the recommendations as time and budget allows.

If you have any questions about the inspection or report, please contact me at 319-653-1845 or jon.ryk@dnr.iowa.gov.

The cooperation and assistance of Steven Kramer and Steve Robinette in completing this survey was appreciated.

Sincerely,



Digitally signed by Jon Ryk Date: 2023.08.23 09:19:30

JON RYK

Environmental Specialist, FIELD OFFICE #6

Enclosure(s): 1) Sanitary Survey Report

c: Water Supply Operations (w/encl. 1 via email: pwsrecords@dnr.iowa.gov)
Steven Kramer (w/encl. 1 via email: skramer@peopleservice.com)
Steve Robinette (w/encl. 1 via email: srobinette@peopleservice.com)
FOCD – Riverside Water System #9260090

	PUBLIC WATE	R SUPPLY INFORMATION		
Processing and the second seco	NAME: RIVERSIDE WATER SUPPLY	PWS CLASSIFICATION: Community		
	ADDRESS: RIVERSIDE, CITY OF CLERK, CITY HALL BOX 188, RIV	Y PHONE: 319-648-3501		
SYSTEM	RESPONSIBLE AUTHORITY/OWNER: RIVERSIDE, CITY OF			
H	ADDRESS: RIVERSIDE, CITY OF CLERK, CITY HALL BOX 188, RIV	OF, ATTN BECKY LAROCHE CITY PHONE: 319-648-3501		
	TREATMENT GRADE: WT2	DISTRIBUTION GRADE: WD	2 WATER USE PERMIT #: 3430-R5	

SOURCE/ENTRY	SDWIS NAME:	DESCRIPTION/PHYSICAL LOCATION:
POINT	S/EP FROM WELLS #7 & #8	3126 Highway 22, Riverside, IA 52327

RESPONSIBLE NAME:	WT GRADE:	WD GRADE:	CERTIFICATION #:
OPERATOR(S) STEVEN ROBINETTE	WT-4	WD-4	6197

		SURVEY INFORMAT	TION	
SURVEY	DATE THIS SURVEY: 8/10/2023	DATE LAST SURVE 12/28/2020	EY:	PURPOSE: Routine Sanitary Survey
PERSON INTERVIEWED	NAME: Steven Kramer Steve Robinette		TITLE: Operator Operator in Charge / I Peoples Services	Regional Manager -
CONSUMPTION	Period Reviewed: AVERAGE DAILY 12/28/2020 to 8/10/2023 USE (MGD): 0.164		MAXIMUM DAILY USE (MGD): 0.882	PE @100 GPCD: 1640
POPULATION	TOTAL NUMBER OF SERVICE CONNECTIONS: 520		POPULATION OUTSIDE CORPORATE LIMITS: 0	
SERVED	CENSUS POPULATION: 1060		TOTAL POPULATION SERVED*: 1060	
	MILES OF PIPE: 0			

^{*}equals census pop. + population outside corp. limits(2.5 X # of service connections or actual pop.)

SURVEY INFO	RMATION
	ORGANIC CHEMICAL PHYSICAL VULNERABILITY (SW/IGW SYSTEMS ONLY): No
	ORGANIC PHYSICAL VULNERABILITY (GW SYSTEMS ONLY): No

	AUTHENTICATION	
INSPECTOR	NAME/TITLE: JON RYK Environmental Specialist Digitally signed by Jon Ryk Date: 2023.08.23 09:19:02 -05'00'	DATE:
REVIEWER	NAME/TITLE: AARON PICKENS Aaron Pickens Date: 2023,08.23 09:07:03 -05'00' Environmental Specialist Senior	DATE:

General Description

The Riverside public water supply derives its water from two wells, Well #7 (2006), and Well #8 (2006). Treatment consists of the following:

- Antiscalant injection (required for reverse osmosis)
- Prefiltration with bag filters and cartridge filters (required for reverse osmosis)
- Reverse Osmosis (RO): 3 Skids:

Each skid has nine cartridges. The water is first sent through the first six cartridges utilizing a variable frequency drive (VFD) pump. The reject water from the first six cartridges is then sent to the remaining three utilizing a second VFD pump. The reject water from there is sent to waste. RO filtered water is then blended with raw water. The system cycles such that two skids are running at one time and the skid that is cycled off alternates each time. The pumps associated with the reverse osmosis system are referred to as the Treatment Plant Pump Station (PF01). The pump station for the reverse osmosis system consists of a total of six vertical in line pumps. There are two pumps per skid as indicated above. The first pump sends the water through the first six cartridges. The reject water from the first six cartridges is then sent to through the remaining three cartridges via the second pump. The pumping capacity through each of the skids is 301 gallons per minute (gpm)

- Blended phosphate addition (for iron and manganese sequestration and corrosion control)
- Fluoride addition (via hydrofluorosilicic acid injection)
- Chlorination (for disinfection) via sodium hypochlorité solution
- Aeration (for pH adjustment/degasification)
- o Detention (in 500,000 gallon clearwell)
- Sodium hydroxide injection at the clearwell (for pH adjustment)
- Chlorine injection at clearwell (if necessary)
- Post-clearwell chlorination (if necessary)

The treated water in the clearwell is then pumped to the distribution system and a 250,000 gallon elevated storage tank (EST) via four high service pumps with a rated capacity of 850 gpm each for a total pumping capacity of 3400 gpm. These 4 pumps are identified as Pump Station #1 (PF02). The 250,000 gallon EST provides storage and distribution system pressure.

Note:

1. The system has an emergency or restricted use well, Well #6 (1973). This well serves treatment plant #1 (TP01). Both Well #6 and Treatment Plant #1 (TP01) are indicated on the water supply operations permit as being in standby mode. However, the well has not been maintained and routinely run as a standby well.

The distribution system has ~520 service connections and serves a population of 1060.

1. Sources

- A Source Water Protection Plan has been developed but not implemented. Please contact Matt Dvorak, Source Water Protection Coordinator, via email at matthew.dvorak@dnr.iowa.gov or telephone 515-725-8468 or Iowa Rural Water Association at 641-787-0330 for assistance with updating or fully implementing the plan.
- It is recommended that the water system obtain an interconnection agreement with a separate public water supply or develop an emergency plan for supplying water during outages. An emergency plan should be updated annually.
- The water supply has their Well #8 (WL04) out of service at this time. The total developed groundwater source capacity, unless otherwise specified by the reviewing authority, shall equal or exceed the design maximum day demand with the largest producing well out of service.

[Recommended Standards for Water Works 3.2.1.1]

- Weil #6 Standby (WL02) and Well #7 (WL03) No physical protection from damage was observed immediately around the upper terminus of these wells. While Well #7 was located in the fenced in area around the treatment plant there was no protection immediately around the upper terminus of the well. Recommended Standards for Water Works 3.2.4.10.e requires that the upper terminal of the well be protected from physical damage.
- Well #6 Standby (WL02) Recommended Standards for Water Works 3.2.5.4 requires the owner of
 each well to retain all records pertaining to the well until the well has been properly abandoned. It is
 recommended that the system obtain a copy of the well construction log.
- Well #6 Standby (WL02) The system has not been maintaining Well #6 and regularly exercising the well. All standby or restricted use sources must be adequately maintained to prevent degradation of the groundwater. The pump must be routinely exercised to ensure the source remains viable. A well not being maintained properly or not exercised regularly shall be considered abandoned. Wells that meet the definition of an abandoned well (no longer in use or in such disrepair that continued use is unsafe or impractical) must be plugged in accordance with Chapter 567 IAC 39 within 90 days of abandonment. Notify this office of the system's decision to maintain the well and routinely exercise the pump or provide a timeline to properly plug the well.
- Well #7 (WL03) and Well #8 (WL04) An adequate alarm system should be provided in the event of well pump failure.

2. Treatment

- Plant #1 (Well #6) Standby (TP01) All standby treatment plants (temporarily taken out of service with the expectation of being returned to service at a future date) must be adequately maintained to prevent degradation of the equipment and ensure reliable operation.
- PLANT #2 (WELLS #7 & #8) (TP02) The system was not keeping a 10 mg/L free chlorine residual in the stock phosphate solution tank. Stock phosphate solution must be kept covered and chlorine shall be applied to the phosphate solution in sufficient quantity to give an initial residual of 10 mg/L free chlorine residual. A residual must be maintained in the solution at all times. [567 IAC 42.4(3)*b*(2)]
- PLANT #2 (WELLS #7 & #8) (TP02) Recommended Standards for Water Works 5.4.7.b states that
 secondary control systems for fluoride chemical feed devices shall be provided as a means of reducing
 the possibility for overfeed; these may include flow or pressure switches or other devices.
- PLANT #2 (WELLS #7 & #8) (TP02) Hand pumps may not be provided for transfer of fluorosilicic acid from a shipping container. [Recommended Standards for Water Works 5.1.11]
- PLANT #2 (WELLS #7 & #8) (TP02) According to the operator, the system is not doing routine
 maintenance on the reverse osmosis system at the appropriate frequency. Routine maintenance
 following the manufacturer's instructions is recommended to protect and prolong the life of the
 treatment unit.
- PLANT #2 (WELLS #7 & #8) (TP02) It is recommended that a schematic of the treatment plant be developed and updated as changes to the treatment process occur.
- PLANT #2 (WELLS #7 & #8) (TP02) The sodium hydroxide and sodium hypochlorite storage tanks
 did not have the NSF certification on the label. Subparagraph 567 of the lowa Administrative Code
 42.4(3)"b" and Recommended Standards for Water Works 2.21 requires the use of water treatment
 chemicals that have been certified to ANSI/NSF Standard 60.

 PLANT #2 (WELLS #7 & #8) (TP02) - It was noted that some of the injection lines that were not labeled near the injection point or were such that the label was not easily seen. It is recommended that all piping and chemical feed lines be labeled and color coded according to Recommended Standards for Water Works 2.14 and 5.1.12.

PLANT #2 (WELLS #7 & #8) (TP02) - The antiscalent used is diluted on a 1:1 basis but there was no
indication on the container and no written SOP for the dilution. It is recommended that Standard
Operating Procedures (SOP) be written and periodically reviewed for mixing and/or dilution of chemicals.

3. <u>Distribution System</u>

- 950 Leaks in the water distribution system result in economic losses and create a public health risk. Risk to public health can be caused by contaminants entering the pipe through leak openings if water pressure in the distribution system is lost. While water audits provide an overall view of water losses and identify areas of the distribution system having excessive leakage, leak-detection surveys determine the exact location of leaks by use of sophisticated listening devices and noise correlators.
- 950 There shall be no connection between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the distribution system. It is recommended that the system conduct annual inspections to identify cross-connections within the distribution system. The EPA's Cross-Connection Control Manual (available via the internet) may be helpful in establishing an inspection program. [Recommended Standards for Water Works 8.10.1]
- 950 The minimum size of water main which provides for fire protection and serving fire hydrants shall be six-inch diameter. The minimum size of water main in the distribution system where fire protection is not to be provided should be a minimum of three inch diameter. When fire protection is provided, it should be limited to segments of the distribution system that are served with adequately sized piping between the point of use and the treatment plant and in accordance with the requirements of the State Insurance Services Office. [Recommended Standards for Water Works 8.2.2 and 8.2.3]
- 950 It is unknown if there are lead service lines and/or lead goose necks in the distribution system; these sources are known to be one of the major contributors to high lead levels in finished water delivered to customers. Efforts should be taken to replace these as they are discovered.

4. Finished Water Storage

- The 500,000 gallon clearwell (ST02) does not have a regular frequency for cleaning and inspection. It is recommended that the interior of the storage structure be inspected at least every two years.
- ST02 Some of the overflow pipes on the clearwell terminated greater than 24 inches above the ground surface. Overflow pipes on all water storage structures shall be provided with an overflow which is brought down to an elevation between 12 and 24 inches above the ground surface. [Recommended Standards for Water Works 7.0.7]. The facility should consider bringing all overflow pipes down to an elevation that terminates between 12-24 inches above ground surface to ensure compliance with design standards.
- ST02 It was noted that the access openings to the clearwell were not elevated to at least 24 inches above the roof structure. Each manhole on a ground level or flat roof structure shall be elevated at least 24 inches above the top of the tank or covering sod, whichever is higher. [Recommended Standards for Water Works 7.0.8.2]. The facility should consider raising the access to the proper height to ensure compliance with design standards.
- ST02 It was noted that the access hatches for the clearwell did not overlap the access frame and
 extend downwards. Each access manhole on a ground level or flat roof structures shall be fitted with a
 solid water tight cover which overlaps a framed opening and extends down around the frame at least
 two inches. The frame shall be at least four inches high. Each cover shall be hinged on one side, and

shall have a locking device. [Recommended Standards for Water Works 7.0.8.2] The facility should consider installing a proper lid/hatch to ensure compliance with design standards.

5. Pumps, Pump Facilities and Controls

There are no deficiencies or recommendations to report based on observations made at the time of this survey.

6. Monitoring, Reporting and Data Verification

- The lead and copper sampling plan for the water supply did not indicate the tiers and selection criteria for each of the lead and copper sampling locations. Subrule 567 IAC 41.4(1) requires lead and copper sample sites to be selected according to a three-tiered selection process. The sampling plan must be updated to include as many Tier 1 sample sites as practical based on the materials evaluation. Keep the materials evaluation survey with your records and update it as work is done in the system and new information is found on buried water lines, or when lines are replaced. This will help you in the future when new sites are needed.
- On December 22, 2021, EPA released the final Lead and Copper Rule Revisions (LCRR). This was a significant effort by the Agency over the past decade to revise the 1991 Lead and Copper Rule (LCR). One of the revisions to the LCRR includes requiring water systems to identify and make public the locations of lead service lines. The lead service line inventory must be completed and submitted to the lowa DNR by October 16, 2024. Additional information regarding development of the lead service line inventory and Iowa DNR's lead service line inventory template can be found at https://www.iowadnr.gov/Environmental-Protection/Water-Quality/Drinking-Water-Compliance/Lead-Service-Line-Inventories. For technical assistance regarding lead service line inventories you may also contact Iowa Association of Municipal Utilities via email at: leadserviceline@IAMU.org.

7. Water System Management and Operations

- The water supply has a 550 kW backup generator. 550 kW corresponds to a breaking horsepower of about 737. An internal combustion engine with a brake horsepower rating of greater than 400 measured at the shaft must apply for a construction permit from the lowa DNR's Air Quality Bureau. For the purposes of this rule, the manufacturer's nameplate rating at full load shall be defined as the brake horsepower output at the shaft. [567 IAC 22.1(2)"r"] OR An internal combustion engine with a brake horsepower rating less than 400 measured at the shaft and installed after 3/18/2009, must submit the registration form for the engine. [567 IAC 22.1(2)]
- The backup power source should be tested periodically for functionality and kept in good condition. It is recommended that the backup power source be tested under load to ensure it will perform as needed in the case of an emergency.
- The Iowa DNR recommends water management contact a technical assistance provider to review water rates. Assistance in budgeting and rate setting is available through the Iowa Association of Municipal Utilities or Iowa Rural Water Association at no cost.
- It is recommended that water system management develop and implement an Operation Succession Plan to ensure identification of an operator-in-charge in the event of retirement. The Water Supply Operation Permit requires all water systems to have an adequate number of properly trained and knowledgeable operators for the efficient operation and maintenance of the system. An Excel spreadsheet that helps operators consolidate system information into one location, enabling increased organization and coordination among operators, can be found at https://www.epa.gov/dwcapacity/interactive-tools-owners-and-operators. This spreadsheet is designed to assist in personnel transition.

8. Operator Certification Compliance

RIVERSIDE WATER SUPPLY
PWSID #: IA9260090

There are no deficiencies or recommendations to report based on observations made at the time of this survey.

Summary of Significant Deficiencies

There are no significant deficiencies to report based on observations made at the time of this survey.

Summary of Winor Deficiencies

- 1. Well #6 has not been adequately maintained as a standby well and regularly exercised. Adequately maintain all standby or restricted use sources. [567 IAC Chapter 39]. The City must notify this office by the date indicated on the cover letter of this report of their decision to either maintain Well #6 as a standby well and regularly exercise the well or properly plug it. Wells that meet the definition of an abandoned well (no longer in use or in such disrepair that continued use is unsafe or impractical) must be plugged in accordance with Chapter 567 IAC 39 within 90 days of abandonment.
- Use a pump to transfer fluorosilicic acid from a shipping container to a storage tank. Hand pumps may not be provided for transfer of fluorosilicic acid from a shipping container. [Recommended Standards for Water Works 5.1.11]
- 3. Add chlorine to the phosphate solution to provide a free residual of 10 mg/L and maintain a residual in the solution at all times. [Recommended Standards for Water Works 4.8.6]
- 4. Provide a secondary control system for fluoride chemical feed devices as a means of reducing the possibility for overfeed; these may include flow or pressure switches or other devices. [Recommended Standards for Water Works 5.4.7.b]
- 5. Develop a lead and copper sampling plan in accordance with Subrule 567 IAC 41.4(1). Specifically, the tiers and selection criteria need to be added to the existing lead and copper sampling plan. The City must submit a revised lead and copper sampling plan by the date indicated on the cover letter of this report with tier and selection criteria added.
- Ensure all water treatment chemicals have been certified to ANSI/NSF Standard 60. [Subparagraph 567 of the Iowa Administrative Code 42.4(3)"b" and Recommended Standards for Water Works 2.21]

Summary of Requirements

1. Based on the estimated braking horsepower of the emergency generator, it would require an air quality construction permit. Contact Iowa DNR's Air Quality Bureau to obtain a construction permit for the auxiliary power source. [567 IAC 22.1(2)"r"]

Summary of Recommendations

- Obtain an interconnection agreement with a separate public water supply or develop an emergency plan for supplying water during outages.
- 2. Provide an adequate alarm system in the event of well pump failure.
- 3. Develop a schematic of the treatment plant and keep it updated as changes to the treatment process occur.
- Contact a technical assistance provider to review water rates.
- 5. Ensure water mains are sized appropriately where fire protection is provided. [Recommended Standards for Water Works 8.2.2 and 8.2.3]

- Conduct annual inspections to identify cross-connections within the distribution system. The EPA's Cross-Connection Control Manual (available via the internet) may be helpful in establishing an inspection program. [Recommended Standards for Water Works 8.10.1]
- 7. Implement a leak detection survey program.
- 8. Perform routine maintenance on the membranes at appropriate frequencies recommended by the manufacturer.
- 9. Inspect the finished water storage structure(s) at least every two years.
- Develop written Standard Operating Procedures (SOP) for mixing chemicals and keep them updated as conditions in the treatment process change.
- 11. Implement a leak detection program or perform a more comprehensive water audit to better assess and understand the occurrence of water and revenue losses.
- 12. Develop and implement an Operation Succession Plan.
- 13. Protect the wells from physical damage. [Recommended Standards for Water Works 3.2.4.10.e]
- 14. Modify the overflow on the ground-level storage tank so the outlet is at an elevation between 12 and 24 inches above the ground surface. [Recommended Standards for Water Works 7.07]
- 15. Elevate each manhole on a ground level or flat roof structure at least 24 inches above the top of the tank or covering sod, whichever is higher. [Recommended Standards for Water Works 7.0.8.2]
- 16. Obtain a copy of the well construction logs. [Recommended Standards for Water Works 3.2.5.4]
- 17. Implement the Source Water Protection Plan.
- 18. Ensure total developed groundwater source capacity is equal to or exceeds the design maximum day demand of the water system. [Recommended Standards for Water Works 3.2.1.1]
- 19. Ensure all piping and chemical feed lines are identified and color coded according to Recommended Standards for Water Works 2.14 and 5.1.12.
- 20. Fit each access manhole on a ground level or flat roof water storage structure with a solid water tight cover which overlaps a framed opening and extends down around the frame at least two inches. The frame shall be at least four inches high. Each cover shall be hinged on one side, and shall have a locking device. [Recommended Standards for Water Works 7.0.8.2]

Summary of Reminders

- 1. Efforts should be taken to replace lead service lines and lead goose necks as they are discovered.
- 2. Disinfection residuals were sampled during this sanitary survey and discussed with the operator. At the SEP, the free chlorine was 3.1 mg/L and the total chlorine was 3.2 mg/L. Based on those values it appears the water supply is using free chlorine as the disinfectant.
- 3. Complete the lead service line inventory and submit it to the Iowa DNR by October 16, 2024.





Service Report

REF: Job# 23-2617C Inspection/Evaluation of RO Trains

Riverside Water Treatment Plant

3126 Hwy 22 Riverside, IA 53572

Attn: Steve Kramer w/PeopleService Inc.

PH: (319) 721-1825

EM: skramer@peopleservice.com

Service Report Summary:

6/12/2023- Due to a flight delay out of Sarasota, FL, I was unable to make my connection in Charlotte, NC to Cedar Rapids, IA. I was rescheduled for a flight to Cedar Rapids the next morning, 6/13/23. I contacted Steve Kramer and informed him I would be arriving at the Riverside WTP between 2 PM-3 PM on 6/13/23.

6/13/2023- Arrived on-site by 2:45 PM.

Met with Steve Kramer, Dave Schechington-Engineer w/ Veestra & Kimm and two (2) personnel with the City of Riverside. Asked Steve if he had the lab analysis results on the raw well water, post-filtered water, and the permeate water samples that I requested he should perform before this trip. At this time, the lab analysis results were not completed. (NOTE: During the time of completing this service report, Steve received the lab analysis results, and I have included copies within this report as reference.)

Asked Steve if he could provide some history about the operation, data logs and maintenance conditions on the three (3) RO trains, while we performed a walk-through inspection of the entire RO WTP process system(s). Steve stated that they have two (2) raw water wells, #7 and #8. Well #3 is currently down for valve and piping repairs, and they are operating on well #7 only. Well #7 was last serviced in Dec 2021 and well #8 was last serviced in May 2023 per Steve's knowledge of past maintenance records. The 10-micron bag filters in series flow to the 5-micron melt blown cartridge prefilters on the raw well water have been consistently fouling, from monthly replacement to currently bi-weekly replacement. The RO trains used to require membrane cleaning every 6-8 months and currently require cleaning by 2-3 weeks. After performing a membrane cleaning, Steve observed that each of the RO trains would produce slightly higher permeate flow, yet the RO trains would revert back to the prior fouled state within 1-3 weeks of operation. RO #1 train seems to foul faster within 1-2 weeks after cleaning.



310 Center Court Venice, FL 34285 P: (941) 488-9671 | F: (941) 488-9400 mainoffice@harnrosystems.com

Picture of the three (3) RO Trains



RO #1 Train (Left Side)

RO #2 (Center)

RO #3 (Right Side)

Upon completing the system walk-through inspection, Steve showed me the condition of a recently replaced 10-micron bag filter and a 5-micron melt blown poly cartridge filter installed on the raw well water pretreatment. Both types of filters were heavily fouled with brownish-colored cake-like sediment, indicating possible iron, iron sulfate and/or iron-reducing bacteria fouling from the wells. I took a small sample of the brownish sediment out of the used bag filter and performed a basic acid (HCL) solution test on it. The sediment quickly dissolved within the test vial. This is a good indication that the foulant could be removed from the RO membranes with proper use of acid and caustic chemical cleaning solutions.

Raw well water testing results performed on-site:

Water hardness: 22 GPG or 376 PPM

Conductivity: 564 uS

pH: 7.5

Temp: 61 F or 16 C Color: Slight tint

ORP: -90 mV (Void of any Oxidation Reducing Potential oxidants)

I did not have an iron test kit with me, and Steve stated he has performed iron tests on the raw well water with results up to 2-3 PPM.



10 Micron Bag Filter



5 Micron Cartridge Filter



Acid Test on Bag Filter Foulant





Asked Steve to start up RO #1 train only, so I could evaluate the current operating conditions of a single RO train. Observed permeate water spraying out of the 4" sch80 PVC vertical pipe where it is glued into the tee on the 6" sch80 PVC permeate header piping. After observing the residual brown stains on the RO #1 pressure vessels and the piping directly below the leaking permeate pipe, I would conclude that iron residual has been passing through the RO membranes into the final permeate. The 1st stage pump VFD setting was set at 55 hertz and the 2nd stage booster pump VFD setting was at 55 hertz. The total permeate flowmeter indicated 134 GPM, 1st stage permeate flow was calculated at 106 GPM, 2nd stage permeate flowmeter indicated 28 GPM, and concentrate flowmeter indicated 131 GPM. Total flow into RO #1 train was calculated at 265 GPM. (NOTE: Data readings are recorded on the RO Data Logs included with this report.)



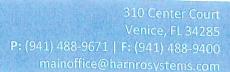
RO #1 Train- 4" sch80 PVC Permeate pipe into the 6" sch80 PVC Common Permeate Heading pipe is cracked at the Tee insert.

(NOTE: The RO trains do not have a flowmeter installed on the 1^{st} stage permeate lines.) To determine the 1^{st} stage permeate flowrate per RO Train, you use the total permeate flowmeter reading and subtract the 2^{nd} stage permeate flowrate reading, to calculate the 1^{st} stage permeate flowrate.

Each RO train is designed to produce a total permeate flowrate of 226 GPM with concentrate flowrate set at 75 GPM. Per the RO design projections, the 1st stage permeate flowrate should be 157 GPM, 2nd stage permeate flowrate should be 69 GPM, concentrate flowrate should be 75 GPM, and total permeate flow should be 226 GPM. This is based on operating at 75% recovery at 98% rejection and is dependent on changes to the feedwater conditions.

RO #1 train is currently operating at 50.6% recovery at 97% rejection. Both the $1^{\rm st}$ and $2^{\rm nd}$ stage membranes are extremely fouled with the $2^{\rm nd}$ stage membranes possibly compacted to the point that a membrane cleaning may not restore the membranes back to acceptable % rejection.

RO #2 train was started next and I observed similar operational conditions and data readings as with RO #1 train. The 1st stage pump VFD setting was at 55 hertz and the 2nd stage booster pump VFD setting was at 55 hertz. The total permeate flowmeter indicated 130 GPM, 1st stage permeate flow was calculated at 114 GPM, 2nd stage permeate flow indicated 14 GPM, and concentrate flowmeter indicated 131 GPM. Total flow into RO #1 train was calculated at 261 GPM.





I recorded the current operating data, performed water testing, took pictures, and inspected the conditions of the mechanical and electrical components on RO #1 and RO #2 trains. (NOTE: RO #3 was not started up at this time. Steve confirmed to me that the condition and operational data on RO #3 was similar to the operational data I recorded on RO #1 and RO #2.)

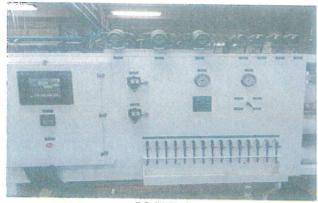
Dave Schechington asked if I would look at some of the piping issues with him. He asked about lowering the overhead well water feedwater piping into the bag filter housing, relocating the conductivity and pH sensors installed into the overhead final permeate-raw water blending pipe line, the raw well water pre-flush pipe lines and about additional support brackets or braces needed on the piping. I offered recommendations based upon my 40 years of experience working on water treatment systems.

I informed Steve and Dave that I had another customer issue scheduled for tomorrow, but I could come back on Thursday 6/15/23. They both agreed, and we left the site by 7 PM.

6/15/2023- Arrived on-site by 2:00 PM.

Met with Steve, Dave and one additional City of Riverside employee. RO #1 and RO #2 train were both operating. I reviewed the RO design projections with Steve and asked if we could make some adjustments on the RO trains.

Started on RO #1 by first adjusting the VFD (55) hertz setting down on the 2nd stage booster pump per the RO HMI touchscreen panel. The HMI touchscreen responded with the new setting I entered at 30 Hz, and we both observed the 2nd stage booster pump slow down and applied pressure decrease into the 2nd stage array. I then made adjustments to the manual concentrate control valve to reduce the concentrate flow down to 80 GPM. Allowed the RO #1 to settle for a few minutes and readjusted the 2nd stage booster pump setting down to 20 Hz. Made a slight increase adjustment on the 1st stage pump to 57 Hz and allowed the RO train to settle. The adjustments I made by lowering the pressure into the 2nd stage membranes are a temporary aide to reduce the over-fluxing through the 2nd stage membranes likely caused by scaling and compaction of foulants, which has greatly reduced the available membrane surface area.



RO #1 Train



Performed the same adjustments on RO #2, and found the RO HMI touchscreen hertz setting for the 2nd stage booster pump was non-responsive. It would display on the HMI touchscreen, yet the 2nd stage booster pump motor would not respond to the new setting command. Checked the VFD main controller within the MCC room and found the actual hertz setting was at 57 Hz. We adjusted the VFD main controller setpoint to 20 Hz and observed the 2nd stage booster pump motor respond to the lower hertz command. However, the hertz setting displayed on the RO HMI touchscreen did not change. I manually entered in 20 Hz on the RO #2 HMI touchscreen for reference only. This issue will require trouble-shooting (performed by others) on the VFD (SCADA System) located within the MCC room to the RO trains. The adjustments I made by lowering the pressure into the 2nd stage membranes are a temporary aide to reduce the over-fluxing through the 2nd stage membranes likely caused by scaling and compaction of foulants, which has greatly reduced the available membrane surface area.



RO #2 Train

Inspected RO #3 train (not operating at this time) with Steve and he pointed out known issues with the mechanical or instrumentation components on the system. I took pictures and recorded the issues.



RO #3 Train





Inspected the cleaning skid for the RO membranes. Overall, the cleaning skid and chemical mixing solution tank are in good condition. I observed with power "ON" to the control panel that the disconnect switch, the HOA switches, and the indicator lights were all operational. Steve informed me that the flowmeter and heaters are still operating properly.



CIP SKID FRT



CIP BACK END

Inspected the feedwater/total permeate monitoring & sampling panel located under the raw feedwater piping lines. Due to the piping leaks above the panel, all of the LCD screens on the water quality monitors are not working and need to be replaced. The NEMA 4X Digital pressure monitors are working and indicating close to the Analog pressure gauges. They should be cleaned, tested and re-calibrated. The differential pressure monitors are in fair shape, mainly staining on the 316SS top cover plates. They should be cleaned and fully tested. The FRP panel is in good condition and the stains could be removed with proper FRP-approved cleaners.



Feedwater/Total Permeate Monitoring & Sampling Panel





Inspected the feedwater bag filter housings and cartridge filter housings. Steve informed me that the bag filter #1 directly off the Y-pipe fitting was loading up faster than the bag filter #2. He has seen a similar loading-up issue with the "center" cartridge filter housings downstream of the bag filter housings. Overall, the housings are in good condition. Mostly, staining and minor drips from some connections.

NOTE: Any leaks will allow air to enter into the system which will cause dissolved iron to oxidize.

Reviewed my inspection with Steve and we left the site by 6:30 PM.



10 Micron Bag Filter Housings



5 Micron Cartridge Filter Housings

RO Trains and Associated Systems Pictures During the Inspection



RO #1 FRT END



RO #1 BACK END



RO #2 FRT END



RO #2 BACK END



RO #3 FRT END



RO #3 BACK END



WELL WATER FLUSH



RO TRAINS COND & PH





Recommendations:

Per my observation of the fouled bag and cartridge pretreatment filters, I would conclude that iron and possibly iron-reducing bacterial directly from the well (feedwater) source is being introduced to air within the well and/or the well water piping lines. Based on the results of the lab analysis performed on the raw well water sample, iron is present a 1.7 PPM. Per recent communication with Steve, he informed me that additional testing was performed on well #7 and confirmed iron-reducing bacteria is present.

Based on inspection/evaluation of the three (3) RO trains, I would conclude that the RO membranes are severely fouled and possibly compacted beyond the benefit of performing additional membrane cleanings. To confirm this conclusion, I would recommend selecting one of the RO trains for membrane testing and analysis on the foulants. This requires removing four (4) membranes from a RO train. On the 1st stage array, one (1) membrane is pulled from the feed side and one (1) membrane is pulled from the concentrate side. On the 2nd stage array, one (1) membrane is pulled from the feed side and one (1) membrane is pulled from the concentrate side. The membranes are labeled per RO train, pressure vessel number, serial # and position removed from the pressure vessel. The membranes need to be bagged and sealed, then shipped out for testing and analysis on the foulants. Based on the results of the membrane testing and analysis on the foulants, you will be able to confirm if the membranes can be restored to design specifications per chemical cleaning, or if the membranes should be replaced with new membranes.

Overall condition, (structural, mechanical and electrical) of the RO trains is "Good". Except for the major leak on RO #1 permeate line teed into the common permeate header piping, some minor drips were observed on RO end caps and piping fittings. The RO pump/motors are working respectfully, although there is the issue(s) with the VFD hertz setpoint on the RO HMI touchscreen panel(s) not working and/or not reading accurately. Observed a couple of the digital flow and pressure transmitter/monitor(s) flickering ON/OFF. Analog pressure gauge(s) per the selector valve are functioning well. The older model conductivity monitors with LCD screens on each of the RO trains are not able to display and will need to be replaced with new model LED screens.

I would like to thank Steve and Dave for their assistance during the inspection. I enjoyed meeting both of you.

Sincerely,

Keith Summerford

Keith Summerford, CWS-V Service Coordinator Komline-Harn RO Report Completed 7/18/2023



An "Action List" has been created to enhance and summarize this report.

Action List

Existing Items:

- 1. Based on the results of the current well water laboratory analysis and additional testing confirming the presents of Bacterial Iron, a certified well drilling/pump company should be used to perform disinfection of the well and to inspect the well(s) casing, well screen, annular seal and well cap. The submersible pump should be fully inspected including the check valve, fittings, isolation valves and the piping for any damage or leaks. Hydraulic testing should be performed on the entire feedwater piping lines for locating any leaks. Testing should be performed to determine if air is being drawn into the feedwater piping after the well pump is turned off and if air is being drawn into the feedwater piping when the well pump is operating.
- Well water samples should be re-taken for testing by a certified water testing laboratory along with bacterial tests performed. After confirming no iron bacteria is present, proper measures should be performed to disinfect and flush clean all of the feedwater piping from the well(s) through the two (2) pre-filter housings. (Do allow disinfection (oxidants) to enter the RO Trains, the RO trains must be isolated (valved off) during the feedwater piping disinfection period.) The RO trains require the use of non-oxidizing chemicals for disinfecting and cleaning in order to not damage the RO membranes.)
- 3. Hydraulic testing should be performed after any modifications and/or repairs are performed on the feedwater piping and the common final permeate header piping lines. Disinfection of the feedwater and final permeate piping lines should be performed after any modifications and/repairs are completed.
- 4. The VFD controllers within the MC room should be inspected and tested by a company qualified in VFDs, instrumentation and control loops.
- 5. One of the RO trains should be selected for membrane testing and analysis on the foulants. Upon results of the membrane testing, Harn R/O will assist you with determining if membrane cleaning will be effective or replacing the membranes is required.
- 6. Exterior cleaning of the RO trains should be performed in order for the operators to easily locate the source of water leaks and to perform repairs within a timely manner.

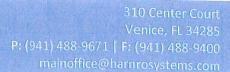




New Items:

- 1. The Yokogawa digital flow and pressure transmitters/monitors on all three (3) RO trains and on the remote prefilter monitoring panel need to be tested and calibration.
- 2. The McDaniel analog pressure gauges on all three (3) RO trains and on the remote prefilter monitoring panel need to be tested and calibration.
- 3. The LCD display screens on all of the older model Yokogawa conductivity and pH LCD controllers/monitors do not display and require replacement. All pH sensors require replacement. All conductivity sensors need to be cleaned, tested and calibrated. If a conductivity sensor fails calibration testing, the sensor will need to be replaced.
- 4. All instrumentation and PLC-HMI controls should be inspected and tested on the RO trains. Test and confirm HMI touchscreens are fully functioning per SCADA interface loop to the MCC room.
- 5. Per results of the membrane testing, membrane cleaning or membrane replacement is required.
- 6. All RO train pump motors should be tested for voltage and amperage draw. Motor bearings should be lubricated per the manufacturer's recommended maintenance schedule and the pump mechanical seals checked daily or weekly for any water leaks.
- 7. Recommend operators have a Myron-L Ultrameter 6PIIFCE and a Silt Density Index (SDI) test kit for performing daily or weekly water quality testing on the RO trains.

Per your request, Harn R/O would be please to provide a quote on parts and services per the above list of recommended "New Items".

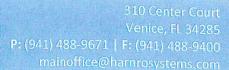




DATA LOGS PERFORMED On RO #1 and RO #2 TRAINS

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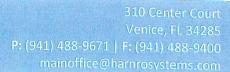




LABORATORY ANALYSIS-CURRENT RESULTS

THE IIII INIVERSITY OF IOWA	STATE HYGIENIC LABORATORY		ANALYTICAI	REPOR	RT	1-800-421-1OWA (4692
Collection Locali Well #7 water		Collector and Phone kramel steven 319/721-1820	Client Reference		Accession # 2290228	The second secon
RIVER SIDE		Collected 2023-06-07 13:40	Received 2023-06-07 1	5:20	Project	
					Sample Description	
Report To	PEOPLE SERVICE				Sample Type Drinking Water	The state of the s
Rep	60 N GREEN ST RIVERSIDE, IA 5232	7			Sample Source	***************************************
		***			Sample Note(s)	
EST	FANALYSIS - FINAL REI	PORT	LT (ma/L)	QUA	1	ANALYSIS NOTE(S)
EST hloride, EPA 3 Chlorid	FANALYSIS - FINAL REI 300.0 de	PORT	LT.(mg/L)	ΩUΔ 0.2		Analysis note(s)
EST hloride, EPA 3 Chlorid ulfate, EPA 30 Sulfate	F ANALYSIS - FINAL REI 300.0 de 300.0	PORT	IJ.(ms/l/s)	0.000	1	ANALYSIS NOTE(S)
EST hloride, EPA 3 Chlorid ulfate, EPA 30 Sulfate otal Hardness Total H	FANALYSIS - FINAL REI 300.0 die 10.0	PORT RESU 1.2	I.T.(mg/l _e)	0.2	1	ANALYSIS NOTE(S)
EST hloride, EPA 3 Chloric ulfate, EPA 30 Sulfate otal Hardness Total H otal Dissolved Total D	F ANALYSIS - FINAL REI 300,0 de 30,0 e as CaCO3, SM 2340 B fardness Solids, SM 2540 C Dissolved Solids vd Solids, USGS 1-3765-85	PORT RESU 1.2 40	IJ.(ms/lb)	0.2	1	ANALYSIS NOTE(S)
EST Chloride, EPA 30 Chloric ulfate, EPA 30 Sulfate otal Hardness Total H otal Dissolved Total Suspende Total S	F ANALYSIS - FINAL REI 300.0 de 10.0 as CaCO3, SM 2340 8 tardness 1 Solids, SM 2540 C bissolved Solids ad Solids, USGS 1-3765-85 Suspended Solids	PORT RESU 1.2 40 270	I.T.(mstl.)	0.2 0.2 5	1	ANALYSIS NOTE(S)
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THE IDE STATE HYGIEN UNIVERSITY OF LOWA	VII.	AN	ALYTICAL REP	DRT	1-800-421-10 WA (4692
Collection Location well #7 top after filters	Collector and Pho kramel stever 319/721-1820	1	nt Reference	Accession# 2290229	
	Callected	Rec	eived	Project	
RIVER SIDE,	2023-06-07 1	3:45 20:	23-06-07 15:20		
				Sample Description	n
e PEOPLE SERV	ICE			Sample Type	
g PEOPLE SERV				Drinking Wate	ır
60 N GREEN S	ī			Sample Source	
RIVERSIDE, IA	52327				
				Sample Note(s)	
RESULTS OF ANALYSIS - FINA	LREPORT				
ESX Chlorida, EPA 3CO.O	L REPORT	PESULT (mg	<u>/L)</u> <u> </u>	THULL THALF	ANALYSIS NOTE(S)
EST Chloride, EPA 300.0 Chloride	L REPORT	PESULT (ma			analysis note(s)
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EST Chloride, EPA 300.0 Chloride Sulfate, EPA 300.0 Sulfate Otal Hardness as CaCO3, SM 2340 E Total Hardness		1.2	0	WANTLUMI .2	analysis <u>n</u> ote(s)
EST Chlorida, EPA 300.0 Chlorida Sulfate, EPA 300.0 Sulfate folal Hardness as CaCO3, SM 2340 E Total Hardness fotal Dissolved Solids, SM 2540 C Total Dissolved Solids	3	1.2	0	HANTLUMI .2	analysis note(s)
IEST Chloride, EPA 300.0 Chloride sulfate, EPA 300.0 Sulfate Total Hardness as CaCO3, SM 2340 E Total Hardness Total Dissolved Solids, SM 25-10 C Total Dissolved Solids Total Suspanded Solids, USGS 1-3765	3	1.2 38 270 350	0 0 5	SANT LIMI .2 .2	Analysis note(s)
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OF IOWA LAB	TE HYGIENIC ORATORY		ANALYTICAL	REPORT	1-800-421-IOWA (469
ollection Location	15	Collector and Phone	Client Reference	Acces	ssion #
o train #1 permeat	te top	kramel steven 319/721-1820		2290	0230
RIVER SIDE.		Collected	Received	Projec	il .
WER SIDE,		2023-06-07 15:00	2023-06-07 15		
				Sampl	le Description
PE	OPLE SERVICE			Sampl	le Type
9 PE				1 - 1 - 1 - 1 - 1	king Water
60	N GREEN ST				la Source
RIV	/ERSIDE, IA 5232	7			
ESULTS OF ANAI	LYSIS - FINAL REF	PORT		1 samp	le Note(s)
st	LYSIS - FINAL REF		-T (mail.)	-	
IST hloride, EPA 300.0 Chloride	LYSIS - FINAL REF		I (mg/L)	1	
IST Noride, EPA 300.0 Chloride Mate, EPA 300.0 Sulfate		RESUL	-Time(L)	QUANT LIM	
IST Noride, EPA 300.0 Chloride Iffate, EPA 300.0 Sulfate Ital Hardness as CaC Total Hardne	CO3, SM 2340 B ISS	RESUL <1.0	-I (me/L)	QUANT LUM	
IST Illorida, EPA 300.0 Chlorida Ulfate, EPA 300.0 Sulfate Ital Hardness as CaC Total Hardne Ital Dissolved Solids,	CO3, SM 2340 B ISB SM 2540 C	<1.0 <1.0 <1.0	Time(L)	QUANTIJM 1 1 5	
IST Dioride, EPA 300.0 Chloride Iliate, EPA 300.0 Sulfate Sulfate Total Hardnes tel Dissolved Solids, Total Dissolv	CO3, SM 2340 B 98 SM 2540 C 9d Solids	<1.0	-I (me/L)	QUANT LUM	
EST Illoride, EPA 300.0 Chloride Ilfate, EPA 300.0 Sulfate Istal Hardness as Cac Total Hardne Ital Dissolved Solids, Total Oissolv Ital Suspended Solid Total Suspen	203, SM 2340 B 95 SM 2540 C red Solids s. USGS 1-3763-85	<1.0 <1.0 <1.0	-I (meil.)	QUANTIJM 1 1 5	IT AMALYSIS NOTE
IST Illoride, EPA 300.0 Chloride Chloride Iffate, EPA 300 0 Sulfate Sulfate Total Hardness as CaC Total Hardness Total Dissolve Ital Suspended Solids,	203, SM 2340 B 95 SM 2540 C red Solids s. USGS 1-3763-85	<1.0 <1.0 <5	-T (me/L)	QUANT LIM	

THE STATE HYGIENIC NIVEISITY OF LABORATORY		ANALYTICAL RE	PORT	1-800-421-1OWA (469
ollection Location	Collector and Phone	Client Reference	Accession #	
o train #2 permeate top	luiz ramos 319/721-1820		2290231	
IVER SIDE,	Collected 2023-06-07 13:55	Received 2023-06-07 15:20	Project	
			Sample Descripti	on
PEOPLE SERVICE			Sample Type Drinking Wat	er
60 N GREEN ST			Sample Source	
RIVERSIDE, IA 523	27		Sample Note(s)	
SULTS OF AMALYSIS - FINAL RE SI loride, EPA 300.0 Chloride			QUANT LIMIT	ANALYSIS NOTEG
lfate, EPA 300.0	43,0		1	
Sulfate tal Hardness as CaCO3, SM 2340 B	3.2		0.2	
Total Hardness tal Dissolved Solids, SM 2540 C	24		5	
Total Dissolved Solids tal Suspended Solids, USGS I-3765-85	32		1	
Total Suspended Solids tals, EPA 200 7	<1		1	2
Calcium Iron	5.8 0.13		1 0.02	<i>6</i> 4



PHONE: 319-365-0551

Web: sos@altorier.com Email: sbanowetz@altorier.com

WEAR

INTERVAL TO ESTABLISH A TREND.

PATTERN

ENGINE GENSET

B030-53229-0074

LABEL#: OPTION2PREPAID

SHOP JOB NUM : CE48883-01-

SL2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -

RECEIVED DATE: 18-Aug-23

WTP

EQUIP NUM: 06-10022

RESAMPLE AT NORMAL

RECOMMENDED INTERVALS.

CAT C15

No Action Required

FIRST SAMPLE/NO TREND ESTABLISHED.

SERIAL NUMBER: C5E00651

COMP SERIAL NUM: FSE00791

Interp By: Sarah Banowetz

Interpreted On: 22-Aug-23

PEARS TO BE NORMAL ON A FIRST SAMPLE BASIS, CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT



SAMPLE INFORMATION

	100

	. 4
Sampled Date	15-Aug-23
Sample Id	B030-53229-0074
Lab Date	17-Aug-23
Meter [Hr]	339
Meter On Fluid	339
Fluid Brand	CAT
Fluid Weight	10W-30
Fluid Type	
Fluid Change	Υ
Filter Change	Y

Total Fluid Added

WEAR LEVELS / ADDITIVES

15-Aug-23

59

		TO MUE ZO
ELEN	MENTAL ANALYSIS (PP	M) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]
Cu	Copper	2
Fe	Iron	2
Cr	Chromium	0
Al	Aluminum	0
Pb	Lead	0
Sn	Tin	0
Si	Silicon	5
Na	Sodium	2
K	Potassium	ī
Mo	Molybdenum	51
Ni	Nickel	0
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Mn	Manganese	0
Cd	Cadmium	0
Ca	Calcium	1243
P	Phosphorus	748
Zn	Zinc	949
Mg	Magnesium	842
Ва	Barium	0

Boron

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

15-Aug-23

VISCOSITY (CENTISTOKES) ASTWID445

V100 Viscosity at 100 C

13.19

TOTAL BASE NUMBER (mg (KOH/g) ASTM D4739

TBN Total Base Numbe

10.9

INFRARED (UFV) ASTM E2412

ST	Soot	0
OXI	Oxidation	15
SUL	Sulfur Products	19
NIT	Nitration	0

WATER

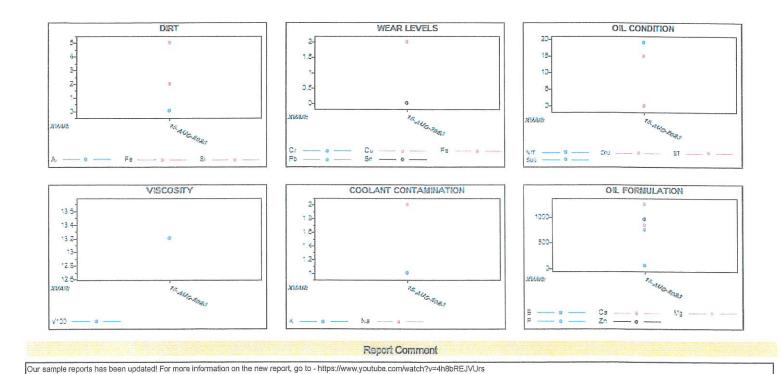
W Water

FUEL

Fuel

N

No Action Required



LORY
CITY OF RIVERSIDE
PO BOX 188
RIVERSIDE, IA 52327



Web: sos@altorier.com Email: sbanowetz@altorier.com

SERIAL NUMBER: C5E00651

RADIATOR

B030-53229-2004

LABEL#: LEVEL2PREPAID

SHOP JOB NUM : CE48883-01-

SL2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -RECEIVED DATE: 21-Aug-23 4

CAT C15

No Action Required

EQUIP NUM: 06-10022

Interp By: Dipali Rote Interpreted On: 23-Aug-23

MAGNETIC SOLIDS MAY INDICATE LOCALIZED HOT SPOTS IN THE COOLING SYSTEM. ALL OTHER ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.



SAMPLE INFORMATION

Sampled Date 15-Aug-23 Sample Id B030-53229-2004 17-Aug-23 Lab Date Meter [Hr] 339 Meter On Fluid 339 Fluid Brand UNKNOWN Fluid Weight Fluid Type UNK Fluid Change N Filter Change Total Fluid Added 0

CORROSION LEVELS/ CHEMISTRY

15-Aug-23

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

Na	Sodium	5962
K	Potassium	21
Mo	Molybdenum	704
Cu	Copper	1
Fe	Iron	1
Pb	Lead	0
Sn	Tin	1
AJ	Aluminum	1
Zn	Zinc	0

ANION ANALYSIS (PPM) ASTM D4327

NO2	Nitrite	1012
NO3	Nitrate	599
GLO	Glycolate	1278
CL	Chloride	310
SO4	Sulfate	135

pH ASTM D1287

Н рН 7.

For additional sample history, go to:

my.cat.com

ADDITIONAL CHARACTERISTICS

15-Aug-23

REFRACTIVE INDEX		
GL	Glycol (%)	60

 FP
 Freeze Point (°C)
 -53

 BP
 Boil Point (°C)
 109

CONDUCTATTY (LISICIN)

CON Conductivity 5885

ADDITIONAL ANALYTES (PPM)

MoO4	Molybdate	1174
воз	Borate	0
SiO3	Silicate	48
PO4	Phosphate	26
TĤ	Total Hardness	57

ORGANIC ANALYSIS (PPM) ASTM D5827

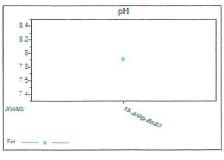
SAC	Sebacate	1783
TT	Tolytriazole	1660
EHA	2-Ethylhexanoic A	19981
BT	1H-Benzotriazole	<100
Benzo	Benzoic Acid	<300
Tol_a	P-Toluic Acid	<150
MOT	2 Margarith	-200

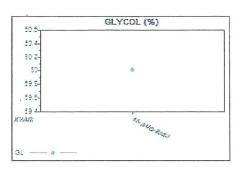
PHYSICAL CHARACTERISTICS

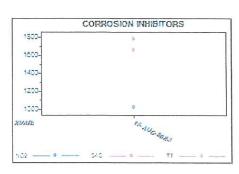
15-Aug-23

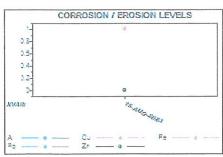
PHYSI	CAL	
Color	Color	red
App	Appearance	clear
Odor	Odor	norm
Oil	Oil	none
Foam	Foam	norm
PAmt	Precip Amount	trace
PApp	Precip Appearance	fine
PCol	Precip Color	blk precip
PPron	Precin Property	mag

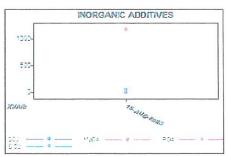
No Action Required

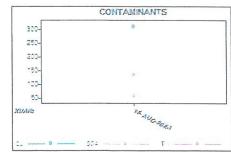












Report Comment

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs

LORY
CITY OF RIVERSIDE
PO BOX 188
RIVERSIDE, IA 52327



Web: sos@altorfer.com Email: sbanowetz@altorfer.com

SERIAL NUMBER: STD00179

COMP SERIAL NUM: PDH00188

Interp By: Sarah Banowetz

Interpreted On: 23-Aug-23

SHOP JOB NUM: CE48889-01-SL2 SAMPLE SHIP TIME (days): 2

LABEL#: OPTION2PREPAID

ENGINE GENSET

B030-53229-0075

CITY OF RIVERSIDE

CE WORK ORDER PREFIX

CONTACTS. CEDAR RAPIDS POWER SYSTEMS -

RECEIVED DATE: 18-Aug-23

FIRST RESAMPLE AT NORMAL RECOMMENDED INTERVALS.

EQUIP NUM: 06-10001

No Action Required

CAT C18

SAMPLE/NO TREND ESTABLISHED.

WEAR PATTERN INTERVAL TO ESTABLISH A TREND.

APPEARS TO BE NORMAL CONTINUE TO MONITOR

ON A FIRST SAMPLE BASIS. COMPARTMENT BY SAMPLING AT

SAMPLE INFORMATION

15-Aug-23 B030-53229-0075

Lab Date Meter [Hr] 498 Meter On Fluid 498

Sampled Date

Sample Id

UNKNOWN Fluid Brand UNKNOWN Fluid Weight

Fluid Change Y Filter Change Υ

17-Aug-23

Fluid Type Total Fluid Added 0

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

15-Aug-23 13.04

VISCOSITY (CENTRISTORIES) ASTIM D445

V100 Viscosity at 100 C

INFRARED (UFM) ASTM E2412

ST Soot 0 OXI Oxidation 18 SUL Sulfur Products 20 NIT Nitration

WATER

W Water N

WEAR LEVELS / ADDITIVES

15-Aug-23

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

57

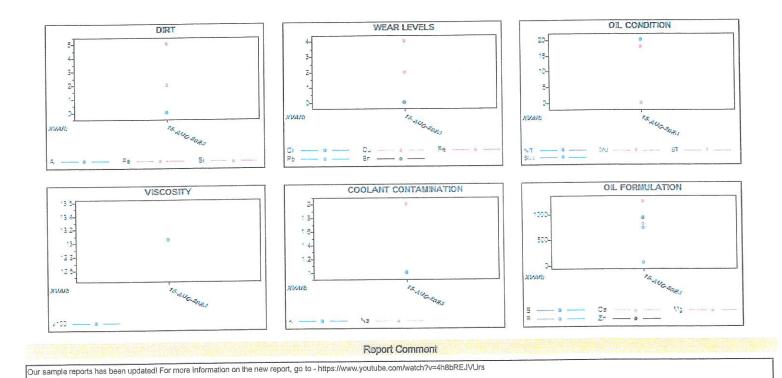
Cu Copper Fe Iron 2 Cr Chromium 0 Al Aluminum Pb 0 Sn Tin 0 Si Silicon 5 Na K Potassium 1 49 Mo Molvbdenum Ni Nickel 0 0 Ag Ti Titanium 1 Vanadium 0 0 Mn Manganese Cd Cadmium 0 Ca Calcium 1247 730 Phosphorus Zn Zinc Mg Magnesium 815 0 Ba Barium

В

Boron

FUEL

No Action Required



LORY
CITY OF RIVERSIDE
PO BOX 188
RIVERSIDE, IA 52327



Web: sos@altorier.com Email: sbanowetz@altorier.com

SERIAL NUMBER: STD00179

RADIATOR

B030-53229-2007

LABEL#: LEVEL2PREPAID

SHOP JOB NUM : CE48889-01-

SL2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS

POWER SYSTEMS -

RECEIVED DATE: 21-Aug-23

EQUIP NUM: 06-10001

CAT C18

No Action Required

Interp By: Dipali Rote

Interpreted On: 23-Aug-23

ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE, CONTINUE TO SAMPLE AT

THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

Sampled Date 15-Aug-23 Sample Id B030-53229-2007 Lab Date 17-Aug-23 Meter [Hr] 498 Meter On Fluid 498 Fluid Brand UNKNOWN Fluid Weight Fluid Type UNK Fluid Change N Filter Change

0

Total Fluid Added

For additional sample history, go to:

my.cat.com

ADDITIONAL CHARACTERISTICS

15-Aug-23

GL	Glycol (%)	54
FP	Freeze Point (°C)	-43
BP	Boil Point (°C)	108

CONDUCTIVITY (µS/cm)

CON Conductivity

ADDITIONAL ANALYTES (PPM)

MOO4	Molybdate	1317
BO3	Borate	0
SiO3	Silicate	39
PO4	Phosphate	1
TH	Total Hardness	8

ORGANIC ANALYSIS (PPM) ASTM D5827

SAC	Sebacate	1670
TT	Tolytriazole	1682
EHA	2-Ethylhexanoic A	20611
BT	1H-Benzotriazole	<100
Benzo	Benzoic Acid	<300
Tol_a	P-Toluic Acid	<150
MBT	2-Mercantohenzoth	<200

PHYSICAL CHARACTERISTICS

15-Aug-23

PHYSICAL

Color	Color	red
Арр	Appearance	sl cloudy
Odor	Odor	norm
Oil	Oil	none
Foam	Foam	norm
PAmt	Precip Amount	none

CORROSION LEVELS/ CHEMISTRY

15-Aug-23

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D8130 [COOLANT]

Na	Sodium	5514
K	Potassium	27
Mo	Molybdenum	790
Cu	Copper	1
Fe	Iron	0
Pb	Lead	0
Sn	Tin	1
Al	Aluminum	1
Zn	Zinc	1

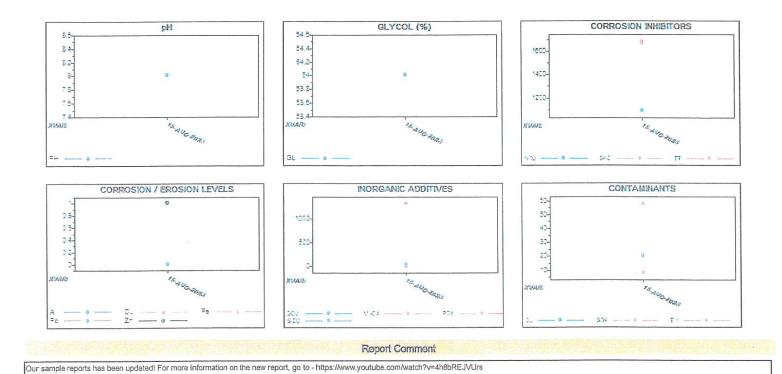
ANION ANALYSIS (PPM) ASTM D4327

NO2	Nitrite	1090
NO3	Nitrate	400
GLO	Glycolate	1093
CL	Chloride	<20
SO4	Sulfate	58

PH ASTM D1287

рΗ pH 8.0

No Action Required



LORY
CITY OF RIVERSIDE
PO BOX 188
RIVERSIDE, IA 52327

ALTORFER

PHONE: 319-365-0551

Web: sos@aftorfer.com Email: sbanowetz@aftorfer.com

SERIAL NUMBER: NAT00599

RADIATOR

B030-53230-2014

LABEL#: LEVEL2PREPAID

SHOP JOB NUM : CE48885-01-

SL2

SAMPLE SHIP TIME (days): 1

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS, CEDAR RAPIDS POWER SYSTEMS -

RECEIVED DATE: 21-Aug-23

EQUIP NUM: EAST LIFT OLYMPIAN D125P1_OLYMPIAN No Action Required

Interp By: Dipali Rote Interpreted On: 23-Aug-23

ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

Sampled Date	17-Aug-23	20-Sep-16
Sample Id	B030-53230-2014	B030-46265-2007
Lab Date	18-Aug-23	21-Sep-16
Meter [Hr]	479	322
Meter On Fluid	318	47
Fluid Brand	CATNGEC	CATNGEC
Fluid Weight		
Fluid Type		
Fluid Change	N	N
Filter Change		
	0	

		CORROSION	LEVELS/ CHEMISTRY
		17-Aug-23	20-Sep-16
ELEM	ENTAL ANALYSIS (F	PM) ASTM D5185 [OIL]	/ ASTM D6130 [COOLANT]
Na	Sodium	4432	1854
K	Potassium	483	19
Ma	Molybdenum	676	3
Cu	Copper	0	0
Fe	Iron	1	7
Pb	Lead	0	5
Sn	Tin	0	0
Al	Aluminum	0	0
Zn	Zinc	0	0
ANION	ANALYSIS (PPM) A	STM D4327	
NO2	Nitrite	628	1101
NO3	Nitrate	113	965
GLO	Glycolate	675	462
CL	Chloride	<20	8
SO4	Sulfate	51	21
pH AS	TM D1287		
рН	рН	8.2	9.0

PREVIOUS SAMPLE

ALL	ANAL	YSIS	READINGS	ARE	MI	THIN	THE	EXE	PECTED	RAN	GE	FOR	THIS
COOLA		SAMP		CONTINU			SAME					ЕСОММЕ	
INTERV	AL.											LOOMINIC	INDED

2564

For additional sample history, go to:	For	additional	sample	history.	go to:
---------------------------------------	-----	------------	--------	----------	--------

my.cat.com

		ADDITIONAL CHA	ARACTERISTIC	K
		17-Aug-23	20-Sep-16	
REFE	RACTIVE INDEX			
GL	Glycol (%)	51	44	
FP	Freeze Point (°C)	-38	-30	
BP	Boil Point (°C)	107	106	

4342

ADDITIONAL ANALYTES (PPIM)

Conductivity

CON

MoO4	Molybdate	1127	4
воз	Borate	172	1752
SiO3	Silicate	28	143
PO4	Phosphate	290	20
TH	Total Hardness	2	0

ORGANIC ANALYSIS (PPM) ASTM 05927

SAC	Sebacate	1394	1465
TT	Tolytriazole	1065	629
EHA	2-Ethylhexanoic A	16787	٥
BT	1H-Benzotriazole	<100	0
Benzo	Benzoic Acid	<300	24
Tol_a	P-Toluic Acid	<150	0
MRT	2-Mercantohenzoth	<200	0

PHYSICAL CHARACTERISTICS

		17-Aug-23	20-Sep-16	
PHYS	CAL		*	
Color	Color	red	magenta	
Арр	Appearance	clear	cloudy	
Odor	Odor	norm	norm	
Oil	Oil	none	none	
Foam	Foam	norm	norm	
PAmt	Precip Amount	none	trace	

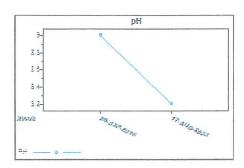
No Action Required

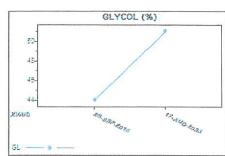
SAMPLE INFORMATION

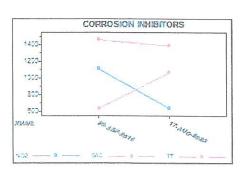
	The same of the sa	- War
Sampled Date	17-Aug-23	20-Sep-16
Sample Id	B030-53230-2014	B030-46265-2007
Lab Date	18-Aug-23	21-Sep-16
Meter [Hr]	479	322
Meter On Fluid	318	47
Fluid Brand	CATNGEC	CATNGEC
Fluid Weight		
Fluid Type		
Fluid Change	N	N
Filter Change		
	0	

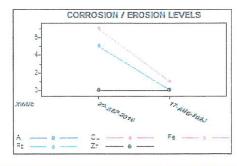
PApp	Precip Appearanc
PCol	Precip Color
PProp	Precip Property

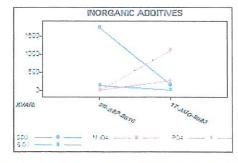
fla	ke
blk	sol
ma	g

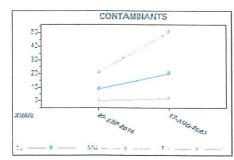












Report Comment

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs

LORY

CITY OF RIVERSIDE

PO BOX 188

RIVERSIDE, IA 52327

Wab: sos@altorfer.com Email: sbanoweiz@altorfer.com

ENGINE GENSET

B030-53230-0079

LABEL#: OPTION2PREPAID

SHOP JOB NUM : CE48885-01-

SL2

SAMPLE SHIP TIME (days): 1

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -RECEIVED DATE: 18-Aug-23

EQUIP NUM: EAST LIFT

OLYMPIAN D125P1_OLYMPIAN

No Action Required

SERIAL NUMBER: NAT00599

Interp By: Sarah Banowetz Interpreted On: 23-Aug-23

NOTE LENGTH OF TIME SINCE LAST SAMPLE TAKEN, INTERMITTENT USAGE CAN CAUSE HIGH RESULTS OF THE LATEST SAMPLE INDICATE NORMAL WEAR AND TRENDS FOR THIS COMPARTMENT. NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT INTERVALS. RECOMMENDED SUGGEST RESAMPLE IN 6 MONTHS AT HALF THE NORMAL INTERVAL , WHICHEVER COMES FIRST, TO MONITOR TREND.



SAMPLE INFORMATION

	-5	
Sampled Date	17-Aug-23	20-Sep-16
Sample Id	B030-53230-0079	B030-46265-0203
Lab Date	18-Aug-23	21-Sep-16
Meter [Hr]	479	322
Meter On Fluid	157	26
Fluid Brand	CAT	CAT
Fluid Weight	15W-40	15W-40
Fluid Type		
Fluid Change	Υ	Υ
Filter Change	Υ	Υ
Kidney Loop		U

PREVIOUS SAMPLE

WEAR METAL ANALYSIS RESULTS ARE NORMAL INFRARED ANALYSIS RESULTS ARE ACCEPTABLE WATER/FUEL/GLYCOL PHYSICAL TESTS ARE ACCEPTABLE NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE CONTINUE SAMPLING AT THE NEXT NORMAL SERVICE INTERVAL

12.0

For additional sample history, go to:

CONDITION LOCALITATION AND

my.cat.com

		MINITION !	UNTAMINATIO
		17-Aug-23	20-Sep-16
VISCO	SITY (CENTISTOKES)	STM D945	
V100	Viscosity at 100 C	14.36	13.9

TOTAL BASE MUMBER (mg KORIG) ASTM DATAD

Total Base Numbe

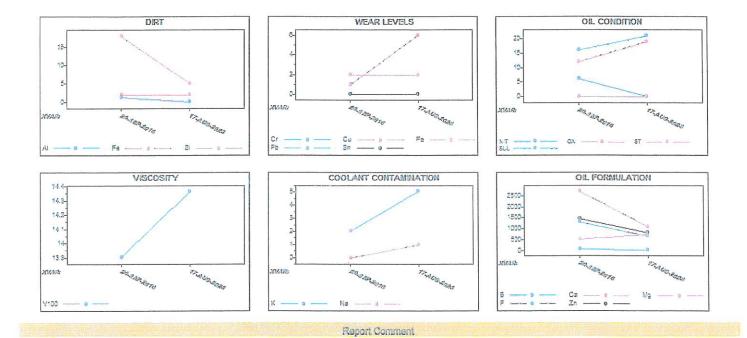
1.75	Tripped and Married	T THE PARTY	4 40 4	ED IN APPRIL	STATE OF
CONTRACTOR OF THE PARTY OF THE	The Lates	Charles A. F. See	1 50 1 13	2-12-23-23-23	A feet Cal
	Linear M. 1	designed of the	when had at 3 h	DOM	Charles San

		WEARLE	/ELS/ADDITIVES		
		17-Aug-23	20-Sep-16	270.477	Name (Special)
ELEN	ENTAL ANALYSIS (PRI	nastwoelse for	LASTIN DENSO [COOLANT]		VRED (UFM) ASTM
Cu	Copper	6	1	01	Soot
Fe	Iron	2	2	OXI	Oxidation
Cr	Chromium	0	0	SUL	Sulfur Products
Al	Aluminum	0	1	NIT	Nitration
Pb	Lead	0	0		200120
Sn	Tin	0	0	WATE	R
Si	Silicon	5	18	W	Water
Na	Sodium	1	0		
K	Potassium	5	2		
Mo	Molybdenum	43	48	4000	4.535.4
Ni	Nickel	0	0	ANTU	REEZE
Ag	Silver	0	0	Α	Antifreeze
Ti	Titanium	0	0		
V	Vanadium	0	0		
Mn	Manganese	0	0	FUEL	
Cd	Cadmium	0	0	F	Fuel
Ca	Calcium	1119	2703	100	ruei
Р	Phosphorus	672	1279		
Zn	Zinc	832	1444		
Mg	Magnesium	765	534		
Ва	Barium	0	0		

1	Soot	0	0
XI	Oxidation	19	12
UL	Sulfur Products	21	16
IT	Nitration	0	6

per room				
ruel				y 3
_	Cuel	M		





LORY CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs



RADIATOR

B030-53230-2013

LABEL#: LEVEL2PREPAID

SHOP JOB NUM : CE48886-01-

SL2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS

POWER SYSTEMS -

RECEIVED DATE: 21-Aug-23

15#Z

EQUIP NUM: 02-11712

CAT D40P3_CAT

Monitor Compartment



PHONE: 819-365-0551

Web: sos@altorier.com Email: sbanowetz@altorier.com

SERIAL NUMBER: NPF01766

Interp By: Dipali Rote

Interpreted On: 23-Aug-23

%GLYCOL IS HIGH. RECOMMEND DRAINING 1/3 OF SYSTEM CAPACITY AND REFILL WITH QUALITY WATER. THEN ADD 1% OF ADDITIVE. RESAMPLE IN 3 MONTHS TO MONITOR.

SAMPLE INFORMATION

-Sampled Date 16-Aug-23 B030-53230-2013

Sample Id Lab Date 18-Aug-23 Meter [Hr] 522 Meter On Fluid 522 Fluid Brand UNKNOWN

Fluid Weight Fluid Type

Fluid Change N

Filter Change Total Fluid Added

CORROSION LEVELS/ CHEMISTRY 16-Aug-23

ELEMENTAL ANALYSIS (PPM) ASTM D5135 [OIL] / ASTM D5130 [COOLANT]

Na Sodium 3828 K Potassium 1232 Мо Molybdenum 120 Copper 1 Fe 0 Ph Lead 17 Sn 0 Tin Al 0 Aluminum 7n Zinc 1

ANION ANALYSIS (PPM) ASTM D4927

NO2 Nitrite 1570 NO3 Nitrate 1764 GLO Glycolate 1689 CL Chloride <20 SO4 Sulfate 155

pH ASTM D1287

ρН рΗ 8.5 For additional sample history, go to:

my.cat.com

ADDITIONAL CHARACTERISTICS

16-Aug-23

REFRACTIVE INDEX

GI Glycol (%) 74 FP Freeze Point (°C) -58 BP Boil Point (°C) 118

CONDUCTIVITY (usion)

CON Conductivity

ADDITIONAL ANALYTES (PPM)

MoO4 Molybdate 200 **BO3** Borate 3535 SiO3 Silicate 247 PO4 Phosphate 592 TH Total Hardness 1

ORGANIC ANALYSIS (PPM) ASTM D5827

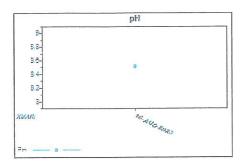
SAC Sebacate <600 TT Tolytriazole 807 EHA 2-Ethylhexanoic A <6000 RT 1H-Benzotriazole <100 Benzo Benzoic Acid <300 Tol_a P-Toluic Acid <150 MBT 2-Mercaptobenzoth <200

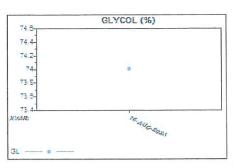
PHYSICAL CHARACTERISTICS

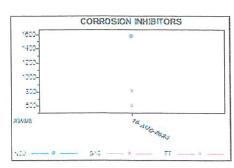
16-Aug-23

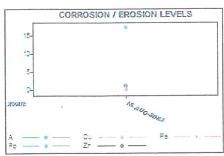
PHYSICAL

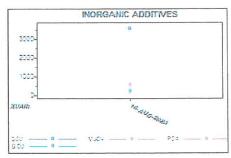
Color Color red App Appearance clear Odor Odor norm Oil none Foam Foam norm PAmt Precip Amount

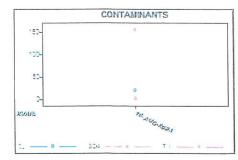












Report Comment

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LORY CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327 ALTORFER INC. -sos@altorfer.com 2600 6th St. SW Cedar Rapids, IA 52404-3504 USA

PHONE: 319-365-0551

Web: sos@altorfer.com Email: sbanowetz@altorfer.com

ENGINE

B030-53230-0080

LABEL#: OPTION2PREPAID

SHOP JOB NUM : CE48886-01-

SL2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -

RECEIVED DATE: 18-Aug-23

VSIN

EQUIP NUM: 02-11712

CAT D40P3_CAT

No Action Required

SERIAL NUMBER: NPF01766

Interp By: Sarah Banowetz Interpreted On: 23-Aug-23

FIRST SAMPLE/NO TREND ESTABLISHED. NEED HOURS / MILES OF USAGE FOR GOOD DATA EVALUATION. WEAR PATTERN APPEARS TO BE NORMAL ON A FIRST SAMPLE BASIS. RESAMPLE AT NORMAL INTERVAL TO ESTABLISH A TREND, CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

SAMPLE INFORMATION

16-Aug-23 Sampled Date Sample Id B030-53230-0080 18-Aug-23 Lab Date Meter [Hr] 522 Meter On Fluid Fluid Brand CAT Fluid Weight 10W-30 Fluid Type Fluid Change Filter Change Total Fluid Added 0

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

16-Aug-23

VISCOSITY (CENTISTOKES) ASTM DAGS

V100 Viscosity at 100 C 13.51

INFRARED (UFM) ASTM E24/12

 ST
 Soot
 0

 OXI
 Oxidation
 19

 SUL
 Sulfur Products
 23

 NIT
 Nitration
 0

WATER

Water Value

WEAR LEVELS / ADDITIVES

16-Aug-23

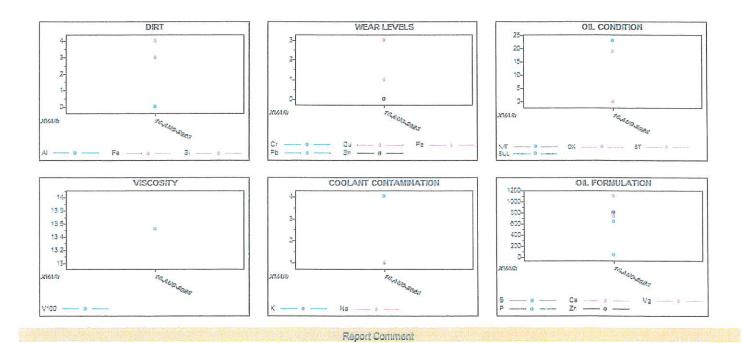
41

	The first owners are and	
ELE	IERTAL ANALYSIS (CP.	M, ASTM DE 185 (ON) / ASTM DE 190 (COCLANT)
Cu	Copper	1
Fe	Iron	3
Cr	Chromium	0
Al	Aluminum	0
Pb	Lead	0
Sn	Tin	0
Si	Silicon	4
Na	Sodium	1
K	Potassium	4
Mo	Molybdenum	41
Ni	Nickel	0
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Mn	Manganese	0
Cd	Cadmium	0
Ca	Calcium	1100
P	Phosphorus	637
Zn	Zinc	802
Mg	Magnesium	743
Ва	Barium	0

Boron

FUEL Fuel

-1130



LORY
CITY OF RIVERSIDE
PO BOX 188
RIVERSIDE, IA 52327

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs



Web: sos@altorfer.com Email: sbanowetz@altorfer.com

SERIAL NUMBER: NPF02488

RADIATOR

E030-53230-2018

LABEL#: LEVEL2PREPAID

SHOP JOB NUM : CE48887-01-

SL2

SAMPLE SHIP TIME (days): 1

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS

POWER SYSTEMS -

RECEIVED DATE: 21-Aug-23

EQUIP NUM: 03-11044 CAT D50P3

No Action Required

Interp By: Dipali Rote Interpreted On: 23-Aug-23

ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT



SAMPLE INFORMATION

	- All
Sampled Date	17-Aug-23
Sample Id	B030-53230-2018
Lab Date	18-Aug-23
Meter [Hr]	772
Meter On Fluid	772
Fluid Brand	UNKNOWN
Fluid Weight	
Fluid Type	
Fluid Change	N

0

Filter Change Total Fluid Added

> CORROSION LEVELS/ CHEMISTRY 17-Aug-23

	The state of the s
ELEMENTAL ANALYSIS (PPN	A) ASTIM D5185 [OIL] / ASTIM D5130 [COOLANT]

Na	Sodium	3707
K	Potassium	875
Мо	Molybdenum	126
Cu	Copper	1
Fe	Iron	1
Pb	Lead	1
Sn	Tin	1
Al	Aluminum	0
7n	Zinc	0

ANION ANALYSIS (PPM) ASTM D4327

NO2	Nitrite	1075
NO3	Nitrate	1742
GLO	Glycolate	1790
CL	Chloride	<20
SO4	Sulfate	156

pH ASTM D1287

Н	pН	8.3

For additional sample history, go to:

my.cat.com

ADDITIONAL CHARACTERISTICS

17	-A	110	-7

REF	RACTIVE INDEX	
GL	Glycol (%)	69
FP	Freeze Point (°C)	-69
BP	Boil Point (°C)	114

CONDUCTIVITY (USICIA)

CON	Conductivity	3230
CON	Conductivity	32

ADDITIONAL ANALYTES (PPM)

MoO4	Molybdate	210
BO3 Borate		3215
SiO3	Silicate	256
PO4 Phosphate		319
TH	Total Hardness	1

ORGANIC ANALYSIS (PPM) ASTM D5027

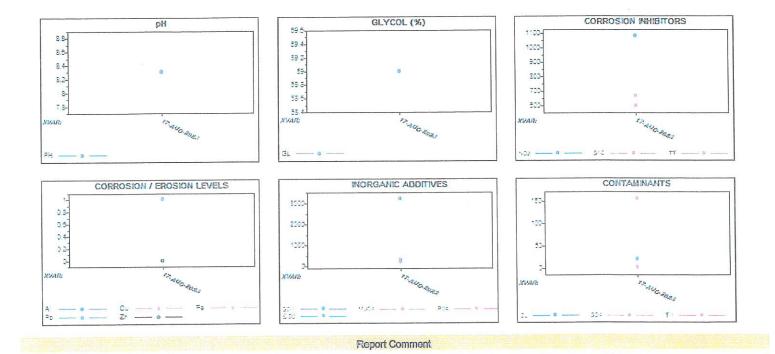
SAC	Sebacate	<600
TT	Tolytriazole	667
EHA	2-Ethylhexanoic A	<6000
BT	1H-Benzotriazole	<100
Benzo	Benzoic Acid	<300
Tol_a	P-Toluic Acid	<150
MBT	2-Mercaptobenzoth	<200

PHYSICAL CHARACTERISTICS

	17-Aug-
CAL	

PHYSI	1000017	
Color	Color	red
App	Appearance	clear
Odor	Odor	norm
Oil	Oil	none
Foam	Foam	norm
PAmt	Precip Amount	none

No Action Required



; LORY CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327

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Web: sos@altoner.com Ernail, sbanowetz@altorfer.com

ENGINE

E030-53230-0082

LABEL#: OPTION2PREPAID

SHOP JOB NUM : CE48887-01-

SL2

SAMPLE SHIP TIME (days): 1

CITY OF RIVERSIDE

CE WORK ORDER PREFIX

CONTACTS. CEDAR RAPIDS

POWER SYSTEMS -

RECEIVED DATE: 18-Aug-23



EQUIP NUM: 03-11044

CAT D50P3

No Action Required

SERIAL NUMBER: NPF02488

Interp By: Sarah Banowetz

Interpreted On: 23-Aug-23

FIRST SAMPLE/NO TREND ESTABLISHED. NEED HOURS / MILES OF USAGE FOR GOOD DATA EVALUATION. PATTERN APPEARS TO BE NORMAL ON A FIRST SAMPLE BASIS. WEAR RESAMPLE AT NORMAL INTERVAL TO ESTABLISH A TREND. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

SAMPLE INFORMATION

17-Aug-23 Sampled Date Sample Id B030-53230-0082 Lab Date 18-Aug-23 Meter [Hr] 772 Meter On Fluid Fluid Brand CAT Fluid Weight 10W-30 Fluid Type Fluid Change Filter Change

Total Fluid Added

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION 17-Aug-23

VISCOSITY (CENTISTOKES) ASTN D48

Viscosity at 100 C 13.97

INFRARED (UFIN) ASTRA EDAS

ST OXI Oxidation 20 SUL Sulfur Products 23 MIT Nitration

WATER.

W Water

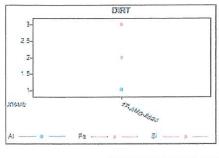
WEAR LEVELS / ADDITIVES

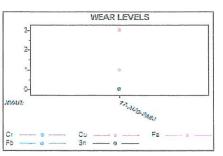
L	7	-F	1	ıg	-2	3
٠	7	***	2.4	77	-	**

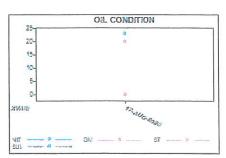
ELEN	iental analygio (pp	MO ASTIM DS 185 (OIL) LASTIM DE180 (COCLAINT)
Cu	Copper	1
Fe	Iron	3
Cr	Chromium	0
Al	Aluminum	1
Pb	Lead	0
Sn	Tin	0
Si	Silicon	2
Na	Sodium	0
K	Potassium	4
Мо	Molybdenum	43
Ni	Nickel	0
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Mn	Manganese	0
Cd	Cadmium	0
Ca	Calcium	1081
P	Phosphorus	662
Zn	Zinc	829
Mg	Magnesium	719
Ba	Barium	0
В	Boron	42

FUEL

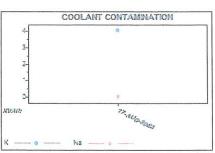
Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or component thereof.

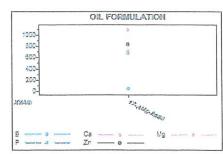












Report Comment

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LORY CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327



Web; sos@altorfer.com Email: sbanowetz@altorfer.com

SERIAL NUMBER: GBE00945

COMP SERIAL NUM: N1Z00747

RADIATOR

B030-53230-2015

LABEL#: LEVEL2PREPAID

SHOP JOB NUM: CE48884-01-

SL2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -RECEIVED DATE: 21-Aug-23

CAT C2.2 No Action Required

EQUIP NUM: WELL #4

Interp By: Dipali Rote Interpreted On: 23-Aug-23

ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	7	
Sampled Date	16-Aug-23	07-Oct-16
Sample Id	B030-53230-2015	B030-46284-2002
Lab Date	18-Aug-23	10-Oct-16
Meter [Hr]	168	104
Meter On Fluid	168	104
Fluid Brand	CATELC	CATELC
Fluid Weight		
Fluid Type		
Fluid Change	N	N
Filter Change		
	Ω	

		CORROSION	EVELS/ CHEMISTRY
		16-Aug-23	07-Oct-16
ELEM	ENTAL ANALYSIS (F	PM) ASTM D5105 [OIL]	/ ASTM D6130 [COOLANT]
Na	Sodium	4000	3781
K	Potassium	4060	1589
Mo	Molybdenum	643	161
Cu	Copper	2	0
Fe	Iron	0	0
Pb	Lead	0	0
Sn	Tin	0	0
Al	Aluminum	0	0
Zn	Zinc	0	0
ANION	AMALYSIS (PPM)	ASTIVI D4327	
NO2	Nitrite	1120	1567
NO3	Nitrate	1137	502
GLO	Glycolate	1012	335
CL	Chloride	<20	12
SO4	Sulfate	66	58
pH AS	TW D1287		
рН	рН	8.7	9.1

PREVIOUS SAMPLE

ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE

INTERVAL.	SAMPLE.	CONTINUE	10	SAMPLE	AI	THE	RECOMMENDED
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	For addi	tional sample histo	ory, go I	o:		my.cat.	com
		ADDITIONAL	CHAI	RACTERIS	STICS		

	The state of the s		THE TOTAL	
		16-Aug-23	07-Oct-16	
REF	PACTIVE INDEX			
GL	Glycol (%)	64	60	
FP	Freeze Point (°C)	-62	-53	
BP	Boil Point (°C)	112	109	
CON	DUCTIVITY (µS/cm)			

CON	Conductivity	5901	534

ADDITI	ONAL ANALYTES (PPM))	
MoO4	Molybdate	1072	269
ВО3	Borate	1213	1017
SiO3	Silicate	255	357
PO4	Phosphate	4467	23
TH	Total Hardness	0	8
ORGA	NIC ANALYSIS (PPM) AS	STM D5827	
SAC	Sebacate	<600	587
TT	Tolytriazole	985	1786
EHA	2-Ethylhexanoic A	<6000	1895
BT	1H-Benzotriazole	215	0
Benzo	Benzoic Acid	6334	10702
The Lates	D T 1 ' A ' '	4.55	2255

		PHYSICAL CHA	RACTERISTICS
ивт	2-Mercaptobenzoth	<200	38
ol_a	P-Toluic Acid	155	2268
Benzo	Benzoic Acid	6334	10702
BT.	1H-Benzotriazole	215	0

		PHYSICAL CHA	PHYSICAL CHARACTERISTICS				
		16-Aug-23	07-Oct-16				
PHYS	CAL						
Color	Color	blue/dark	red/orange				
Арр	Appearance	clear	clear				
Odor	Odor	norm	norm				
Oil	Oil	none	none				
Foam	Foam	norm	norm				
PAmt	Precio Amount	none	trace				

SERIAL NUMBER: GBE00945

EQUIP NUM: WELL #4

CAT C2.2

Sampled Date Sample Id

Lab Date

Meter [Hr]

Fluid Brand Fluid Weight Fluid Type Fluid Change

Filter Change

Meter On Fluid

COMP SERIAL NUM: N1Z00747

168

CATELC

B030-53230-2015

No Action Required

	BAMPLE INFORMAT	TION
a de	W.P.	
16-Aug-23	07-Oct-16	
B030-53230-2015	B030-46284-2002	
18-Aug-23	10-Oct-16	
168	104	

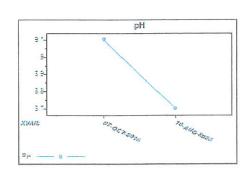
104

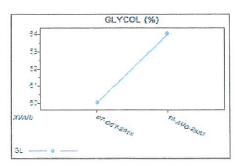
CATELC

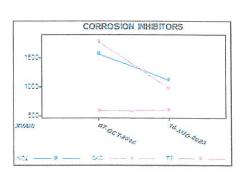
N

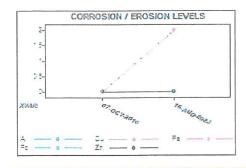
PApp Precip Appearance PCol Precip Color PProp Precip Property

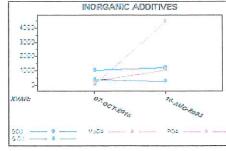
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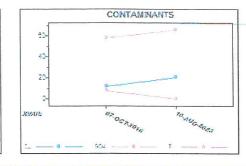












Report Comment

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LORY

CITY OF RIVERSIDE

PO BOX 188

RIVERSIDE, IA 52327

ALTORFER INC. - sos@altorfer.com 2600 6th St. SW Cedar Rapids, IA 52404-3504 USA

Web: sos@altorfer.com Ergall, sbanowelz@altorfer.com

ENGINE GENSET

B030-53230-0084

SHOP JOB NUM : CE48884-01-

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -RECEIVED DATE: 18-Aug-23

15 HY

EQUIP NUM: WELL #4

CAT C2.2

No Action Required

SERIAL NUMBER: GBE00945 COMP SERIAL NUM: E6X00648

> Interp By: Sarah Banowetz Interpreted On: 23-Aug-23

NOTE LENGTH OF TIME SINCE LAST SAMPLE TAKEN. INTERMITTENT USAGE CAN CAUSE HIGH READINGS. RESULTS OF THE LATEST SAMPLE INDICATE NORMAL WEAR AND TRENDS FOR THIS COMPARTMENT. NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS. SUGGEST RESAMPLE IN 6 MONTHS OR AT HALF THE NORMAL INTERVAL , WHICHEVER COMES FIRST, TO MONITOR TREND.

SAMPLE INFORMATION

	at start	and the same of th
Sampled Date	16-Aug-23	07-Oct-16
Sample Id	B030-53230-0084	B030-46284-0177
Lab Date	18-Aug-23	10-Oct-16
Meter [Hr]	168	104
Meter On Fluid	64	8
Fluid Brand	CAT	CAT
Fluid Weight	15W-40	15W-40
Fluid Type		
Fluid Change	Υ	Υ
Filter Change	Y	Y
Kidney Loop		U

WEAR METAL	ANALYSIS RESULTS ARE NORMAL INFRARED	ANALYSIS
RESULTS ARE	ACCEPTABLE WATER/FUEL/GLYCOL PHYSICAL TEST	S ARE
ACCEPTABLE.	NO PROBLEMS PRESENTLY ASSOCIATED WITH THE	S SAMPLE
	IG AT THE NEXT NORMAL SERVICE INTERVAL	

For additional sample history, go to:

my.cat.com CONDITION / CONTAMINATION

	COMPAND DESCRIPTION	MATERIAL PROPERTY.	THE PERMITTERS IN
		16-Aug-23	07-Oct-16
VISCO	BILLA (GENIZIELOKES) 1	STINDANS	
V100	Viscosity at 100 C	14.50	14.4

TOTAL BASE NUMBER (ING KOHIO) ASYM DATES

TBN Total Base Numbe 12.4

		WEAR LE	/ELS / ADDITIVES	
2002		16-Aug-23	07-Oct-16	
ELEN	MENTAL ANALYSIS (PE	M) ASTM D5:185 (OIL	LASTNIDE (SO [COCLANT)	
Cu	Copper	15	2	
Fe	Iron	1	3	
Cr	Chromium	0	0	
Al	Aluminum	0	2	
Pb	Lead	0	1	
Sn	Tin	0	0	
Si	Silicon	2	6	
Na	Sodium	0	0	
K	Potassium	5	2	
Мо	Molybdenum	40	42	
Ni	Nickel	0	0	
Ag	Silver	0	0	
Ti	Titanium	3	0	
V	Vanadium	0	0	
Mn	Manganese	0	0	
Cd	Cadmium	0	0	
Ca	Calcium	1132	2862	
P	Phosphorus	677	1330	
Zn	Zinc	834	1506	
Mg	Magnesium	670	546	

0

78

0

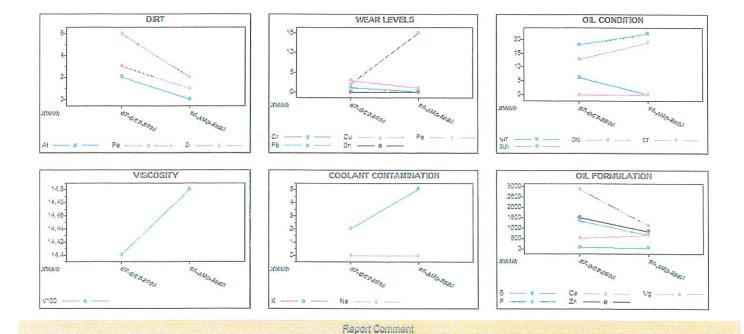
Ba

Barium

Boron

	INFRVE	ED (UFM) ASTM E24/2				146.2
1	ST	Soot	0	0		
	OXI	Oxidation	19	13		
	SUL	Sulfur Products	22	18		
	NIT	Nitration	0	6		
	WATER	Name of the state			Antonia -	- 17 * 1
	W	Water	N	N		
	ANTIER	EEZE .	en e			
	A	Antifreeze		N		

FUEL		100	120 20 10	5.		 		9
FUEL				 -	-	. "		
F	Fuel		N	N				



LORY
CITY OF RIVERSIDE
PO BOX 188
RIVERSIDE, IA 52327

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Web: sos@altorier.com Email: sbanowetz@altorier.com

SERIAL NUMBER: NPS02212

RADIATOR

B030-53230-2016

LABEL#: LEVEL2PREPAID

SHOP JOB NUM: CE48888-01-

SL2

SAMPLE SHIP TIME (days): 1

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -

RECEIVED DATE: 21-Aug-23

CAT D125P

EQUIP NUM: 05-11148

Monitor Compartment

Interp By: Dipali Rote

Interpreted On: 23-Aug-23

MAGNETIC SOLIDS MAY INDICATE LOCALIZED HOT SPOTS IN THE COOLING SYSTEM. NITRITE (SCA INHIBITOR) LEVEL IS TOO LOW TO PROVIDE CORROSION/EROSION PROTECTION. ADD 3% CAPACITY OF CATERPILLAR SCA(P/N 3P2044) TO BOOST NITRITE. SAMPLE IN HALF THE NORMAL INTERVAL TO MONITOR.



SAMPLE INFORMATION

1

Sampled Date 17-Aug-23 B030-53230-2016 Sample Id Lab Date 18-Aug-23 Meter [Hr] 329 Meter On Fluid 329 UNKNOWN Fluid Brand Fluid Weight Fluid Type Fluid Change

Filter Change Total Fluid Added 0

CORROSION LEVELS/ CHEMISTRY

17-Aug-23

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

Sodium	4551
Potassium	351
Malybdenum	10
Copper	1
Iron	3
Lead	4
Tin	1
Aluminum	0
Zinc	0
	Potassium Molybdenum Copper Iron Lead Tin Aluminum

ANION ANALYSIS (PPM) ASTM D4327

	AND RESIDENCE OF THE PROPERTY	A CONTRACTOR OF THE PARTY OF TH
NO2	Nitrite	463
NO3	Nitrate	998
GLO	Glycolate	174
CL	Chloride	<20
SO4	Sulfate	137

pH ASTM D1287

pH pH 8.9 For additional sample history, go to:

my.cat.com

ADDITIONAL CHARACTERISTICS

17-Aug-23

REFE	RACTIVE INDEX	
GL	Glycol (%)	66
FP	Freeze Point (°C)	-67
BP	Boil Point (°C)	113

CONDUCTIVITY (US/cm)

CON Conductivity 3672

ADDITIONAL ANALYTES (PPM)

MoO4	Molybdate	17
воз	Borate	2107
SiO3	Silicate	271
PO4	Phosphate	36
TH	Total Hardness	70

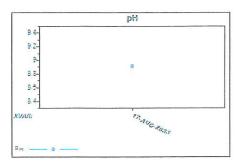
ORGANIC ANALYSIS (PPM) ASTM D5827

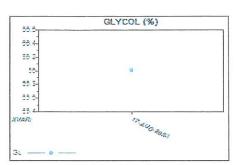
SAC	Sebacate	3140
TT	Tolytriazole	888
EHA	2-Ethylhexanoic A	6339
BT	1H-Benzotriazole	<100
Benzo	Benzoic Acid	1830
Tol_a	P-Toluic Acid	<150
MRT	2-Mercantohonzoth	<200

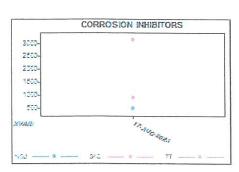
PHYSICAL CHARACTERISTICS

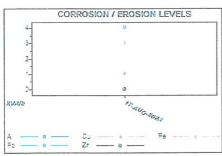
17-Aug-23

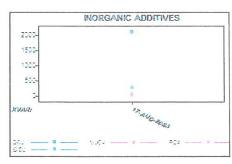
PHYSI	CAL	
Color	Color	red
Арр	Appearance	clear
Odor	Odor	norm
Oil	Oil	none
Foam	Foam	norm
PAmt	Precip Amount	trace
PApp	Precip Appearance	fine
PCol	Precip Color	brn precip
PProp	Precin Property	mag

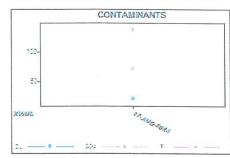












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LORY CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327



ENGINE

B030-53230-0083

LABEL#: OPTION2PREPAID

SHOP JOB NUM : CE48888-01-

SIZ

SAMPLE SHIP TIME (days): 1

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS

POWER SYSTEMS -

RECEIVED DATE: 18-Aug-23

EQUIP NUM: 05-11148

Web. sos@altorfer.com Email, sbanoweiz@altorfer.com

CAT D125P



Action Required

SERIAL NUMBER: NPS02212

Interp By: Sarah Banowetz Interpreted On: 23-Aug-23

FIRST SAMPLE/NO TREND ESTABLISHED, NEED HOURS / MILES OF USAGE FOR GOOD DATA EVALUATION. SODIUM IS HIGH. TYPICAL WEAR PATTERN FOR COOLANT LEAK. LOCATE POSSIBLE SOURCE OF COOLANT ENTRY. OIL WAS CHG'D AT THIS TIME. WAS THE FILTER CHECKED FOR VISIBLE METAL / DEBRIS AT THIS SERVICE? RESAMPLE IN 100 HRS. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

VS\$5

SAMPLE INFORMATION

Sampled Date 17-Aug-23 B030-53230-0083 Sample Id Lab Date 18-Aug-23 Meter [Hr] 329 Meter On Fluid Fluid Brand CAT Fluid Weight 10W-30 Fluid Type Fluid Change γ

0

Filter Change

Total Fluid Added

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

17-Aug-23

VISCOSITY (CENTISTONES) ASTAI DAGE

V100 Viscosity at 100 C

INFRORED (UEN), ASTM EZAIZ

 ST
 Soot
 0

 OXI
 Oxidation
 19

 SUL
 Sulfur Products
 21

 NIT
 Nitration
 0

WATER

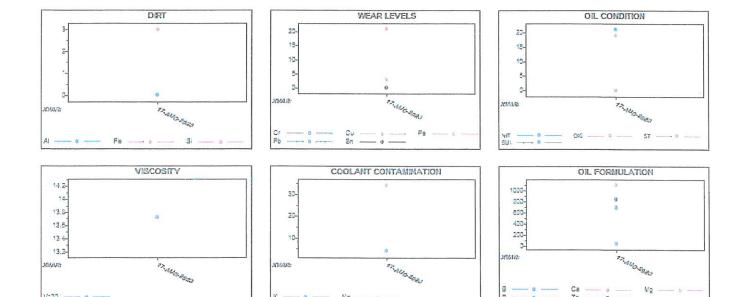
W Water

WEAR LEVELS / ADDITIVES

i	7	-A		_	-7	2	
٠	-	~	4	6	-	-	

11 11 1		17-Aug-23
ELE	Mental Analysis (2)	M) ASTM DE166 (ON) LASTM DE130 (COOLANT)
Cu	Copper	21
Fe	Iron	3
Cr	Chromium	0
Al	Aluminum	0
Pb	Lead	0
Sn	Tin	0
Si	Silicon	3
Na	Sodium	34
K	Potassium	4
Мо	Molybdenum	44
Ni	Nickel	0
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Mn	Manganese	0
Cd	Cadmium	0
Ca	Calcium	1089
P	Phosphorus	677
Zn	Zinc	839
Mg	Magnesium	706
Ва	Barium	0
В	Boron	44

FUEL



Report Comment

LORY
CITY OF RIVERSIDE
PO BOX 188
RIVERSIDE, IA 52327

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Web: sos@altorfer.com Email: sbanowetz@altorfer.com

SERIAL NUMBER: 146139_0507

ENGINE GENSET

B030-53230-0078

LABEL#: OPTION2PREPAID

SHOP JOB NUM: CE48890-01-

SI2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS

POWER SYSTEMS -

RECEIVED DATE: 18-Aug-23



EQUIP NUM: FIRE DEPT KATOLIGHT D150FP54_KATOLIGHT

Monitor Compartment

Interp By: Sarah Banowetz Interpreted On: 23-Aug-23

NOTE LENGTH OF TIME SINCE LAST SAMPLE TAKEN, INTERMITTENT USAGE CAN CAUSE HIGH READINGS. SODIUM IS HIGH. TYPICAL WEAR PATTERN FOR COOLANT LEAK. MONITOR COOLANT CONSUMPTION CLOSELY. CK TO SEE IF SAMPLE WAS TAKEN HOT. BE SURE CORRECT WARM-UP PROCEDURE IS FOLLOWED. OIL WAS CHG'D AT THIS TIME. WAS THE FILTER CHECKED FOR VISIBLE METAL / DEBRIS AT THIS SERVICE? RESAMPLE AT HALF THE NORMAL INTERVAL. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

SAMPLE INFORMATION

	ATA DE	the first
Sampled Date	16-Aug-23	20-Sep-16
Sample Id	B030-53230-0078	B030-46265-0202
Lab Date	18-Aug-23	21-Sep-16
Meter [Hr]	417	218
Meter On Fluid	199	17
Fluid Brand	ALTORFER	ALTORFER
Fluid Weight	15W-40	15W-40
Fluid Type		
Fluid Change	Y	Y
Filter Change	Y	Y
Kidney Loop		U
	0	

PREVIOUS SAMPLE

WEAR	METAL	ANA	ALYSIS	RES	JLTS	ARE	NOR	MAL.	INFRA	RED	ANALYSIS
RESULTS	S ARE	ACC	EPTABLE.	W	ATER/F	UELIGI	YCOL	PHYS	ICAL	TESTS	ARE
ACCEPTA	ABLE.	NO	PROBLE	MS	PRESE	ENTLY	ASSOC	CIATED	WITH	THIS	SAMPLE
CONTINU	ESAMPLIN	GATT	HE NEXT N	ORMA	SERV	ICE INT	ED\/AL		1000		Gravii LL.

For additional sample history, go to:

my.cat.com

	C	CONDITION / CO	NTAMINATIO	N
		16-Aug-23	20-Sep-16	
VISCO	SITY (CENTISTOKES)	ASTM D445		
V100	Viscosity at 100 C	13.95	14.1	

		WEAR LEY	/ELS / ADDITIVES	
		16-Aug-23	20-Sep-16	
ELEN	MENTAL ANALYSIS (PF	PM) ASTM D5185 [OIL]	/ ASTM D6130 [COOLA	П
Cu	Copper	5	0	
Fe	Iron	4	2	
Cr	Chromium	0	0	
Al	Aluminum	0	1	
Pb	Lead	0	0	
Sn	Tin	0	0	
Si	Silicon	9	9	
Na	Sodium	31	1	
K	Potassium	11	2	
Mo	Molybdenum	44	41	
Ni	Nickel	0	0	
Ag	Silver	0	0	
Ti	Titanium	0	0	
V	Vanadium	0	0	
Mn	Manganese	1	0	
Cd	Cadmium	0	0	
Ca	Calcium	1205	2400	
P	Phosphorus	749	1222	
Zn	Zinc	933	1373	
Mg	Magnesium	708	585	
Ва	Barium	0	0	

41

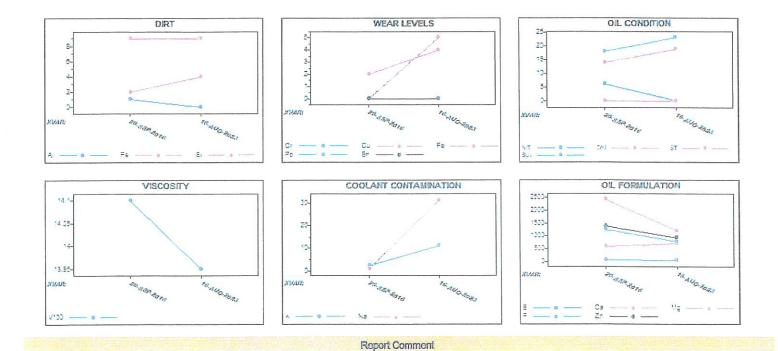
56

Boron

TOTAL BASE NUMBER (mg KOH/g) ASTM D4739

		THEN A TO THE PER AL	14
TBN	Total Base Numbe	11.2	11.0

INFR	ARED (UFM) ASTM E2412	2	
ST	Soot	0	0
OXI	Oxidation	19	14
SUL	Sulfur Products	23	18
NIT	Nitration	0	6
WATE	ir.		
W	Water	N	N
ANTH	REEZE		
Α	Antifreeze		N
FUEL			
E	Fuel	N	N



Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs

LORY CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327



RADIATOR

B030-53230-2017 LABEL#: LEVEL2PREPAID

SHOP JOB NUM: CE48890-01-

SL2

SAMPLE SHIP TIME (days): 2

CITY OF RIVERSIDE

CE WORK ORDER PREFIX CONTACTS. CEDAR RAPIDS POWER SYSTEMS -

RECEIVED DATE: 21-Aug-23

PHONE: 319-365-0551

Web: sus@altorier.com Email. sbanowetz@altorier.com

SERIAL NUMBER: 146139_0507

Interp By: Dipali Rote Interpreted On: 23-Aug-23

%GLYCOL IS HIGH. RECOMMEND DRAINING 1/3 OF SYSTEM CAPACITY AND REFILL WITH QUALITY WATER. THEN ADD 1%



EQUIP NUM: FIRE DEPT

KATOLIGHT D150FP54_KATOLIGHT

OF ADDITIVE. RESAMPLE IN 3 MONTHS TO MONITOR.

Monitor Compartment

	tt "	Y
Sampled Date	16-Aug-23	20-Sep-16
Sample Id	B030-53230-2017	B030-46265-2006
Lab Date	18-Aug-23	21-Sep-16
Meter [Hr]	417	218
Meter On Fluid	199	218
Fluid Brand	CATNGEC	CATNGEC
Fluid Weight		
Fluid Type		
Fluid Change	N	Y
Filter Change		
	0	

CORROSION LEVELS/ CHEMISTRY

		CORROSION	LEVELS/ CHEMISTR	Y
		16-Aug-23	20-Sep-16	
ELEM	ENTAL ANALYSIS (F	PPM) ASTM D5185 (OIL)	/ ASTM D5130 [COOLAN]	Ŋ
Na	Sodium	3512	3785	
K	Potassium	561	3556	
Ma	Molybdenum	0	3	
Cu	Copper	1	1	
Fe	Iron	0	0	
Pb	Lead	4	7	
Sn	Tin	1	1	
Al	Aluminum	1	1	
Zn	Zinc	0	0	
ANIO	MANALYSIS (PPM)	ASTM D4327		
NO2	Nitrite	1131	117	
NO3	Nitrate	1148	380	
GLO	Glycolate	1377	119	
CL	Chloride	<20	12	
SO4	Sulfate	224	26	

pH ASTM D1287 рН

pH

PREVIOUS SAMPLE

COOLANT APPEARS TO BE ELC. NITRITES ARE VERY LOW. IF THIS IS A NITRITE FREE COOLANT ALL TESTS APPEAR NORMAL OTHERWISE ADD 2% SYSTEM CAPACITY OF ADDITIVE TO BOOST NITRITE. RESAMPLE AT NEXT PM.

idditional sample history, go to:

my.cat.com

		ADDITIONAL CHA	ARACTERISTICS	
		16-Aug-23	20-Sep-16	
REF	PACTIVE INDEX			
GL	Glycol (%)	75	57	
FP	Freeze Point (°C)	-56	-48	
BP	Boil Point (°C)	118	109	
CON	DUCTIVITY (µS/cm)			

0

2928

6

256

CON	Conductivity	NA	666
	(1000)		

ADDITIONAL ANALYTES (PPNI) MoO4 Molybdate

Borate

BO3

SiO3	Silicate	258	102
PO4	Phosphate	12	5
TH	Total Hardness	4 3	
ORGA	NIC ANALYSIS (PPM) AS	TM D5827	
SAC	Sebacate	<600	600
TT	Tolytriazole	267	613
EHA	2-Ethylhexanoic A	<6000	285
BT	1H-Benzotriazole	<100	0
Benzo	Benzoic Acid	2679	25
Tol_a	P-Toluic Acid	618	119
MBT	2-Mercaptobenzoth	<200	138

PLIVEICAL CHARACTERISTICS

		PHISICAL CHARACTERISTIC		
		16-Aug-23	20-Sep-16	
PHYS	ICAL			
Color	Color	magenta	red	
Арр	Appearance	clear	cloudy	
Odor	Odor	norm	norm	
Oil	Oil	none	none	
Foam	Foam	norm	norm	
PAmt	Precip Amount	none	trace	

B030-53230-2017

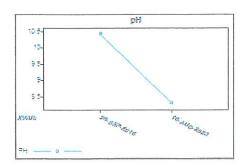
Monitor Compartment

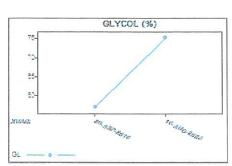
SAMPLE INFORMATION

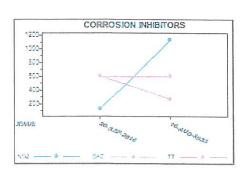
		A
Sampled Date	16-Aug-23	20-Sep-16
Sample Id	B030-53230-2017	B030-46265-2006
Lab Date	18-Aug-23	21-Sep-16
Meter [Hr]	417	218
Meter On Fluid	199	218
Fluid Brand	CATNGEC	CATNGEC
Fluid Weight		
Fluid Type		
Fluid Change	N	Υ
Filter Change		
	0	

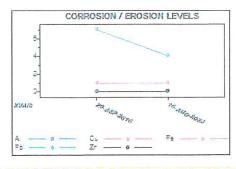
PApp	Precip Appearance
PCol	Precip Color
PProp	Precip Property

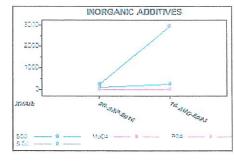
flake blk sol mag

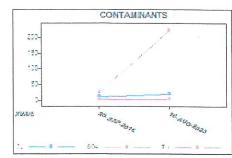












Report Comment

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs

LORY

CITY OF RIVERSIDE

PO BOX 188

RIVERSIDE, IA 52327



QUOTATION

Des Moines IA 50313-2604 USA

Telephone: (515) 265-2222 / FAX (515) 265-8079 Toll Free 1-800-383-PUMP

www.electricpump.com

QUOTE NUMBER: 0153021

QUOTE DATE: 6/14/2023

EXPIRE DATE: 7/14/2024

SALESPERSON: ZACH GRAY

CUSTOMER NO: 6483501

QUOTED BY: CAC

FAIRBANKS U010C221

QUOTED TO: CITY OF RIVERSIDE .PO BOX 188 RIVERSIDE, IA 52327 JOB LOCATION: CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327

CONFIRM TO:

CUSTOMER P.O.	SHIP VI BEST \	······	F.O.B. ORIGIN	TERMS Net 30 Days		
ITEM NUMBER	UNIT	ORDERED	SHIPPED	BACK ORDER	PRICE	AMOUNT
		REPAIR QUOTE FO JOB LOCATION: L		010C22[6CTV.)		
		TECH NOTES: GU DAMAGING SEAL	ILD TABLE WAS T AND IMPELLER.	'ANGLED IN IMPELLER, SEAL FAIL.		
*HYD123BK5 9906F	EACH	1.00 ROTOR/STATOR	0.00	0.00	4,218.50	4,218.50
[®] T6C1FW 0220F	EACH	1.00 IMPELLER	0.00	0.00	8,584.75	8,584.75
*T6C17A 9630F	EACH	1.00 WEAR RING, IMPI	0.00 ELLER	0.00	1,750.75	1,750.75
*T6C16A9630F	EACH	1.00 WEAR RING, CAS	0.0 0	0.00	1,450.75	1,450.75
*CP2928 8380F	EACH	1.00 Gasket, case	0.00	0.00	26.25	26.25
*HYD38AX2 9906F	EACH	1.00 BEARING	0.00	0.00	127.75	127.75
*HYD28BL1 9906F	EACH	1.00 . BEARING	0.00	0.00	40.00	40.00
PM210S0100P	EACH	1.00 O RING SET	0.00	0.00	64.75	64.75
*CP9009A 1111A	EACH	2.00 LEADS, MOISTUR	0.00 E DETECTOR	0.00	193.75	387.50
'HYD1EVI 9906F	EACH	2.00 MECHANICAL SE	0.00	0.00	721.50	1,443.00

THIS QUOTE DOES NOT INCLUDE FREIGHT AND INSTALLATION





QUOTATION

4280 E 14th Street Des Moines IA 50313-2604 USA

Telephone: (515) 265-2222 / FAX (515) 265-8079 Toll Free 1-800-383-PUMP

www.electricpump.com

QUOTE NUMBER: 0153021

QUOTE DATE: 6/14/2023

EXPIRE DATE: 7/14/2024

SALESPERSON: ZACH GRAY

CUSTOMER NO: 6483501

QUOTED BY: CAC

FAIRBANKS U010C221

QUOTED TO: CITY OF RIVERSIDE **PO BOX 188** RIVERSIDE, IA 52327 JOB LOCATION: CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327

CONFIRM TO:

*** OUOTE ORDER - DO NOT PAY ***

			ZOOME OKU	CHECK TO A PART OF THE STATE OF THE	Z X II.
CUSTOMER P.O.	SHIP VIA BEST WAY	F.O.B. ORIGIN	TERMS Net 30 Days		
ITEM NUMBER	UNIT ORDERED	SHIPPED	BACK ORDER	PRICE	AMOUNT

THANK YOU, CINDY CRUISE ccruise@electricpump.com CC: ZACH GRAY 712-420-5687

All return goods must have written approval from Electric Pump, before returning.	Net Order: Less Discount:	18,094.00
Credit will not be issued without written approval: if applicable there will be a Restock Fe	Freight:	00.0 00.0
	Sales Tax: Order Total:	0.00 18.094.00

1



QUOTATION

4280 E 14th Street Des Moines IA 50313-2604 USA

Telephone: (515) 265-2222 / FAX (515) 265-8079 Toll Free 1-800-383-PUMP

QUOTE NUMBER: 0152291

QUOTE DATE: 4/19/2023

EXPIRE DATE: 5/19/2023

www.electricpump.com

SALESPERSON: ZACH GRAY

CUSTOMER NO: 6483501

QUOTED BY: JRF

JOYCE

QUOTED TO: CITY OF RIVERSIDE **PO BOX 188** RIVERSIDE, IA 52327

JOB LOCATION: CITY OF RIVERSIDE PO BOX 188 RIVERSIDE, IA 52327

CONFIRM TO: Luiz Ramirez

*** QUOTE ORDER - DO NOT PAY ***

CUSTOMER P.O. LUIS RAMIREZ	SHIP VIA BESTWA		F.O.B. ORIGIN	TERMS Net 30 Days	1,011	A M A
ITEM NUMBER	UNIT O	RDERED	SHIPPED	BACK ORDER	PRICE	AMOUNT
		WE ARE P REPLACE CURRENT	LEASED TO OFFER THE MENT OF FLYGT 3127.18 MODEL:	FOLLOWING QUOTATIC 1-1895 SN: 0640557 WITH	ON FOR	
0031270600437	EACH	1.00 NP425-6 10	0.00 0/460/3 50' FLS FV+ANSI	0.00	15,231.00	15,231.00

ESTIMATED LEAD TIME IS 12 TO 14 WEEKS ARO, SUBJECT TO FACTORY CHANGE,

THE PRICING ON THIS QUOTE DOES NOT INCLUDE FREIGHT,

INSTALLATION OR START UP.

Electric Pump is committed to supplying you, our customer, the highest quality products & service.

jfrohwein@electricpump.com THANK YOU, JOYCE FROHWEIN

WWTP: digester pamp

*** 3% CONVENIENCE FEE FOR CREDIT CARD CHARGE OVER \$5,000.00 *** All return goods must have written approval from Electric Pump, before returning. Credit will not be issued without written approval: if applicable there will be a Restock Fee. Please note that we are no longer offering a thirty(30) day validity date. Due to the current volatility in the materials market, pricing and ship	Net Order: Less Discount: Freight: Sales Tax: Order Total:	15,231.00 0.00 0.00 0.00 0.00 15,231.00
dates are subject to confirmation at time of order,		,,

9/5/2023

City Administrator's Report

Annual Exam- Attached is an estimate from Gronewold Bell Kyhnn & Co for our FY23 annual exam. With that estimate is a procedure list of what their exam will consist of. I recommend approving this estimate as GBK has done our audits/exams before, is familiar with our system, and is less expensive than an exam from the State Auditor (around \$9,000).

RFD Stipend- I have reached out to our neighboring fire departments and other small towns across the state to learn more about what kind of stipend programs they have. Attached are my findings.

Employee Handbook- All of our revisions have been made. We are waiting for the final read-through by Bill Sueppel to be completed and the final copy to be returned to us. Once received, this will be presented to the council for adoption.

Debbins Building- Posting has been completed. RFPs are due by September 29th at 4pm. Bids will be made available to the Council for review at the October 2nd meeting.

2023 Polling Location- Due to emergency response concerns, we requested to move the Riverside Precinct's polling location. Washington County Auditor Dan Widmer expressed concerns over moving a polling location this close to an election. We have agreed to one final election held at the Fire Department. Moving forward, Dan will be researching the necessary steps to permanently move locations. I am setting up a tours for potential future locations.

Cole Smith

City Administrator

Gronewold, Bell, Kyhnn & Co. P.C. CERTIFIED PUBLIC ACCOUNTANTS BUSINESS AND FINANCIAL CONSULTANTS

1910 EAST 7th STREET BOX 369 ATLANTIC, IOWA 50022-0369 (712) 243-1800 FAX (712) 243-1265 CPA@GBKCO.COM

MARK D. KYHNN KENNETH P. TEGELS CHRISTOPHER J. NELSON DAVID A. GINTHER

INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING AGREED-UPON PROCEDURES

To the Honorable Mayor and Members of City Council

We performed the procedures below, which were established at Iowa Code Chapter 11.6 to provide oversight of Iowa cities. Accordingly, we have applied certain procedures to selected accounting records and related information of the City of Riverside for the period July 1, 2020 through June 30, 2021, including procedures related to the City's compliance with certain Code of Iowa requirements identified below. The City of Riverside's management, which agreed to the performance of the procedures performed, is responsible for compliance with these requirements and for the City's records.

This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants and the standards for attestation engagements contained in Government Auditing Standards, issued by the Comptroller General of the United States. The City of Riverside's management has agreed to and acknowledged that the procedures performed are appropriate to meet the intended purpose to report, in accordance with Chapter 11.6 of the Code of Iowa, recommendations pertaining to selected accounting records and related information of the City including the City's compliance with certain Code of Iowa requirements. This report may not be suitable for any other purpose. The procedures performed may not address all the items of interest to a user of this report and may not meet the needs of all users of this report and, as such, users are responsible for determining whether the procedures performed are appropriate for their purposes.

The procedures we performed are summarized as follows:

- We observed selected City Council meeting minutes for compliance with Chapters 21, 372.13(6) and 380 of the Code of Iowa.
- 2. We obtained an understanding of the City's internal controls to determine if proper control procedures are in place and incompatible duties, from a control standpoint, are not performed by the same employee.
- 3. We observed surety bond coverage for compliance with Chapter 64 of the Code of Iowa.
- 4. We obtained and observed the City Clerk's financial reports and selected bank reconciliations to determine whether the bank balances properly reconciled to the general ledger account balances and monthly financial reports provided to the City Council.
- 5. We scanned City funds for consistency with the City Finance Committee's recommended Uniform Chart of Accounts (COA) and to determine required funds and fund balances are properly maintained and accurately accounted for.

To the Honorable Mayor and Members of City Council

- 6. We observed the City's fiscal year 2021 Annual Financial Report to determine whether it was completed and accurately reflects the City's financial information.
- 7. The City had no investments.
- 8. We scanned depository resolutions, the City's investment policy and reporting of unclaimed property to the State of Iowa to determine compliance with Chapters 12C.2, 12B.10B and 556.1(12) of the Code of Iowa.
- 9. We scanned debt, including general obligation and revenue bonds/notes, and related transactions for proper authorization and compliance with Chapters 75, 384 and 403.9 of the Code of Iowa and to determine whether the debt and related proceeds and repayments were properly accounted for.
- 10. The City had no TIF.
- We traced selected receipts to accurate accounting and consistency with the recommended COA.
- 12. The City had no voter approved levies.
- 13. We traced selected disbursements to proper approval, adequate supporting documentation, accurate accounting and consistency with the recommended COA and compliance with the public purpose criteria established by Article III, Section 31 of the Constitution of the State of Iowa.
- 14. We traced transfers between funds to proper authorization and accurate accounting and to determine whether transfers were proper.
- 15. We traced selected payroll and related transactions to proper authorization and accurate accounting and determined whether payroll was proper.
- We observed the annual certified budget for proper authorization, certification and timely amendment.

Based on the performance of the procedures described above, we identified various findings and recommendations for the City. Our findings and recommendations are described in the Detailed Findings and Recommendations section of this report. Unless reported in the Detailed Findings and Recommendations, items of non-compliance were not noted during the performance of the specific procedures listed above.

We were engaged by the City of Riverside's management to perform this agreed-upon procedures engagement and conducted our engagement in accordance with attestation standards established by the American Institute of Certified Public Accountants. We were not engaged to and did not conduct an examination or review engagement, the objective of which would be the expression of an opinion or conclusion, respectively, on specific accounting records and related information of the City, including compliance with specific Code of Iowa requirements. Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

Proposal for Services

CITY OF RIVERSIDE

Year Ended June 30, 2023

		Annual Exam		 <u>Audit</u>
1.	Estimated total hours	4i.	40	 115
2.	Proposed fee	\$	3,915	\$ 9,265
3.	Estimated out-of-pocket expenses and travel cost		800	1,300
4.	Total proposed cost	<u>\$</u>	4,715	\$ 10,565

Should unusual circumstances be discovered during our engagement or if it is determined that an audit is to be completed in accordance with the Single Audit Act which would require additional work or investigation, this would be brought to your attention. We would then discuss the matter and make separate arrangements if you wish to have us perform additional work.

- 5. Progress billings are submitted monthly on approximately the 10th of the month following the month of service and are payable upon presentation.
- 6. Additional consulting services are billed at our standard billing rates. Our current hourly billing rates are as follows:

Partners	\$135 -\$210
Manager/Supervisor	80-100
Senior	60-80
Other staff	35-60

Fire Department Stipend Area Comps

Lone Tree (pop. 1,355)- No Stipend Program

Kalona (pop. 2,663)- No Stipend Program, but do have two volunteer firemen that are appointed by the department to handle all weekly / monthly / warranty and annual maintenance of all fire equipment. This goes above the "volunteer" label and as such we allocate for them \$350 to be paid twice yearly (\$700 per year).

Wellman (pop. 1,511)— No Stipend Program

Washington (pop. 7,255)- \$13/hr when called out

Hills (pop. 902)- Each items stacks on top of each other

- Fire Fighter 1 \$100
- EMS \$100
- 25% of calls -\$100
- Officer-\$100
- Meetings + Trainings Only (little to no call responses) \$50-100 based on Chief's discretion

Other communities across the state-

West Branch (pop. 2,564)- For night calls only, they offer \$20 a night to be on call and \$25 a night for certified medical personnel to be on night call

Hampton (pop. 4,307)- Hampton has a volunteer fire department. They do get stipends as follows:

- Fire calls: \$10 for the first hour, \$7.50 for every hour beyond the first hour
- Drills/meetings: \$8.00 per drill
- Fire chief: extra \$300 per quarter
- Training officer: extra \$10.00 per training
- Secretary: extra \$15.00 per fire call for doing payroll and paperwork

Fire chief is requesting it be increased to the following:

- \$20/ first hr of a call, \$15 each hr after
- \$12 an hr for drills or training
- \$12 for meetings
- \$20 per drill for training officer for training and planning

Oelwein (pop. 5,844)- Clothing allowance to reimburse members for wear and tear on their personal clothing/gear during training and fire incidents. This reimbursement is measured by policy through a flatrate reimbursement multiplied by the number of meetings, drill, and incidents attended. le.,

- Attendance at a Fire Call or Drill \$4.00
- Attendance at a Meeting \$2.00

Tiffin Fire Department Stipend Program

Department Officer Stipends (annually)

 Fire Chief
 \$12,000

 Assistant Chief
 \$7,000

 Medical Officer
 \$5,000

 Captain
 \$3,500

Training Officer \$3,000 (Instructor I certified)
Training Officer \$1,500 (Non-certified instructor)

Lieutenant \$1,500

Response Stipends Per Call – EMS Only

EMT (Probationary) \$10.00 EMT \$15.00

Response Stipends Per Call - Fire Department

Recruit/Probation (non-certified) \$5.00

Firefighter I +\$7.00
Firefighter II +\$3.00
Fire Instructor I/EMS Instructor +\$1.00
Fire Officer I +\$1.00
Driver Operator – Pumper +\$2.00
Driver Operator – Aerial +\$2.00
EMT +\$5.00

Maximum Per Call \$26.00 (average call will be around \$11.00 per person)

One (1) point will be earned per call response based upon the member's certification level at the time of the call.

One-half (.5) point will be earned per call for the member writing the incident report or EMS report. Holiday pay will be 1.5 times the stipend call rate (match City recognized holidays per City Employee Handbook, current edition)

One (1) point will be added per call response with cleanup that exceeds three (3) hours.

Points for hazmat calls will be earned at a minimum of one (1) point for 1 hour and one-quarter (.25) points for each additional quarter hour thereafter, including for decontamination and cleanup. (See also Hazmat Ordinance).

Training/Meeting Stipends

\$20 per approved department business meeting attended.

\$20 per approved department officer's meeting attended.

\$20 per approved training (maximum of 2 per month, minimum of 2 hours each).

Membership Stipend and Pay Per Call Program

This program was started to retain volunteers and promote activity by using positive reinforcement measures.

Stipend – The yearly stipend for members on RFD will be based on rank within the RFD and Fire/EMS certification. The member will be eligible for stipend and pay per call if they're in good standing order and meet minimum requirements of RFD. The following things will be evaluated, meeting attendance, training hours, and total calls made. The RFD minimum standards for those 3 things are as follows. This applies to all members who have completed 1 year of service.

Eligibility Requirements-

Service- Minimum of 1 year

Members are eligible for a stipend and pay-per-call after their first full year of service. The membership stipend will be prorated to the months actively served beyond the 1-year service mark.

a) This requirement can be waived if the member has previous experience and certifications

Meeting Attendance – 8 out of 12 monthly meetings

Training hours -24 hours per year, EMS current certification hours based on the level of certification and state standards.

Calls - Must respond to at least 10% of all calls

Members on Leave – Members who are put on leave for military, school, medical, or other authorized reasons will receive a prorated stipend. This prorate will be calculated based on the months of active service.

Pay Per Call - The members of RFD will receive \$7 per call for every call made during the year. The call count goes from June 11th to June 10th of the following year.

Fire Chief - \$5,000 Assistant Chief - \$2,500 Deputy Chief - \$2,500 EMS Coordinator - \$1,500 Captain - \$625 x 4 = \$2,500 RFD Reg member Rank - \$200 EMS Certification - \$375

Changes to this program must be approved by the Riverside City Council.

REQUEST FOR PROPOSAL

SALE OF REAL ESTATE

The City of Riverside hereby requests proposals for the sale and redevelopment of a building currently owned by the City of Riverside located at 40 West 1st Street, Riverside, Iowa.

Property Details.

The property consists of approximately 2,480 square feet, a brick commercial building which is currently vacant and is zoned commercial. Surrounding property uses are also commercial uses.

Legal description:

The West 40 feet of Lot Five (5), in Block B in the Original Plat;

Also, commencing at a point on the North line of Rail Road Street, and at the Southwest corner of Lot Five (5), in Block B, thence South 15 feet, thence East 40 feet, thence North to the North line of said Rail Road Street, thence in a Southwesterly direction along the North line of said Rail Road Street to the place of beginning;

All in the Original Plat of the City of Riverside; in Washington County, Iowa,

Terms and Conditions of Sale.

The sale of the property will be subject to, but not limited to, the following conditions:

- 1. <u>Minimum Bid</u>. The City reserves the right to reject any proposal to purchase the property for an amount less than \$4,000.00.
- 2. Opportunity for Inspection. The City will allow the selected bidder a period of thirty (30) days following the date that the bidder is selected by the City to inspect the property. The bidder will be permitted to enter the property for inspection at the bidder's

COMPLETE BID PACKET AVAILABLE AT CITY HALL & WEBSITE

www.riversideiowa.gov Bids due in by 4PM, Friday, September 29,2023

I building \$130/23

Sare also \$130/23

Building part of the capture of the captur

The News X3 wks.

FOR SALE SALE OF REAL ESTATE

The City of Riverside requests proposals for the sale and redevelopment of the building located at:

40 W 1st St.

BIDS ACCEPTED UNTIL 4 P.M. ON FRIDAY, SEPT. 29, 2023

Minumum bid requirement for purchase is \$4000



Complete bid packet available at City Hall and on website:

www.riversideiowa.gov

CITY of RIVERSIDE FUND BALANCES 7-31-2023

FUND	NAME			RESERVES				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BLE FY 23
001	GENERAL	\$	670,457.83	\$ (212,370.75)			9		
002	FIRE	\$	151,190.14	\$	(151,190.14)			Service Services	458,087.08
110	R.USE	\$	14,450.68	\$	-				14 450 60
121	LOST	\$	34,493.40	\$	-		5		14,450.68
145	CASINO	\$	690,565.92	\$	-		Ç		34,493.40
301	CAP PRO	\$	496,858.13			\$			690,565.92
302	CB FUNDS	\$	1,224,242.00	\$	(1,224,242.00)	7	- \$		496,858.13
600	WATER	\$	167,383.49	\$	(82,103.25)		\$		
610	SEWER	\$	348,193.73	\$	(126,047.00)		\$		85,280.24
670	GARBAGE	\$	-	7	(120,047.00)	\$	\$		222,146.73
680	STORM	\$	7,726.31	\$	_	ې	- \$		
	TOTAL	\$	3,805,561.63	\$	(1,795,953.14)	Ċ	\$	CONTRACTOR OF THE PERSON NAMED IN	7,726.31
~			//		(4,730,333,14)	Ş	- \$	The second second	2,009,608.49
POOLED	CASH BALANCE		7/31/2023						
COMM. B	BUILDING SET A	SIDE			INTEREST RATE			New York Control	
SAV	67928	\$	1,224,242.00		0.25%				
TOTAL	302 FUND	\$	1,224,242.00		0.2370				
CHECK	35308	\$	544,140.14		0.15%				
MM	67545	\$	1,630,342.31		0.25%				
HILLS	2656940	\$	406,837.18		0.10%				
	TOTAL	\$	3,805,561.63						
LESS RESE	RVES	\$	(1,795,953.14)						
LIQUID CA	\SH	\$	2,009,608.49	7/31/:	2022			No. of the Contract of the Con	

CITY OF RIVERSIDE PAGE: 1

MTD TREASURERS REPORT

AS OF: JULY 31ST, 2023

			or cont orni	2023			
UND	BEGINNING CASH BALANCE	M-T-D REVENUES	M-T-D EXPENSES	CASH BASIS BALANCE	NET CHANGE OTHER ASSETS	NET CHANGE LIABILITIES	ACCRUAL ENDING CASH BALANCE
001-GENERAL FUND	792,760.48	24,936.31	147,615.04	CTO 001			
002-FIRE DEPARTMENT	154,685.47	1,160.53	· ·	670,081.75	0.00	376.08	670,457.83
003-EMS DEPARTMENT	0.00	0.00	4,655.86	151,190.14	0.00	0.00	151,190.14
110-ROAD USE TAX	3,775.59	11,912.79	0.00	0.00	0.00	0.00	0.00
121-LOCAL OPTION SALES TAX	20,734.83		1,237.70	14,450.68	0.00	0.00	14,450.68
125-TIF	0.00	13,758.57	0.00	34,493.40	0.00	0.00	34,493.40
145-CASINO REVENUE FUND	588,767.03	0.00	0.00	0.00	0.00	0.00	0.00
200-DEBT SERVICE		101,798.89	0.00	690,565.92	0.00	0.00	690,565.92
301-CAPITAL PROJECTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302-COMMUNITY CENTER FUNDS	499,511.88	1,790.00	4,443.75	496,858.13	0.00	0.00	496,858.13
600-WATER FUND	1,223,982.11	259.89	0.00	1,224,242.00	0.00	0.00	1,224,242.00
	170,806.20	35,091.29	38,514.00	167,383.49	0.00	0.00	
610-SEWER FUND	339,868.22	32,404.24	24,078.73	348,193.73	0.00	0.00	167,383.49
670-LANDFILL/GARBAGE	11,841.56	0.00	11,841.56	0.00	0.00	0.00	348,193.73
680-STORM WATER	6,117.99	1,608.32	0.00	7,726.31	0.00		0.00
						0.00	7,726.31
RAND TOTAL (80)	3,812,851.36	224,720.83	232,386.64	3,805,185.55	0.00	376.08	3,805,561.63
0	464424642542 4 5	=======================================			=======================================		=======================================

*** END OF REPORT ***

CITY OF RIVERSIDE POOLED CASH REPORT (FUND 999) AS OF: JULY 31ST, 2023

FUND ACCOUNT#	ACCOUNT NAME	BEGINNING BALANCE	CURRENT ACTIVITY	CURRENT BALANCE	
CLAIM ON CASH					
001-1110 CHECKING	ACCT-GENERAL FUND	792,760.48 (122,302.65)	670,457.83	
002-1110 CHECKING	ACCT-FIRE DEP.	154,685.47 (3,495.33)	151,190.14	
003-1110 CHECKING	ACCTEMS DEPT.	0.00	0.00	0.00	
	ACCT-ROAD USE TAX	3,775.59	10,675.09	14,450.68	
121-1110 CHECKING	ACCT-LOST	20,734.83	13,758.57	34,493.40	
125-1110 CHECKING		0.00	0.00	0.00	
	ACCT-CASINO REVENUE	588,767.03	101,798.89	690,565.92	
	ACCT-DEBT SERVICE	0.00	0.00	0.00	
	ACCT-CAP PROJECTS	499,511.88 (2,653.75)	496,858.13	
302-1110 COMMUNIT	-	1,223,982.11	259.89	1,224,242.00	
600-1110 CHECKING		170,806.20 (3,422.71)	167,383.49	
610-1110 CHECKING		339,868.22	8,325.51	348,193.73	
670-1110 CHECKING		11,841.56 (11,841.56)	0.00	
	ACCT-STORM WATER	6,117.99	1,608.32	7,726.31	
TOTAL CLAIM ON CA	SH	3,812,851.36 (•	3,805,561.63	
CASH IN BANK - PO					
999-1110 CASH I	·	570,246.14 (26,106.00)	544,140.14	
999-1112 MONEY		1,629,996.21	346.10	1,630,342.31	
999-1114 HILLS		388,626.90	18,210.28	406,837.18	
	ENTER FUND #67928	1,223,982.11	259.89	1,224,242.00	
	ITY BUILDING CD#18975	0.00	0.00	0.00	
	ITY BUILDING CD#19068	0.00	0.00	0.00	
SUBTOTAL CASH I	N BANK - POOLED CASH	3,812,851.36 (7,289.73)	3,805,561.63	
WAGES PAYABLE					
999-2010 WAGES	PAYABLE	0.00	0.00	0.00	
SUBTOTAL WAGES	PAYABLE	0.00	0.00	0.00	
TOTAL CASH IN BAN	K ~ POOLED CASH		7,289.73)		
DUE TO OTHER FUND	S - POOLED CASH				
999-2100 DUE TO O	THER FUNDS	3,812,851.36	7,289.73)	3,805,561.63	
TOTAL DUE TO OTHE	R FUNDS		7,289.73)		

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GAR 300 301 X-GARBAGE

301

DATES: 7/01/2023 THRU 7/31/2023

PAGE:

NUMBER# TOTAL ARREARS TOTAL CURRENT TOTAL BALANCE ACTIVE ACCOUNT RECONCILIATION ACTIVE ACCOUNTS: 544 1,239.01 76,344.43 77,583.44 NEW ACCOUNTS: 6 DISCONNECTED ACCTS: 8 93.61 272.37 365.98 DISCONNECT -- NO TRF: Я FINALED ACCOUNTS: 36 2,068.69 2,068.69 DISCONNECT-TRANSFER: 0 INACTIVE ACCOUNTS: 1,832 0.00 0.00 **GRAND TOTALS** 2,420 3,401.31 76,616.80 80,018.11 **CALCULATION SUMMARY** TOTAL CHARGES: 76,716.80 DEPOSIT RETURNS: 100.00CR TOTAL CURRENT: 76,616.80 ----- SERVICE CATEGORY TOTALS-BILLED UNBILLED TOTAL CATEGORY NUMBER TOTAL NET FUEL-ADJTOTAL TAX TAXABLE CONSUMPTION CONSUMPTION CONSUMPTION AS ANIMAL SHELT 36 69.00 0.00 0.00 0.00 GAR GARBAGE 759 7,235.50 0.00 0.00 0.00 STW STORM WATER 535 1,605.00 0.00 0.00 0.00 SWR SEWER 529 32,341.54 0.00 1,248.79 17,839.91 3656,068.0000 3656,068.0000 32,325.78 WTR WATER 538 0.00 1,891.19 31,520.76 103708,555.0000 671 103709,226.0000 ***TOTALS*** 73,576.82 0.00 3,139.98 49,360.67 REVENUE CODE TOTALS R/C DESCRIPTION G/L ACCOUNT# AMOUNT SERVICES: 100-WATER 600-4-810-1-4500 32,325.78 200-SEWER 610-4-815-1-4500 32,341.54 300-GARBAGE 001-4-950-1-4504 7,235.50 400-ANIMAL SHELTER DONATION 001-4-950-2-4700 69.00 450-STORM WATER FEE 680-4-950-4-4504 1,605.00 TAX: 190-WATER EXCISE TAX 600-4-810-1-4560 1,891,19 290-SEWER TAX 600-4-810-1-4560 1,248.79 **R/C TOTALS** 76,716.80 TABLE TOTALS CAT CODE TBL DESCRIPTION SCHED NO# TOTAL NET FUEL-ADJ TOTAL TAX TAXABLE CONSUMPTION MLT. AS 400 A10 ANIMAL SHELTER 2 A10 20.00 0.00 0.00 0.00 AS1 ANIMAL SHELTER AS1 29 29.00 0.00 0.00 0.00 400 AS2 ANIMAL SHELTER AS2 1 2.00 0.00 0.00 0.00 400 AS3 ANIMAL SHELTER AS3 1 3.00 0.00 0.00 0.00 400 AS5 ANIMAL SHELTER AS5 15.00 0.00 0.00 0.00

0.00

0.00

0.00

57.00

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** (CONTINUED) **

CAT CO	DE TBL	DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
GAR 30	0 G02	GARBAGE- 35 GAL	G02	106	1,855.00	0.00	0.00	0.00		
GAR 30	0 G03	GARBAGE - 65 GAL	G03	273	5,323.50	0.00	0.00	0.00		
GAR 30	0 R01	RECYCLING 65 GAL	RO1	328	0.00	0.00	0.00	0.00		
GAR 30	0 R02	RECYCLING 95 GAL	R02	48	0.00	0.00	0.00	0.00		
STW 45	0 ST1	STORM WATER FEE	ST1	535	1,605.00	0.00	0.00	0.00		
SWR 20	0 S01	SEWER-RESIDENTIAL	S01	473	14,209.34	0.00	0.00	0.00	1,422,218.0000	
SWR 200	0 803	SEWER-COM, IND, GOV	803	47	17,728.56	0.00	1,234.39	17,634.19	2,227,891.0000	
SWR 200	0 804	SEWER-RES SEWER ONLY	S04	4	140.00	0.00	0.00	0.00		
SWR 200	0 S06	SEWER - 150% RATE	S06	1	57.92	0.00	0.00	0.00	4,435.0000	
SWR 200	0 807	SEWER -COM O/S CITY	507	3	180.00	0.00	12.60	180.00		
SWR 200	0 808	SEWER-COM, O/S METER	S08	1	25.72	0.00	1.80	25.72	1,524.0000	
WTR 100	0 W01	WATER	WO1	519	31,415.76	0.00	1,879.22	31,321.39	3,576,626.0000	
WTR 100	0 W02	WATER - OUTSIDE CITY	W02	2	114.19	0.00	6.86	114.19	8,687.0000	
WTR 100	0 wo 3	WATER - 2ND METER	W03	6	85.18	0.00	5.11	85.18	2,197.0000	
WTR 100	0 W05	NO CHARGE	W05	. 6	0.00	0.00	0.00	0.00	100,018,143.0000	
WTR 100	O WLO	WATER - ACC CONS LOW	WLO	3	0.00	0.00	0.00	0.00		
WTR 100	0 WO4	WATER NO TAX	WO4	2	710.65	0.00	0.00	0.00	102,902.0000	
		TOTALS			73,576.82	0.00	3,139.98	49,360.67		

METER GROUP TOTALS

		BILLED	UNBILLED	TOTAL	DEMAND
CODE	DESCRIPTION	CONSUMPTION	CONSUMPTION	CONSUMPTION	CONSUMPTION
W	WATER	103,708,555.0000	671.000	103,709,226.0000	

REFUNDED DEPOSIT TOTALS

CODE	DESCRIPTION	NUMBER	AMOUNT
10	WATER DEPOSIT	1	50.00CR
20	SEWER DEPOSIT	1	50.00CR
	DEPOSIT TOTALS	2	100.00CR

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DATES: 7/01/2023 THRU 7/31/2023

BOOK:

CUSTOMER CLASS TOTALS

CLASS SERV RATE CAT CODE TABLE DESCRIPTION NUMBER TOTAL NET FUEL-ADJ TAXABLE TOTAL TAX CONSUMPTION CIT WTR 100 W05 NO CHARGE 4 0.00 0.00 0.00 0.00 100,004,685.0000 ** CLASS TOTAL ** CIT 0.00 0.00 0.00 0.00 100,004,685.0000 COM AS 400 AS1 ANIMAL SHELTER 1 1.00 0.00 0.00 0.00 COM GAR 300 GO2 GARBAGE- 35 GAL 2 35.00 0.00 0.00 0.00 COM GAR 300 G03 GARBAGE - 65 GAL 3 58.50 0.00 0.00 0.00 COM GAR 300 R01 RECYCLING 65 GAL 0.00 0.00 0.00 0.00 COM GAR 300 RO2 RECYCLING 95 GAL 1 0.00 0.00 0.00 0.00 ** CATEGORY TOTAL ** 93.50 0.00 0.00 0.00 COM STW 450 ST1 STORM WATER FEE 49 147.00 0.00 0.00 0.00 COM SWR 200 S01 SEWER-RESIDENTIAL 6 431.72 0.00 0.00 0.00 59,953.0000 COM SWR 200 S03 SEWER-COM, IND, GOV 41 17,586.15 0.00 17,586.15 1,231.03 2,216,153.0000 COM SWR 200 S07 SEWER -COM O/S CITY 3 180.00 0.00 180.00 12.60 COM SWR 200 S08 SEWER-COM, O/S METER 1 25.72 0.00 25.72 1.80 1,524.0000 ** CATEGORY TOTAL ** SWR 18,223.59 0.00 17,791.87 1,245.43 2,277,630.0000 COM WTR 100 W01 WATER 45 17,440.11 0.00 17,440.11 1,046.40 2,195,353.0000 COM WTR 100 W02 WATER - OUTSIDE CITY 1 56,27 0.00 56.27 3.38 4,252.0000 COM WTR 100 W05 NO CHARGE 2 0.00 0.00 0.00 0.00 13,458.0000 COM WTR 100 WLO WATER - ACC CONS LOW 2 0.00 0.00 0.00 0.00 COM WTR 100 WO4 WATER NO TAX 2 710.65 0.00 0.00 0.00 102,902.0000 ** CATEGORY TOTAL ** WTR 18,207.03 0.00 17,496.38 1,049.78 2,315,965.0000 ** CLASS TOTAL ** COM 36,672.12 0.00 35,288.25 2,295.21 GOV STW 450 ST1 STORM WATER FEE 2 6.00 0.00 0.00 0.00 GOV SWR 200 S03 SEWER-COM, IND, GOV 2 47.46 0.00 0.00 0.00 3,911,0000 GOV WTR 100 W01 WATER 2 47,46 0.00 0.00 0.00 3,911.0000 GOV WTR 100 WLO WATER - ACC CONS LOW 1 0.00 0.00 0.00 0.00 ** CATEGORY TOTAL ** WTR 47.46 0.00 0.00 0.00 3,911.0000 ** CLASS TOTAL ** GOV 100.92 0.00 0.00 0.00 NTX STW 450 ST1 STORM WATER FEE 1 3.00 0.00 0.00 0.00 NTX SWR 200 S03 SEWER-COM, IND, GOV 1 46.91 0.00 0.00 0.00 5,819.0000 NTX WTR 100 WO1 WATER 46.91 0.00 0.00 0.00 5,819.0000 ** CLASS TOTAL ** NTX 96.82 0.00 0.00 0.00

**** MONTHLY BILLING REPORT ****

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DATES: 7/01/2023 THRU 7/31/2023

BOOK:

----- CUSTOMER CLASS TOTALS -----

CLASS SERV RATE							
CAT CODE TABLE	DESCRIPTION	NUMBER	TOTAL NET	FUEL-ADJ	TAXABLE	TOTAL TAX	CONSUMPTION
RES AS 400 A10	ANIMAL SHELTER	2	20.00	0.00	0.00	0.00	
RES AS 400 AS1	ANIMAL SHELTER	28	28.00	0.00	0.00	0.00	
RES AS 400 AS2	ANIMAL SHELTER	1	2.00	0.00	0.00	0.00	
RES AS 400 AS3	ANIMAL SHELTER	1	3.00	0.00	0.00	0.00	
RES AS 400 AS5	ANIMAL SHELTER	3	15.00	0.00	0.00	0.00	
	** CATEGORY TOTAL **	AS	68.00	0.00	0.00	0.00	
RES GAR 300 301	X-GARBAGE	4	57.00	0.00	0.00	0.00	
RES GAR 300 G02	GARBAGE- 35 GAL	104	1,820.00	0.00	0.00	0.00	
RES GAR 300 G03	GARBAGE - 65 GAL	270	5,265.00	0.00	0.00	0.00	
RES GAR 300 R01	RECYCLING 65 GAL	324	0.00	0.00	0.00	0.00	
RES GAR 300 R02	RECYCLING 95 GAL	47	0.00	0.00	0.00	0.00	
	** CATEGORY TOTAL **	GAR	7,142.00	0.00	0.00	0.00	
RES STW 450 ST1	STORM WATER FEE	483	1,449.00	0.00	0.00	0.00	
RES SWR 200 S01	SEWER-RESIDENTIAL	467	13,777.62	0.00	0.00	0.00	1,362,265.0000
RES SWR 200 S03	SEWER-COM, IND, GOV	3	48.04	0.00	48.04	3,36	2,008.0000
RES SWR 200 S04	SEWER-RES SEWER ONLY	4	140.00	0.00	0.00	0.00	·
RES SWR 200 806	SEWER - 150% RATE	1.	57.92	0.00	0.00	0.00	4,435.0000
	** CATEGORY TOTAL **	SWR	14,023.58	0.00	48.04	3.36	1,368,708.0000
RES WTR 100 W01	WATER	471	13,881.28	0.00	13,881.28	832.82	1,371,543.0000
RES WTR 100 WO2	WATER - OUTSIDE CITY	1	57.92	0.00	57.92	3.48	4,435.0000
RES WTR 100 W03	WATER - 2ND METER	6	85.18	0.00	85.18	5.11	2,197.0000
	** CATEGORY TOTAL **	WTR	14,024.38	0.00	14,024.38	841.41	1,378,175.0000
	** CLASS TOTAL **	RES	36,706.96	0.00	14,072.42	844.77	
	** GRAND TOTALS **		73,576.82	0.00	49,360.67	3,139.98	

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======= REPORT TOTALS =======

==== B O O K C O D E T O T A L S ====

BOOK:	CURRENT +1	MONTHS	+2 MONTHS	+3 MONTHS	+4 MONTHS	BALANCE
01-BOOK 01	110.97CR	79.31	112.83	0.00	188.27	269.44
02-BOOK 02	69.62	247.46	0.00	0.00	123.81	440.89
03-BOOK 03	33.66CR	0.00	0.00	0.00	38.95	5.29
04-BOOK 04	219.73	59.79	44.89	0.00	907.06	1231.47
05-BOOK 05	84.07CR	0.00	0.00	0.00	0.00	84.07CR
06-BOOK 06	0.00	0.00	0.00	0.00	0.00	0.00
07-BOOK 07	1.28	70.63	89.67	59.11	74.79	295.48
08-BOOK 08	18.00CR	187.53	182.03	10.15	881.10	1242.81
TOTALS	43.93	644.72	429.42	69.26	2213.98	3401.31

ERRORS: 000

Income Offset Builder Water

Water OFF

Pay Plans

1232.13

951.95

527.32

87a.39

358379

182.48

AIR credit