



GREEN AREA WATER & SANITARY AUTHORITY

Water Leak Credit Request



Per Green Area Water & Sanitary Authority Water Service Ordinance #2000-3-1, customers are responsible for all water consumption on the customer side of the water meter. As such, consumption charges for water leaks that originate on the customer side of the water meter are the responsibility of the customer.

However, to provide assistance and promote goodwill, the Authority may consider crediting a water utility customer's account per policy noted in Ordinance #2000-3-1 (rental tenants not eligible for credit). For credit consideration, the water customer account holder **must complete Section 1 below**:

SECTION 1 - TO BE COMPLETED BY THE CUSTOMER

UTILITY CUSTOMER INFORMATION		(Please type or print clearly)
Customer Name: <i>Gordon Clays</i>		Service Address:
Daytime Phone: <i>541 643 1564</i>	Account Number: <i>30001058</i>	<i>4578 Cornes rd</i>
REPAIR DATE	LEAK REPAIR RECEIPTS - PLEASE ATTACH	
Date Leak Repaired: <i>9-27-23</i>	<input checked="" type="checkbox"/> Attached	
Brief Description of Leak Failure and Repair: <i>shut off valve and line into house replaced</i>		
I certify that I am the account holder and that the leak has been repaired. I request that Green Area Water & Sanitary Authority consider my request for a water leak credit.		
Customer Signature <i>Clays</i>		Date <i>9-28-23</i>

SECTION 2 - TO BE COMPLETED BY AUTHORITY BILLING DEPT

Date Form Received: <i>9/29/23</i>	Meter Read Date to use for Water Leak Credit Evaluation: <i>8/10/23 - 10/10/23</i>	If Credit Granted, Utility Bill Anticipated to Show the Credit Amount:
Estimated leak period based on consumption history (attach service history):	<i>8/10/22 - 10/10/22</i>	
Estimated normal billing during leak period: <i>44.54</i>	Leak month billing:	<i>\$333.85</i>
Past average normal billing in same billing cycle (or est avg billing if less than 1 yr of svc): <small>(NOTE: if estimating average consumption, attach calculation documentation)</small>	<i>(44.54)</i>	
Estimated leak billing of the leak billing period divided by 2=	<i>289.31 / 2</i>	<i>\$144.66</i>
Leak gallons vs. normal usage gallons:	<i>10,000 vs 1000</i>	
Calculated water leak credit amount:	<i>100.00 max</i>	<i>\$144.66</i>
Reviewer's Initials: <i>DC</i>	Approver's Initials:	<input type="checkbox"/> Credit Granted <input type="checkbox"/> Credit Denied
		If Leak Credit Granted: Date Applied: _____ Initials: _____



Precision Plumbing & Rooter, INC
 1553 Calkins Ave
 Roseburg, OR 97471 US
 541-817-9353
 Levi.precision@gmail.com

INVOICE

BILL TO

Gordon Clegg
 4578 Carnes Rd
 Roseburg, OR 97471

INVOICE # 3112

DATE 09/27/2023

DUE DATE 10/27/2023

TERMS Net 30

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
09/27/2023	Plumbing Labor	Diagnose Leak Expose piping R&R section of piping Test & inspect connections Backfill & cleanup	5	160.00	800.00
09/27/2023	Apprentice/Helper Labor	Assist in set up, digging, repair & backfill.	2	75.00	150.00
09/27/2023	Job Supplies	Pressure regulator Pex fittings Pex piping/rings Brass fittings Insulation Tyvek suits N95 mask Rags, gloves, cleaner etc.	1	256.00	256.00

Called out for potential leak under the home on what was thought to be the hose bib. Upon arrival we confirmed issues and found there was a section of galvanized piping below the foundation footing that had failed and was causing the leak. Exposed all piping and eliminated section of galvanized by re-routing a new section of pex piping which was insulated through a footing vent. Also installed a new pressure regulator in place of the original to prevent further issues and pressure inconsistencies due to age and condition. Returned 9/28 after hole was completely pumped out and backfilled using customer provided rock and cleaned surrounding area of debris.

Recommend having an electrician evaluate whether or not there is a proper grounding rod needs installed for electrical panel, we removed the ground section of piping that's attached to the ground wire.

Thank you!

BALANCE DUE

\$1,206.00



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However, to provide assistance and promote goodwill, the Authority may consider crediting a water utility customer's account per policy noted in Ordinance #2000-3-1 (rental tenants not eligible for credit). For credit consideration, the water customer account holder **must complete Section 1 below**.

SECTION 1 - TO BE COMPLETED BY THE CUSTOMER

UTILITY CUSTOMER INFORMATION		(Please type or print clearly)
Customer Name: Carl Vian	Service Address: 1973 Linnell Ave Roseburg, OR 97471	
Daytime Phone: 541-733-0728	Account Number: 11526000	
REPAIR DATE	LEAK REPAIR RECEIPTS - PLEASE ATTACH	
Date Leak Repaired: 9-15-2023	<input checked="" type="checkbox"/> Attached rented ditchwitch - Tim Allen receipts Also filed cash \$300 for someones help	
Brief Description of Leak Failure and Repair: Noticed wet ground and outdoor faucet leak, repaired faucet, realized the wet ground got worse then realized it was the water main, had to rent equipment and replace water main		
I certify that I am the account holder and that the leak has been repaired. I request that Green Area Water & Sanitary Authority consider my request for a water leak credit.		
Customer Signature: [Signature]	Date: 10/06/2023	

SECTION 2 - TO BE COMPLETED BY AUTHORITY BILLING DEPT

RECEIVED	Date Form Received: OCT 26 2023	Meter Read Date to use for Water Leak Credit Evaluation: 5/10/23 - 8/10/23	If Credit Granted, Utility Bill Anticipated to Show the Credit Amount:
BY:	Estimated leak period based on consumption history (attach service history): 5/10/22 - 8/10/22		
	Estimated normal billing during leak period: 254.25	Leak month billing: 413.85	
	Past average normal billing in same billing cycle (or est avg billing if less than 1 yr of svc): (254.25)		
	Estimated leak billing of the leak billing period divided by 2 = 159.60 / 2 = 79.80		
	Leak gallons vs. normal usage gallons: 12,09000 Vs 70200 64,200		
	Calculated water leak credit amount: \$ 79.80		
Reviewer's Initials: DC	Approver's Initials:	<input type="checkbox"/> Credit Granted <input type="checkbox"/> Credit Denied	If Leak Credit Granted: Date Applied: _____ Initials: _____

CARL & SHANNON VIAN

1973 LINNELL AVE

DTD	BILLED	SUB SEWER	WATER ONLY
8/24/23	194.95	38	156.95
7/25/23	183.55	38	145.55
6/22/23	149.35	38	111.35

413.85 LEAK BILLING MONTH

DTD	BILLED	SUB SEWER	WATER ONLY
8/24/22	132.25	38	94.25
7/22/22	132.25	38	94.25
6/23/22	120.85	38	82.85

adjusted for garden watering 2,000 gal/mo

254.25 271.35 EST NORMAL BILLING DURING LEAK PERIOD

413.85 LEAK BILLING MONTH

254.25 271.35 PAST AVG NORMAL BILLING

159.60 142.50 SUB TOTAL

EST LEAK BILLING OF THE LEAK BILLING

159.60 142.50 PERIOD DIVIDED BY 2

79.80 71.25 CALCULATED WATER LEAK CREDIT AMOUNT

PRIOR READ DTD	CURRENT READ DTD	ACTUAL
7/10/23	8/10/23	47000
6/10/23	7/10/23	43300
5/10/23	6/10/23	30600
		120900

PRIOR READ DTD	CURRENT READ DTD	ACTUAL
7/10/22	8/10/22	24500
6/10/22	7/10/22	24800
5/10/22	6/10/22	20900
		70200

Office

From: Shannon Vian <shannon.vian@yahoo.com>
Sent: Thursday, October 26, 2023 4:38 PM
To: Office
Subject: Re: 1973 Linnell Ave Roseburg Oregon

I know you're comparing our water bills from last year or year past with our current usage. This is the only year we have not had a garden all summer. In years past, we've has gardens as well. And a have not been using a washing machine either as we need it repaired or replaced too. So actual water consumption should've been much lower this summer

[Sent from Yahoo Mail on Android](#)

On Thu, Oct 26, 2023 at 4:34 PM, Shannon Vian <shannon.vian@yahoo.com> wrote:

Trencher receipt

[Sent from Yahoo Mail on Android](#)

RECEIVED

OCT 27 2023

BY: _____



GREEN AREA WATER & SANITARY AUTHORITY

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However, to provide assistance and promote goodwill, the Authority may consider crediting a water utility customer's account per policy noted in Ordinance #2000-3-1 (rental tenants not eligible for credit). For credit consideration, the water customer account holder **must complete Section 1 below**.

SECTION 1 - TO BE COMPLETED BY THE CUSTOMER

UTILITY CUSTOMER INFORMATION		(Please type or print clearly)
Customer Name: <i>Ana P Orozco</i>		Service Address: <i>115 Rowan St</i>
Daytime Phone: <i>541-802-6649</i>	Account Number: <i>6718000</i>	
REPAIR DATE	LEAK REPAIR RECEIPTS - PLEASE ATTACH	
Date Leak Repaired: <i>Oct 10th</i>	<input type="checkbox"/> Attached <i>Plumber friend fixed</i>	
Brief Description of Leak Failure and Repair: <i>Pipe was cracked</i>		
I certify that I am the account holder and that the leak has been repaired. I request that Green Area Water & Sanitary Authority consider my request for a water leak credit.		
Customer Signature: <i>Ana Orozco</i>	Date: <i>Oct 19th</i>	

SECTION 2 - TO BE COMPLETED BY AUTHORITY BILLING DEPT

Date Form Received: <i>10/19/23</i>	Meter Read Date to use for Water Leak Credit Evaluation: <i>5/10/23 - 10/10/23</i>	If Credit Granted, Utility Bill Anticipated to Show the Credit Amount:
Estimated leak period based on consumption history (attach service history):		<i>05/10/22 - 10/10/22</i>
Estimated normal billing during leak period: <i>360.10</i>	Leak month billing:	<i>514.00</i>
Past average normal billing in same billing cycle (or est avg billing if less than 1 yr of svc): <small>(NOTE: if estimating average consumption, attach calculation documentation)</small>		<i>(360.10)</i>
Estimated leak billing of the leak billing period divided by 2=		<i>153.90 / 2 = \$76.95</i>
Leak gallons vs. normal usage gallons: <i>140,100 VS 86700</i>		
Calculated water leak credit amount:		<i>\$76.95 ✓</i>
Reviewer's Initials: <i>JC</i>	Approver's Initials:	<input type="checkbox"/> Credit Granted <input type="checkbox"/> Credit Denied
		If Leak Credit Granted: Date Applied: _____ Initials: _____

MINUTES OF THE GREEN AREA WATER & SANITARY AUTHORITY
BOARD OF DIRECTORS MEETING
October 12, 2023

Board Chair Tracey Parker called the regular Board meeting to order at 5:00pm.

BOARD DIRECTORS PRESENT:

Tracey Parker, Chair
Brenda Kingry, Treasurer
Carolyn White
Steve Lusch
Tom Fullbright

BOARD DIRECTORS ABSENT:

None

GAWSA STAFF PRESENT:

David Campos, General Manager
Alan Paulson, Operations Manager
Shannon Miller, Collection System Supervisor

ALSO PRESENT:

Chris Sherlock, Winston-Green Wastewater Facility Superintendent
Earl Pennington, Jr., GAWSA Customer

Mr. Pennington addressed the Board to provide his opinion on the potential billing policy changes. Mr. Pennington expressed that he does not feel that property owners should bear the sole responsibility for utility service fees. As a landlord, Mr. Pennington is concerned that a disgruntled tenant could potentially leave the water running, leaving him responsible to pay a high water bill, and in the case of a duplex rental, there would be no way to tell which tenant was using what portion of the water.

General Manager David Campos acknowledged Mr. Pennington's concerns and stated that 1) if a tenant is disgruntled, they will find a way to damage the property regardless, and 2) there are ways to monitor water usage in a duplex, such as installing privately-owned water meters, similar to a mobile home park.

David stated that the recommended changes to the billing policy are to make the billing process more efficient and keep costs down, as the consolidation of water and sewer billings has made the billing process overly complex. David stated that the Authority must also consider all its customers in policymaking.

Director Tom Fullbright asked Mr. Pennington what he would like to see with the billing policy. Mr. Pennington said that he would be willing to be responsible for his tenants' utility accounts in the event they did not pay. Director Fullbright asked David if that is something GAWSA could accommodate. David replied that he did not believe that Oregon statutes allow for a "owner-cosigner" on a utility account.

MINUTES OF THE GREEN AREA WATER & SANITARY AUTHORITY
BOARD OF DIRECTORS MEETING
October 12, 2023

After brief discussion, it was clarified that no changes to the billing policies had yet been adopted. Mr. Pennington thanked the Board and exited the meeting.

For the Consent Agenda, Director Steve Lusch asked why the Board needs to approve leak adjustment requests, rather than management approving them. The current ordinance requires that the Board approve leak adjustment requests. It was discussed that the policy changed by changed. Director Lusch made a motion to approve the following leak adjustment requests:

- Jacqui Server-Garcia, \$45.60
- Linda Anderson, \$47.03
- Barbara Little, \$109.73

Director Carolyn White seconded the motion. The motion was unanimously approved.

Director Fullbright made a motion to approve the September meeting minutes and accounts payable. Director Lusch seconded the motion. The motion passed unanimously.

David Campos presented the General Manager's report. David informed the Board that the 2023 SDAO Best Practices Checklist is centered around emergency preparedness. David stated that GAWSA operations currently has an adopted Emergency Response Plan (ERP) in place, and the admin staff will add an administrative department section to the ERP.

David added that while the Authority is well protected against cyber-crime, he would like to implement two additional safety features: dual-factor authentication and .gov website migration. David stated that there are grant funds available for these projects.

David informed the Board that he is still working on consolidating and updating accounting records. David stated that he is certain that he would like to search for a new accounting system to help automate some of the accounting functions. David will budget for this in the 2024-2025 year.

David stated that GAWSA will be holding a Christmas party for employees, board members, and their guests on December 16.

Collections System Supervisor Shannon Miller presented the sanitary operations report. Shannon stated construction on a new mental health care facility has begun on the hill next to the highway.

Shannon informed the Board that a gravity system extension is being designed for the Doris St/Happy Valley Rd area, which will allow for sewer service to additional commercial properties. The property owners will be funding that project.

Shannon added that the backup CCTV camera head a small tractor are sent off for repair. Discussion regarding the CCTV system followed.

MINUTES OF THE GREEN AREA WATER & SANITARY AUTHORITY
BOARD OF DIRECTORS MEETING
October 12, 2023

Operations Manager Alan Paulson delivered the water operations report. Alan stated that Ben Tatone is extending a main water line on Oly Lane for additional development.

Alan informed the Board that MIOX is investigating the power units and cells prior to replacing any parts.

Alan stated that he and Jeremy attended a training class for the SPIRE Grant water treatment trailer. The trailer should be operational soon.

Alan informed the Board that on September 26 a hydrant had blown off and we experienced a significant water leak, approximately 2 million gallons. The leak occurred the night before and was discovered the next day.

Alan stated that operator Trev Carlson passed his Water Distribution Level 1 test.

Chris Sherlock, Wastewater Treatment Facility Superintendent presented his report. Chris presented a purchase request to the Board, for an Aeration Basin Blower with a cost of \$112,630. GAWSA's portion of the cost would be \$56,315. Director Brenda Kingry made a motion to approve the purchase. Director Lusch seconded the motion. The motion passed unanimously.

A brief discussion on the billing policies resumed.

There being no further business for the good of the order, Director Fullbright made a motion to adjourn the meeting. Director Kingry seconded the motion. The motion passed unanimously, and Chairperson Parker adjourned the meeting at 5:54pm.

Board Member

Tracey Parker, Board Chair

Green Area Water & Sanitary Authority
GAWSA Expense Detail
October 2023

Type	Date	Num	Name	Memo	Debit	Balance
506-1 · Health Ins Benefits- WA						
Check	10/12/2023	11204	SDIS	November health and supplemental ins prems	4,079.48	4,079.48
Total 506-1 · Health Ins Benefits- WA					4,079.48	4,079.48
506-2 · Health Ins Benefits - SA						
Check	10/12/2023	11204	SDIS	November health and supplemental ins prems	4,079.47	4,079.47
Total 506-2 · Health Ins Benefits - SA					4,079.47	4,079.47
512-1 · Legal Fees - WAdmin						
Check	10/03/2023	11189	NORTHWEST LOCAL GOVERNMEN...	Inv #13567 / consult re: are SDC's negotiable	165.00	165.00
Total 512-1 · Legal Fees - WAdmin					165.00	165.00
515-1 · Office Supplies - WA						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Costcochecks.com - AP check reorder	33.00	33.00
Check	10/02/2023	11188	CARDMEMBER SERVICE	Primo Water - office bottled water	19.48	52.48
Check	10/02/2023	11188	CARDMEMBER SERVICE	Costco - bathroom tissue, hand towels, toilet seat, stamps	65.36	117.84
Check	10/02/2023	11188	CARDMEMBER SERVICE	Sherms - napkins	7.24	125.08
Check	10/12/2023	11192	CANON SOLUTIONS AMERICA, INC.	Inv #6005572003 / Office copier maintenance 8/20 - 9/19	24.53	149.61
Check	10/12/2023	11206	STAPLES CONTRACT	Inv #8071700824 / coffee, ballpoint pens	86.23	235.84
Check	10/31/2023	11219	CANON SOLUTIONS AMERICA, INC.	Inv #6005889291 / Office copier maintenance 9/20 - 10/19	28.94	264.78
Total 515-1 · Office Supplies - WA					264.78	264.78
515-2 · Office Supplies - SA						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Costcochecks.com - AP check reorder	33.01	33.01
Check	10/02/2023	11188	CARDMEMBER SERVICE	Vistaprint - Business card order for SM	23.98	56.99
Check	10/02/2023	11188	CARDMEMBER SERVICE	Primo Water - office bottled water	19.47	76.46
Check	10/02/2023	11188	CARDMEMBER SERVICE	Costco - bathroom tissue, hand towels, toilet seat, stamps	65.36	141.82
Check	10/02/2023	11188	CARDMEMBER SERVICE	Sherms - napkins	7.24	149.06
Check	10/12/2023	11192	CANON SOLUTIONS AMERICA, INC.	Inv #6005572003 / Office copier maintenance 8/20 - 9/19	24.53	173.59
Check	10/12/2023	11206	STAPLES CONTRACT	Inv #8071700824 / coffee, ballpoint pens	86.24	259.83
Check	10/31/2023	11219	CANON SOLUTIONS AMERICA, INC.	Inv #6005889291 / Office copier maintenance 9/20 - 10/19	28.94	288.77
Total 515-2 · Office Supplies - SA					288.77	288.77
516-1 · Communication & IT						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Right Networks - Office365, Transaction Pro Deleter/Importer/Exporter	47.48	47.48
Check	10/12/2023	11195	DOUGLAS FAST NET	Water office phone/fax/internet	145.37	192.85
Check	10/12/2023	11208	SYSTECH CONSULTING, LLC	Inv #10280 / Managed service plan - September	577.00	769.85
Paycheck	10/31/2023	DD1748	Campos, David M	Direct Deposit	50.00	819.85
Total 516-1 · Communication & IT					819.85	819.85
516-2 · Communication & IT - S						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Right Networks - Office365, Transaction Pro Deleter/Importer/Exporter	47.47	47.47
Check	10/12/2023	11195	DOUGLAS FAST NET	Sewer office phone/fax/internet	294.70	342.17
Check	10/12/2023	11208	SYSTECH CONSULTING, LLC	Inv #10280 / Managed service plan - September	577.00	919.17
Total 516-2 · Communication & IT - S					919.17	919.17
517-1 · Utilities- WA						
Check	10/02/2023	11184	AVISTA UTILITIES	Natural gas service water office 8/22 - 9/21	17.00	17.00
Check	10/31/2023	11218	AVISTA UTILITIES	Natural gas service water office 9/21 - 10/20	19.84	36.84
Total 517-1 · Utilities- WA					36.84	36.84

Green Area Water & Sanitary Authority
GAWSA Expense Detail
October 2023

Type	Date	Num	Name	Memo	Debit	Balance
517-2 · Utilities- SA						
Check	10/02/2023	11184	AVISTA UTILITIES	Natural gas service sewer office 8/22 - 9/21	17.00	17.00
Check	10/31/2023	11218	AVISTA UTILITIES	Natural gas service sewer office 9/21 - 10/20	17.00	34.00
Total 517-2 · Utilities- SA					34.00	34.00
518-1 · R & M Office - WA						
Check	10/12/2023	11196	EXODUS PEST CONTROL	Inv #73738 / water office pest control	28.00	28.00
Check	10/12/2023	11202	OREGON LINEN	Inv #998292 / Rug service water office	69.90	97.90
Total 518-1 · R & M Office - WA					97.90	97.90
523-1 · Dues & Subscriptions - WA						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Shutterstock - monthly subscription	15.00	15.00
Check	10/02/2023	11188	CARDMEMBER SERVICE	Costco - Membership renewal	90.00	105.00
Total 523-1 · Dues & Subscriptions - WA					105.00	105.00
523-2 · Dues & Subscriptions - SA						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Shutterstock - monthly subscription	14.00	14.00
Check	10/02/2023	11188	CARDMEMBER SERVICE	Costco - Membership renewal	90.00	104.00
Total 523-2 · Dues & Subscriptions - SA					104.00	104.00
525-1 · Misc. Expense - WA						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Crumbl - cookies for safety meeting	20.83	20.83
Check	10/02/2023	11188	CARDMEMBER SERVICE	Loggers Pizza - lunch for office training	32.00	52.83
Check	10/02/2023	11188	CARDMEMBER SERVICE	Cardmember service - Interest charge	62.82	115.65
Total 525-1 · Misc. Expense - WA					115.65	115.65
525-2 · Misc Expense - SA						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Crumbl - cookies for safety meeting	20.82	20.82
Check	10/02/2023	11188	CARDMEMBER SERVICE	Loggers Pizza - lunch for office training	32.00	52.82
Check	10/02/2023	11188	CARDMEMBER SERVICE	Cardmember service - Interest charge	62.82	115.64
Total 525-2 · Misc Expense - SA					115.64	115.64
530-1 · Utility Mgmt Solution/CWP - WA						
Check	10/31/2023	11220	CONTINENTAL UTILITY SOLUTIONS,...	Inv # U34380 / Annual CWP Web Portal service	1,000.00	1,000.00
Total 530-1 · Utility Mgmt Solution/CWP - WA					1,000.00	1,000.00
530-2 · Utility Mgmt Solution/CWP - SA						
Check	10/31/2023	11220	CONTINENTAL UTILITY SOLUTIONS,...	Inv # U34380 / Annual CWP Web Portal service	1,000.00	1,000.00
Total 530-2 · Utility Mgmt Solution/CWP - SA					1,000.00	1,000.00
531-1 · Statement Printing/Mailing - WA						
Check	10/15/2023	ACH	BMS TECHNOLOGIES	Inv #88131 / October billing statements printing and mailing	1,059.85	1,059.85
Total 531-1 · Statement Printing/Mailing - WA					1,059.85	1,059.85
531-2 · Statement Printing/Mailing - SA						
Check	10/15/2023	ACH	BMS TECHNOLOGIES	Inv #88131 / October billing statements printing and mailing	1,059.85	1,059.85
Total 531-2 · Statement Printing/Mailing - SA					1,059.85	1,059.85

Green Area Water & Sanitary Authority
GAWSA Expense Detail
October 2023

Type	Date	Num	Name	Memo	Debit	Balance
532-1 · IVR System Costs - WA						
Check	10/12/2023	11198	IVR TECHNOLOGY GROUP	Inv #IV18392 / Sept IVR maintenance and tx fees	60.76	60.76
Total 532-1 · IVR System Costs - WA					60.76	60.76
532-2 · IVR System Costs - SA						
Check	10/12/2023	11198	IVR TECHNOLOGY GROUP	Inv #IV18392 / Sept IVR maintenance and tx fees	60.76	60.76
Total 532-2 · IVR System Costs - SA					60.76	60.76
533-1 · Merchant Service Fees - WA						
Check	10/31/2023	11220	CONTINENTAL UTILITY SOLUTIONS,...	Inv # R17044 / September merchant service fees	1,008.44	1,008.44
Check	10/31/2023	11220	CONTINENTAL UTILITY SOLUTIONS,...	Inv # R17154 / September ACH and eCheck fees	5.35	1,013.79
Total 533-1 · Merchant Service Fees - WA					1,013.79	1,013.79
533-2 · Merchant Service Fees - SA						
Check	10/31/2023	11220	CONTINENTAL UTILITY SOLUTIONS,...	Inv # R17044 / September merchant service fees	1,008.44	1,008.44
Check	10/31/2023	11220	CONTINENTAL UTILITY SOLUTIONS,...	Inv # R17154 / September ACH and eCheck fees	5.35	1,013.79
Total 533-2 · Merchant Service Fees - SA					1,013.79	1,013.79
535-1 · Contract Services - Meter Reads						
Check	10/12/2023	11200	METEREADERS, LLC	Inv #10970 / September meter readings	2,530.40	2,530.40
Total 535-1 · Contract Services - Meter Reads					2,530.40	2,530.40
606-1 · Health Ins. Benefits - WO						
Check	10/12/2023	11204	SDIS	November health and supplemental ins prems	12,279.65	12,279.65
Total 606-1 · Health Ins. Benefits - WO					12,279.65	12,279.65
606-2 · Health Ins. Benefits - SO						
Check	10/12/2023	11204	SDIS	November health and supplemental ins prems	6,092.04	6,092.04
Total 606-2 · Health Ins. Benefits - SO					6,092.04	6,092.04
610-1 · Vehicle/Equipment O & M - WO						
Check	10/12/2023	11190	NAPA AUTO PARTS	Inv #905278 / PO 18285 / T-switch for Vactron	25.99	25.99
Check	10/12/2023	11191	BASSETT-HYLAND ENERGY	Inv #CL19622 / trucks and equipment fuel 9/15 - 9/30	412.91	438.90
Check	10/30/2023	11217	BASSETT-HYLAND ENERGY	Inv #CL20011 / trucks and equipment fuel 10/1 - 10/15	161.02	599.92
Total 610-1 · Vehicle/Equipment O & M - WO					599.92	599.92
610-2 · Vehicle/Equipment O & M - SO						
Check	10/02/2023	11188	CARDMEMBER SERVICE	UPS - Shipping for sewer camera repair	285.00	285.00
Check	10/12/2023	11191	BASSETT-HYLAND ENERGY	Inv #CL19622 / trucks and equipment fuel 9/15 - 9/30	86.08	371.08
Check	10/30/2023	11217	BASSETT-HYLAND ENERGY	Inv #CL20011 / trucks and equipment fuel 10/1 - 10/15	341.61	712.69
Total 610-2 · Vehicle/Equipment O & M - SO					712.69	712.69
611-1 · Dues/Fees/Subscriptions- WO						
Check	10/12/2023	11201	ONE CALL CONCEPTS, INC.	Inv #3090705 / September locate tickets	22.40	22.40
Total 611-1 · Dues/Fees/Subscriptions- WO					22.40	22.40

Green Area Water & Sanitary Authority
GAWSA Expense Detail
October 2023

Type	Date	Num	Name	Memo	Debit	Balance
611-2 · Dues/Fees/Subscriptions- SO						
Check	10/12/2023	11201	ONE CALL CONCEPTS, INC.	Inv #3090705 / September locate tickets	22.40	22.40
Total 611-2 · Dues/Fees/Subscriptions- SO					22.40	22.40
612-1 · Communication & IT - Ops						
Check	10/02/2023	11187	VERIZON WIRELESS	Inv #9944834744 / tablet line	51.27	51.27
Check	10/12/2023	11195	DOUGLAS FAST NET	Carnes shop internet	86.39	137.66
Check	10/12/2023	11195	DOUGLAS FAST NET	WTP phone/fax/internet/alarm line	131.24	268.90
Paycheck	10/31/2023	DD1749	Carlson, Trev W	Direct Deposit	50.00	318.90
Paycheck	10/31/2023	DD1752	Hope, Will T	Direct Deposit	50.00	368.90
Paycheck	10/31/2023	DD1753	Manson, Joshua T.	Direct Deposit	50.00	418.90
Paycheck	10/31/2023	DD1755	Paulson, Alan D.	Direct Deposit	50.00	468.90
Paycheck	10/31/2023	DD1756	Radford, Daniel L.	Direct Deposit	50.00	518.90
Paycheck	10/31/2023	DD1759	Wolford, Jeremy J.	Direct Deposit	50.00	568.90
Total 612-1 · Communication & IT - Ops					568.90	568.90
612-2 · Communication & IT - SO						
Paycheck	10/31/2023	DD1750	Chasteen, Matthew S.	Direct Deposit	50.00	50.00
Paycheck	10/31/2023	DD1754	Miller, Shannon L.	Direct Deposit	50.00	100.00
Total 612-2 · Communication & IT - SO					100.00	100.00
613-1 · Travel & Training - WO						
Check	10/02/2023	11185	SAFETY DIRECTIONS, LLC	Inv #11024 / PO 18291 / Asbestos course AP, WH, DR	952.72	952.72
Total 613-1 · Travel & Training - WO					952.72	952.72
613-2 · Travel & Training - SO						
Check	10/02/2023	11185	SAFETY DIRECTIONS, LLC	Inv #11024 / PO 18291 / Asbestos course AP, SM, MC	952.73	952.73
Total 613-2 · Travel & Training - SO					952.73	952.73
615-1 · Misc Expense - WO						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Costco - bathroom tissue, hand towels	19.99	19.99
Check	10/12/2023	11206	STAPLES CONTRACT	Inv #8071700824 / clipboards	6.10	26.09
Total 615-1 · Misc Expense - WO					26.09	26.09
615-2 · Misc Expense - SO						
Check	10/12/2023	11206	STAPLES CONTRACT	Inv #8071700824 / clipboards	6.11	6.11
Total 615-2 · Misc Expense - SO					6.11	6.11
620-1 · R & M Water Distribution						
Check	10/12/2023	11207	STRATTON BROS. INC.	Inv #2023-421 / PO 18292 / asphalt patching - Landers, Castle, Del Mar, Palos Verdes	2,017.00	2,017.00
Check	10/12/2023	11212	CORIX WATER PRODUCTS, INC.	Inv #U2316039609 / PO 18282 / pvc adapter, gate valve for blow off repair	221.50	2,238.50
Check	10/12/2023	11212	CORIX WATER PRODUCTS, INC.	Inv #U2316039610 / PO 18283 / 6" ROMAC repair band	357.63	2,596.13
Total 620-1 · R & M Water Distribution					2,596.13	2,596.13
621-1 · R & M - Dist Shop						
Check	10/12/2023	11211	WINSTON SANITARY SERVICE	Inv #298866 / 200 Gal weekly dumpster - Carnes	94.25	94.25
Total 621-1 · R & M - Dist Shop					94.25	94.25

Green Area Water & Sanitary Authority
GAWSA Expense Detail
October 2023

Type	Date	Num	Name	Memo	Debit	Balance
622-1 · Tools & Supplies - Distribution						
Check	10/12/2023	11190	NAPA AUTO PARTS	Inv #903656 / PO 18265 / terry cloth shop rags	39.98	39.98
Check	10/12/2023	11199	LONG'S BUILDING SUPPLY	Inv #375963 / PO 18268 / brass hose adapter for bulk meter	5.69	45.67
Total 622-1 · Tools & Supplies - Distribution					45.67	45.67
624-1 · Utilities - Water Dist WO						
Check	10/02/2023	11184	AVISTA UTILITIES	Natural gas service Highland PS 8/22 - 9/21	21.87	21.87
Check	10/02/2023	11184	AVISTA UTILITIES	Natural gas service Carnes shop 8/22 - 9/21	45.29	67.16
Check	10/31/2023	11218	AVISTA UTILITIES	Natural gas service Highland PS 9/21 - 10/20	18.60	85.76
Check	10/31/2023	11218	AVISTA UTILITIES	Natural gas service Carnes shop 9/21 - 10/20	43.42	129.18
Total 624-1 · Utilities - Water Dist WO					129.18	129.18
626-1 · Water Samples - WO						
Check	10/12/2023	11209	UMPQUA RESEARCH	Inv #M071969 / 8 coliform tests	192.00	192.00
Check	10/12/2023	11209	UMPQUA RESEARCH	Inv #M072024 / 2 TOC, 1 Alkalinity test	147.50	339.50
Total 626-1 · Water Samples - WO					339.50	339.50
627-1 · Backflow Tests- WO						
Check	10/02/2023	11186	SO BACKFLOW TECHS	Inv #63329 / 9 non-comp backflow tests	270.00	270.00
Check	10/12/2023	11205	SO BACKFLOW TECHS	Inv #63389 / 3 non-comp backflow tests + 1 repair	152.95	422.95
Total 627-1 · Backflow Tests- WO					422.95	422.95
628-1 · Inventory Adjustment W						
Check	10/12/2023	11193	CONSOLIDATED SUPPLY CO.	Inv #S011561524.001 / PO 18294 / 10 ball valves and lever handles	1,008.58	1,008.58
Check	10/12/2023	11193	CONSOLIDATED SUPPLY CO.	Inv #S011587263.001 / PO 18295 / 100 3/4" inserts	318.60	1,327.18
Check	10/12/2023	11210	UMPQUA QUARRIES, LLC	Inv #66646 / PO 18275 / crushed rock inventory	632.62	1,959.80
Check	10/12/2023	11212	CORIX WATER PRODUCTS, INC.	Inv #U2316037411 / PO 18301 / 12 angle meter stops	1,789.68	3,749.48
Total 628-1 · Inventory Adjustment W					3,749.48	3,749.48
641-2 · R & M Lines & Manholes - SO						
Check	10/12/2023	11212	CORIX WATER PRODUCTS, INC.	Inv #U2316038214 / PO 18266 / parts for sanitary inventory	1,397.33	1,397.33
Check	10/12/2023	11212	CORIX WATER PRODUCTS, INC.	Inv #U2316039612 / PO 18281 / parts for sanitary inventory	181.76	1,579.09
Total 641-2 · R & M Lines & Manholes - SO					1,579.09	1,579.09
642-2 · Tools & Supplies - SO						
Check	10/02/2023	11188	CARDMEMBER SERVICE	Walgreens - #2032 batteries	19.99	19.99
Check	10/02/2023	11188	CARDMEMBER SERVICE	Amazon - PO 18279 / Power tool batteries and chargers	175.24	195.23
Check	10/12/2023	11197	INSTRUMENT TECHNOLOGY CORP	Inv #22516 / PO 18293 / push camera repair	1,083.61	1,278.84
Total 642-2 · Tools & Supplies - SO					1,278.84	1,278.84
647-2 · G4 Pumpstation - SO						
Check	10/12/2023	11195	DOUGLAS FAST NET	G4 pumpstation alarm line	14.52	14.52
Total 647-2 · G4 Pumpstation - SO					14.52	14.52

Green Area Water & Sanitary Authority
GAWSA Expense Detail
October 2023

Type	Date	Num	Name	Memo	Debit	Balance
701-1 · WTP Tools & Supplies						
Check	10/12/2023	11190	NAPA AUTO PARTS	Inv #905200 / PO 18277 / GOJO orange hand cleaer	18.49	18.49
Check	10/12/2023	11192	CANON SOLUTIONS AMERICA, INC.	Inv #6005572003 / Water Plant copier maintenance 8/20 - 9/19	7.31	25.80
Check	10/12/2023	11194	DOUGLAS CO. FARMERS CO-OP	Inv #59065 / PO 18271 / Hand soap, trash bags	45.77	71.57
Check	10/31/2023	11219	CANON SOLUTIONS AMERICA, INC.	Inv #6005889291 / Water Plant copier maintenance 9/20 - 10/19	9.64	81.21
Total 701-1 · WTP Tools & Supplies					81.21	81.21
704-1 · WTP Chemicals						
Check	10/02/2023	11183	NORTHSTAR CHEMICAL, INC.	Inv #262688 / PO 18284 / 46,380# Aluminum Chlorohydrate M-1883	27,132.30	27,132.30
Total 704-1 · WTP Chemicals					27,132.30	27,132.30
TOTAL					79,823.52	79,823.52

GREEN AREA WATER & SANITARY AUTHORITY
GENERAL MANAGER'S REPORT
November 9, 2023

2024 Property/Casualty Insurance Renewal

Our annual SDIS policy renewal is approaching. The estimated premium increase will be 15-18%. While we will receive 10% credit off our premium for the Best Practices Checklist, SDIS has announced it is putting a hold on issuing longevity credits for the 24-25 policy cycle due to diminishing investment returns. Our 2023 Longevity credit was \$6,533

Prior Meeting Consent Agenda Follow-up

At last month's meeting, we had a conversation with Earl Pennington Jr. regarding GAWSA's proposed billing changes. I would like to follow-up with the Board on a couple questions that were raised. I will cover:

Areas to address:

- Who should be responsible for water/sewer bills?
- Challenges GAWSA staff faces in billing utility accounts
- Time/Resources involved

Meter Reading Service

We have been dealing with water meter reading delays and declines in service in recent months. Unfortunately, I do not expect the level of service we have received during our several-years relationship with Meterreaders to fully recover anytime soon. We have been working with the meter reader and management to get to a manageable service level so as to not delay billings.

Potential Reimbursement District Request

Valynn Currie approached us regarding the possibility of forming a Reimbursement District for water and sewer line improvements made in which a portion of the costs are being disputed by Inspired Healthcare Capital, the developer of the senior housing facility under construction off Grant Smith Road. Should Ms. Currie apply for a reimbursement district, I have informed her of the application process.

Green Area Water & Sanitary Authority
Customer Payment History - Summary

Sort Order : Payment Source
 From: 10/1/2023 Through: 10/31/2023

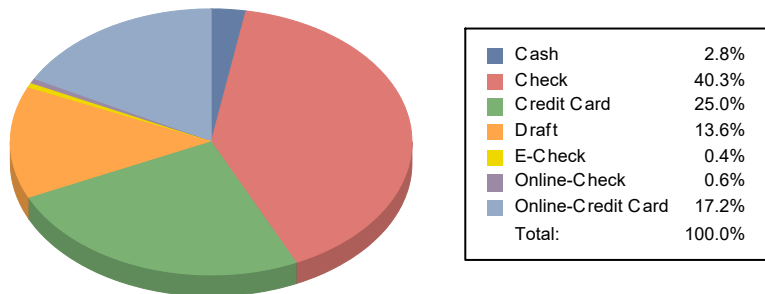
Payment Method	Quantity	Payment Amount
Cash	91	\$7,399.62
Check	1,296	\$159,444.92
Credit Card	804	\$75,232.40
Draft	438	\$45,240.52
E-Check	13	\$1,325.20
Online-Check	20	\$1,985.74
Online-Credit Card	553	\$50,604.00

Summary totals do not include reversed/transferred payments.

Service	Trans. Amount
Miscellaneous	\$(14,314.58)
Second Level Charge	\$(835.00)
Service Charge	\$(81,236.21)
Sewer	\$(123,212.88)
Water	\$(121,633.73)
Totals	\$(341,232.40)

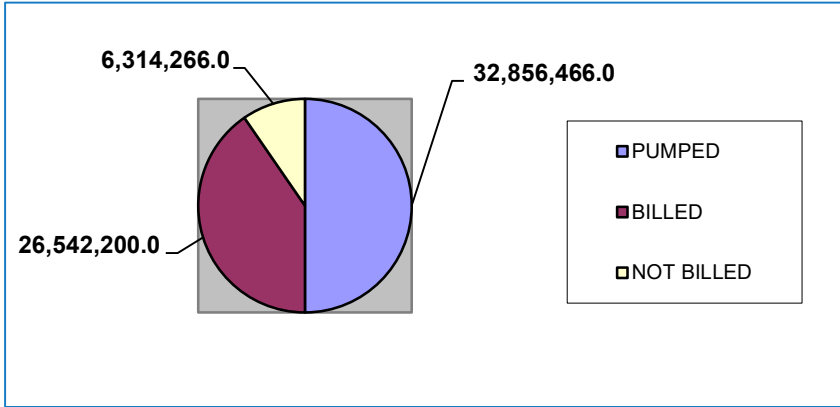
Payment Method	Quantity	Payment Amount
Payment Source		
Amount		
Autopay		
Credit Card		\$(48,259.15)
Draft		\$(45,240.52)
		\$(93,499.67)
Customer Portal		
Online-Check		\$(1,985.74)
Online-Credit Card		\$(50,597.00)
		\$(52,582.74)
IVR		
Credit Card		\$(2,429.06)
E-Check		\$(223.35)
		\$(2,652.41)
Lockbox		
Check		\$(141,924.72)
		\$(141,924.72)
Manual		
Cash		\$(7,399.62)
Check		\$(17,520.20)
Credit Card		\$(24,544.19)
E-Check		\$(1,101.85)
Online-Credit Card		\$(7.00)
		\$(50,572.86)
Totals		\$(341,232.40)

Payment Breakdown



Gallons Consumed vs. Billed OCTOBER 2023

GALLONS PUMPED	GALLONS BILLED	PUMPED BUT NOT BILLED	WATER LOSS PERCENTAGE
32,856,466	26,542,200	6,314,266	19.22%



30 DAYS IN BILLING CYCLE: 9/11/2023 TO 10/10/2023

Repairs, leaks, etc. rendering unverifiable consumption

9/11/23	REPAIR SERVICE	415	CORONA LOOP
9/12/23	REPAIR 6" MAIN	4285	CORONADO
9/13/23	REPAIR SERVICE	4008	HERMOSA
9/14/23	REPAIR BLOW-OFF VALVE	2021	BEL-AIR
9/19/23	REPLACE SERVICE	2354	CASTLE
9/25/23	REPLACE SERVICE	3858	JOE
	REPAIR SERVICE	164	COLUMBIA LOOP
	REPAIR		CASTLE
9/29/23	REPAIR SERVICE	3692	CARNES
10/2/23	REPAIR SERVICE	148	BELMONT
10/4/23	REPAIR SERVICE	186	HEATHERWOOD
10/7/23	REPAIR SERVICE LINE	3775	AMBER

2021-2022	DIFFERENCE GALLONS	WATER LOSS %	2022-2023	DIFFERENCE GALLONS	WATER LOSS %	2023-2024	DIFFERENCE GALLONS	WATER LOSS %
JULY	14,424,768	24.01%	JULY	7,208,464	16.69%	JULY	4,149,640	7.72%
AUGUST	891,740	1.75%	AUGUST	6,288,944	12.76%	AUGUST	3,632,880	6.61%
SEPTEMBER	9,399,209	16.62%	SEPTEMBER	6,173,568	9.86%	SEPTEMBER	3,715,642	8.03%
OCTOBER	6,648,943	19.98%	OCTOBER	1,558,200	5.23%	OCTOBER	6,314,266	19.22%
NOVEMBER	5,345,660	19.63%	NOVEMBER	3,277,798	11.61%	NOVEMBER		
DECEMBER	5,288,999	21.24%	DECEMBER	4,326,723	16.82%	DECEMBER		
JANUARY	4,577,755	19.15%	JANUARY	6,252,823	24.38%	JANUARY		
FEBRUARY	6,488,224	25.31%	FEBRUARY	6,565,010	25.03%	FEBRUARY		
MARCH	5,547,050	25.09%	MARCH	4,405,826	17.32%	MARCH		
APRIL	7,211,784	25.10%	APRIL	8,807,537	31.45%	APRIL		
MAY	5,995,498	23.84%	MAY	6,022,580	21.28%	MAY		
JUNE	6,966,924	21.19%	JUNE	7,523,735	14.59%	JUNE		
AVERAGE LOSS:	6,565,546	20.24%	AVERAGE LOSS:	5,700,934	17.25%	AVERAGE LOSS:	4,453,107	10.40%

SANITARY OPERATIONS REPORT

November 9, 2023

Construction Projects

- Green Family Housing, 73 units, 4 buildings, ie Engineering.
 - Project delayed for wetland approval.
- Winery Lane Inspired Healthcare Capital.
 - Underway
- Doris to Happy Valley Commercial Property Extension.
 - Owners will extend gravity infrastructure to gain access to sewer.
 - Design and specs update underway.
- Subway Roberts Creek Rd
 - Plans reviewed.

Collection System

- Manhole inspections project 'G' Basin complete.
- TV annual project.
 - 'G' Basin, flushing and CCTV complete.
 - Updating GIS and AutoCAD with lateral location changes, underway.
- Push cameras and camera trailer.
 - Small tractor & backup camera head out for sealing repairs.
- New float alarm systems to prevent future SSOs in previously affected areas.
 - Installed 2 new systems, one at the 'H' basin, and one at Briarwood Pump station.
 - Setup software interface and call out process.
 - Successfully tested systems.
- Camel flusher truck serviced and minor repairs completed this month.
- Flushers both flow tested, pumps are running well.

G4 and Pump Stations

- GAWSA Pump Stations ran well, with typical operation and maintenance.
- Deisel delivered for the generator at G4.

Meetings and Conferences

- No meetings this month.

Lateral Inspections & GIS

- 6 Inspections.
 - 1506, 1508 Austin Rd, GIS update.
 - 4991 Holgate, I&I replacement, GIS update.
 - 2372, 2380 Landers Ln, GIS update.
 - 2369 Landers Ln, I&I replacement, GIS update.

If you have any questions, feel free to contact me at 541-817-5100

Submitted by, Shannon L. Miller

Green Area Water & Sanitary Authority

Superintendents Report

November 2023

There are multiple projects in the works that will be requiring service soon including a facility off Winery Ln., a fire line and possible meter upsize on East Happy Valley Rd., a storage facility on Industrial Dr., as well as an additional commercial building on Industrial Dr., a new irrigation meter for an existing business and an inquiry about service on some commercial property on Hwy 99.

We recently had a 6" hydrant valve fail. It failed in the same manor (at the same approximate age) as the valve at Sunnyslope school. We will be keeping an eye on a potential issue with some of these valves.

The crew installed a 2" blow off on Grant Smith Rd. at the end of an 8" main, that we recently abandoned.

We have updated our Emergency Response Plan and the crew has reviewed it. We regularly update various contact information.

We are expecting our engineer to get with us very soon, regarding the master plans for both sanitary and water. They have had some staffing issues that they are taking care of.

If you have any questions, please feel free to give me a call at 541-670-1215
Thanks Alan

WINSTON-GREEN REGIONAL WASTEWATER TREATMENT FACILITY

Weekly Reports – October 2023

October 6th

- Drained GT tank and removed primary drive so that a seal could be replaced
- Influent Pump @ 2 severe vibration
 - Staff found the U joint in the center of the driveshaft to have excessive play
 - U joint was replaced along with the pillow blow and bearing next to the U Joint
- Made adjustment to the plant to try and treat more leachate
- Routine Maintenance
- Installed sight glass on Digester @ 1 sedimentation trap

October 13th

- Air flow switch bad on chlorine generation unit
 - Staff has ordered up a replacement switch
- Return Activated Sludge (RAS) flow rates adjusted
- Clean Wet Well
- Battery Replacement for Polaris Ranger
- Facility Grounds Maintenance
- Replaced Polymer Tote
- Leachate adjustment, approximately 2 loads per day
- Annual DMR-QA 43 lab study report sent off
 - This study is a quality control check for our lab tests

October 20th

- Began teardown of Boiler # 2 for cleaning
- Yard Maintenance
- Gravity Belt Thickener flow meter failed
 - This meter is out dated and parts are no longer available for it
 - Staff will begin the process of replacing the meter
- The conduit leaving the meter was rusted where it enters the concrete. The floor will need to be jack hammered away to expose good conduit in order to make the repairs
 - Unfortunately, this sort of thing is becoming more and more common as the digester building ages. The hydrogen sulfide corrosion is starting to take its toll on the components of the building
- Applied a primer to all of the fiberglass exhaust and supply fan covering on the buildings
- Applied paint to half of the same exhaust and supply fan coverings

October 27th

- Finished painting exhaust and supply fans
- TAG onsite to work on effluent filter programming
 - While they were here our chlorine generation system faulted so TAG worked on it instead of the filters
 - The issue is not resolved, TAG is looking into it

WINSTON-GREEN REGIONAL WASTEWATER TREATMENT FACILITY
Weekly Reports – October 2023

- Dump Run
- Flushed dump truck heater core
- Cleaned wet well
- Cleaned Influent Pump # 3
- Fixed lighting issues in the blower building
- Repaired water line going to the gravity thickener
 - This line had to be dug up and was replaced with schedule 80 pvc
- Repaired microchlor air flow switch
- Finished the cart path on the south side of secondary clarifier # 4
 - This had been dug up from a chlorine leak earlier in the year
- Preventative maintenance performed on Bobcat S 850 and New Holland Excavator

Winston- Green WWTF

October 2023

General

1.) Plant Influent Flow (MG)	<u>2023</u>		<u>2022</u>	
<i>Winston</i>	18.82	47%	16.72	47%
<i>Green</i>	21.71	53%	19.81	53%
<i>Rainfall</i>	1.75		1.54	
<i>Chlorine (Gallons)</i>	19,858		18,838	
<i>Leachate(Gallons)</i>	176,000		236,500	

Bio-Solids

1.) Storing Bio-Solids

FLOW ALLOCATION CHART

MONTH	WINSTON MG	GREEN MG	LANDERS LN. MG	TOTAL MG	RAINFALL
Jan.23	40.77	33.62	0.764	75.15	2.64
Feb.23	25.91	26.31	0.524	52.74	3.43
Mar.23	47.21	36.57	0.914	84.69	4.49
Apr.23	44.56	33.45	0.757	78.77	3.31
May.23	22.23	21.68	0.335	44.24	0.57
June.23	16.62	17.83	0.363	34.81	0.02
July.23	15.69	17.21	0.331	33.22	0.00
Aug.23	14.88	19.15	0.380	34.41	0.25
Sept.23	16.99	20.27	0.521	37.79	2.98
Oct.23	18.82	21.71	0.571	41.10	1.75
Nov. 22	21.62	25.09	0.443	47.15	4.61
Dec.22	32.73	35.58	0.711	69.01	6.21
TOTAL	318.02	308.46	6.611	633.09	30.26
GREEN + LANDERS		315.07			
APPORTIONMENT	50.23%	49.77%			
			100%		

WINSTON-GREEN WWTF

October 2023

SYSTEM CLASSIFICATION: IV PERMIT # 100554
 COUNTY: DOUGLAS

POPULATION: 10000 TYPE: RBC / ACTIVATED SLUDGE

FILE # 98400

D A T E	TOTAL FLOW MGD	INF PH	INF CBOD mg/l	INF SS mg/l	NH3 N EFF	TKN EFF	NO2 EFF	NO3 EFF	TOTAL P EFF	EFF PH	EFF TEMP MAX	EFF CBOD mg/l	% REM CBOD	LBS CBOD DIS	EFF SS mg/l	% REM SS	LBS DIS SS	CL2 RES mg/l	CL2 USED GAL.	ECOLI COL	BIOSOLIDS		
																					LAND gallons	DRYING BEDS gallons	RAIN FALL inches
1	1.557	7.6								7.3	22.1							0.05	737	2.0			
2	1.553	7.4	127	233	0.1	1.8	0.1	13.1	1.0	7.2	22.3	2.1	98%	27	2.2	99%	28	0.05	734	1.0		0.07	
3	1.379	7.6								6.9	22.5							0.04	700			0.01	
4	1.348	7.3	161	433	0.09					6.7	22.4	2.8	98%	31	2.0	100%	22	0.05	693				
5	1.003	7.3								6.7	22.4							0.03	581			0.01	
6	1.425	7.4								7.4	22.5							0.05	701				
7	1.327	7.4								7.0	22.7							0.03	681			0.01	
8	1.343	7.4								6.8	22.6							0.04	682	1.0			
9	1.300	7.5	139	353	0.17	2.36	0.19	17.6	4.1	7.0	22.5	2.9	98%	31	2.8	99%	30	0.04	682	6.3		0.12	
10	1.368	7.5								6.7	22.3							0.05	698			0.42	
11	1.452	7.5	141	362	0.24					6.7	21.8	3.0	98%	36	5.0	99%	61	0.05	715			0.14	
12	1.442	7.5								6.9	21.8							0.07	707				
13	1.387	7.5	141	300						7.2	21.3	2.8	98%	32	3.0	99%	35	0.06	700			0.11	
14	1.337	7.4								7.5	21.3							0.05	691			0.01	
15	1.356	7.5								7.5	21.7							0.05	633	<1		0.01	
16	1.365	7.5	148	296		22.10	0.51	5.7	0.9	7.4	21.8	2.3	98%	26	2.6	99%	30	0.04	624	<1		0.12	
17	1.303	7.4								7.5	21.9							0.05	592			0.01	
18	1.251	7.2	135	250	19.00					7.4	21.8	1.9	99%	20	3.2	99%	33	0.03	579			0.01	
19	1.247	7.3								7.3	21.8							0.01	509				
20	1.297	7.4	167	331	11.40					7.2	21.6	2.7	98%	29	3.4	99%	37	0.06	509			0.01	
21	1.264	7.4								7.0	21.4							0.02	506			0.02	
22	1.334	7.4								6.9	21.4							0.04	508	<1			
23	1.248	7.4	174	340	1.25	3.45	0.55	13.3	1.3	6.9	21.5	2.4	99%	25	3.0	99%	31	0.04	504	1.0			
24	1.303	7.5			0.20					6.9	21.0							0.05	509			0.45	
25	1.683	7.5	174	300	0.11					6.8	20.5	3.0	98%	42	1.0	100%	14	0.06	668			0.19	
26	1.464	7.6			0.44					7.0	20.4							0.05	635			0.01	
27	1.400	7.5	125	257	0.17					6.9	19.9	2.1	98%	25	1.0	100%	12	0.05	629				
28	1.348	7.6			0.07					7.0	19.8							0.04	687				
29	1.394	7.6			0.20					7.1	19.6							0.03	703	<1			
30	1.316	7.3	156	320	0.04	2.57	0.36	18.8	4.4	6.8	19.7	2.3	99%	25	1.0	100%	11	0.05	687			0.01	
31	1.248	7.5			0.08					6.9	19.7							0.07	674	<1		0.01	
TOT	42.04													351			344		19,858		0	0	1.75
MAX	1.683	7.6	174	433	19.00	22.10	0.55	18.8	4.4	7.5	22.7	3.0	99%	42.1	5.0	100%	60.5	0.07	737	6.3	0	0	0.45
MIN	1.003	7.2	125	233	0.04	1.80	0.10	5.7	0.9	6.7	19.6	1.9	98%	19.8	1.0	99%	11.0	0.01	504	<1.0	0	0	0.01
AVG	1.356	7.4	149	315	2.23	6.46	0.34	13.7	2.3	7.0	21.5	2.5	98%	29.2	2.5	99%	28.7	0.05	641	1.3			0.09

LBS AVG

42.74

EXCESS THERMAL LOAD WEEKLY AVG. Mkcals/day	EFF TEMP @ WEEKLY AVG.
1	22.9
8	20.5
15	18.2
22	14.0
29	8.3

I certify that I am familiar with the information contained in this report and that to the best of my knowledge such information is true, complete and accurate.

Christopher W. Sherlock
 SUPERINTENDENT T IV

Superintendent Report

On October 5th Wastewater Staff switched RAS pumps for our secondary clarifier #4. When this happened part of the RAS flow ended up in the adjacent secondary clarifier #3 that was offline at the time but the RAS line leaving it had been left opened allowing RAS to fill it from secondary clarifier # 4. It was not until October 6th that staff noticed the error that had happened and at this time pumped the solids out of that clarifier and back to the Aeration Basin; note that some of these solids had gone approximately 24 hours without oxygen. Grab samples were taken and showed that although a good portion of the plants activated sludge had gone without oxygen the process overall seemed to be in good health. The next week's 3 separate composite samples backed up what the grab samples had shown.

It wasn't until October 17th that staff suspected nitrification has ceased. This was confirmed with a grab sample on the 17th and again on October 18th with a composite sample. The plants Influent Ammonia levels were 29.3 mg/l and the Effluent were 19.0 mg/l. Our daily Max is 6 mg/l

It appears that the younger nitrification bacteria didn't survive the October 5th incident, but older did. As the older bacteria died off/ was wasted from the system it left a very young sludge in its place resulting in very little nitrification happening. An examination of the microbiology showed a mainly young sludge with very little in the age group that was expected.

On October 23rd composite samples showed that nitrification had started and our effluent levels were a 1.25 mg/l. Staff finished the remainder of October by doing daily composite Ammonia testing. This was to ensure the plant stayed in permit, along with helping the plants monthly Ammonia average.

DEQ was notified on October 18th once we had our first composite sample completed. The permit violation was also noted with DEQ when the monthly DMR was filed.