Meeting Agenda – January 11, 2023

REGULAR BOARD MEETING
Held at Burlington Edison Elementary School

- 1. Call to Order
- 2. Opening Public Comment
- 3. Consent Agenda:
 - A. Prior Meeting Minutes
 - B. Fund 150 Invoices
- 4. Communications:
 - A. Lift Station & Edison School Readings from Drain Doctor
 - B. Email from Operator Erickson & Cost Estimation from G&O for Expansion to Drainfield and UV System to Accomidiate Enlarged Drainfield for Additional Permitted Flow Proposal
- 5. Old Business
 - A. Monthly Operator Report
 - B. Monthly Maintenance Contractor Report
- 6. New Business
 - A. Update on Gray and Osborne Capacity Study
- 7. Other Business
- 8. Closing Public Comment
- 9. Adjourn

Edison Clean Water District Meeting Minutes

Meeting of November 30, 2022

<u>Call to Order:</u> The meeting was called to order at 5:05 PM with the following board members present: Jeff Haddox, Tom Skinner, Darryl Kvistad and Bernie Alonzo. Also present were Erin Langley from the County, Greg Young from Ravenhead Municipal Services, and Operator Don Erickson.

Opening Public Comment: None

<u>Consent Agenda</u>: The minutes from the Board's October 26th regular meeting minutes and the below detailed vouchers were approved following a motion by Mr. Skinner and seconded by Mr. Kvistad:

11/30/22-1	Drain Doctor	\$ 4,250.68
11/30/22-2	Ravenhead Municipal	\$ 900.00
11/30/22-3	City of Burlington	\$ 802.32

<u>Communications:</u> Mr. Young covered the communications for tonight's meeting by noting that it included the lift station readings, the school tank levels, and the commercial site's tank readings from the Drain Doctor, the individual residential pump tank readings from November 8th, the 2022 TYD pump cycles and run times as compiled by Scott Mangold and the proposed 2023 assessments given to the County Assessor and Treasurer.

Old Business: Operator Erickson reported that the North End Totalizer is now working and we collected data for the last 60 days reflecting that the eight (8) homes on this line averaged 67 gallons per day. Mr. Erickson also noted that for the month, the Plant BOD and TSS were good with fecal a little high.

Following up on the preliminary assessments from our contracted engineering firm, Gray and Osborne, employed to review and offer recommendations regarding the system's periodic high flow, one of their thoughts is to work to increase our permitted flow amounts through enlargements to our drainfield and UV disinfectant system. To this end, they have provided some preliminary cost figures reflecting that these improvements would cost approximately \$1.3 million. The enlargements to the drainfield alternative was brought about due to their belief that our higher flows are not a reflection of I&I but rather the effect of high rainfall.

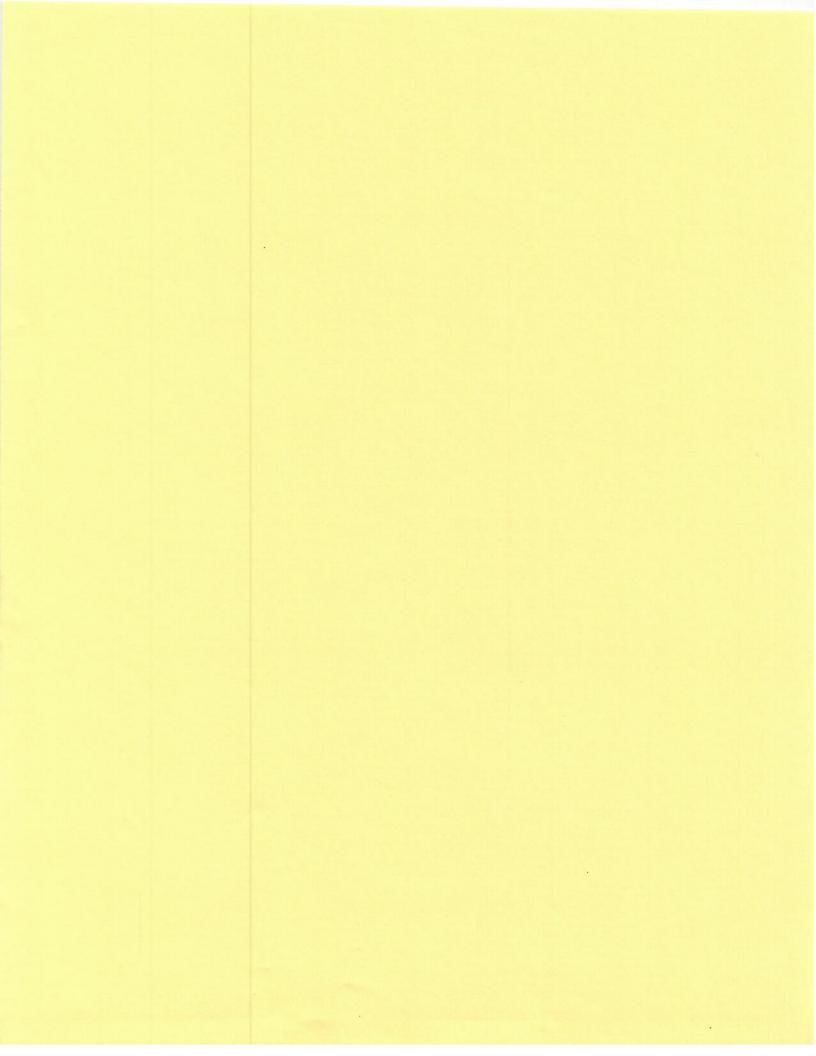
New Business: - None

Other Business: - Due to the upcoming Holidays, it was decided to not hold our regular December meeting but instead next meet on January 11th, 2023.

Adjourn: With no further busine	ess to be conducted, the meeting was conference call ended at 6:51PM.
Committee Member	

Edison Clean Water District

Meeting Minutes
Meeting of November 30, 2022
Page 2



Skagit County Edison Clean Water Disrtrict CASH FLOW REPORT - 2023

Fund No. 150 - Operations and Maintenance

January 2023 Beginning Cash Balance Adjustment to County Treasurer Statement	\$415,410.65 \$0.00
2023 Revenues to Date	\$0.00
2023 Expenditures to Date	\$6,522.11
2023 Ending Cash Balance	\$408,888.54

2023 Expenditure Detail by Vendor				Permit
		Operations	Capital	Compliance
The Drain Doctor		\$2,760.08	\$0.00	\$0.00
Ravenhead Municipal Services		\$900.00	\$0.00	\$0.00
Edge Analytical		\$0.00	\$0.00	\$132.00
Underground Utility Locate Service		\$0.00	\$0.00	\$0.00
City of Burlington		\$0.00	\$0.00	\$1,029.20
Burlington Edison School District		\$0.00	\$0.00	\$0.00
Coast Controls		\$0.00	\$0.00	\$0.00
State Department of Ecology		\$0.00	\$0.00	\$0.00
Trojan UV		\$0.00	\$0.00	\$0.00
Dahl Electric		\$1,700.83	\$0.00	\$0.00
	Subtotal	\$5,360.91	\$0.00	\$1,161.20

TOTAL \$6,522.11

YEAR 2023 Fund 150 Expenditure Tracking Sheet

Tracking Number	<u>Payee</u>	Amount	Total
1/11/23-1	Drain Doctor	\$2,760.08	
1/11/23-2	Ravenhead Municipal	\$ 900.00	
1/11/23-3	City of Burlington	\$1,029.20	
1/11/23-4	Edge Analytical	\$ 132.00	
1/11/23-5	Dahl Electric	\$1,700.83	\$6,522.11

FUND 150

Date:

Tracking Number:

1/11/23-1

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices destailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DESCRIPTION	BARS	AMOUNT
12/13/2022	Drain Doctor	Invoice #39575 - Repair		AMOUNT
12/12/2022		Invoice #39577 - pumping clarifer tank	150.582.00.41.10	\$414.00
12/1/2022		Invoice #39377 - pumping clarifer tank		\$169.00
12/5/2022	The second secon	Invoice #39584 - Monthly Contract		\$1,412.08
12/3/2022		Invoice #39700 - Pumped Old Edison		\$765.00
			TOTAL	\$2,760.08

Date.		
Signed:		

THE DRAIN DOCTOR • Since 1979 •

39575 Licensed & Bonded

14062 Hillwood Drive · Bow, WA 98232 · (360) 757-3017 · Contractor Lic. #DRAIND*055DH

•	Drain	&	Sewer	Cleaning	•	Septic	Tank	Pumping

· Sewer Line Repair

· Video Pipeline Inspections

· Septic Inspections

Page _ / of _ [

· Sep	h Pressure Line J tic / Sewer Inspe	letting ction	DATE OF	ORDER -13-22	
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FINANCE CHARGE OF 1.5 % NET 30 DAYS

☐ No one home

Total amount due for above work or: ☐ Total billing to be mailed after completion of work

39577 THE DRAIN DOCTOR Licensed & Bonded

Signature -

14062 Hillwood Drive · Bow, WA 98232

	DOW, WA 30202	. (300) /3/-301/	Contractor Lic.	#UKAIND*0
 Drain & Sewer Cleani 	ng · Septic Tank P	Pumping		

٠	Sewer	Line	Re	pair
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· Video Pipeline Inspections

•	Septic	Inspections
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•	High Pressure	Line	Jetting
	Cambia / Carren		

Page _ l of _ l

DATE OF ORDER

Total amount due

for above work or:

☐ Total billing to

of work

be mailed after completion

☐ No one home

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Signature _

THE DRAIN DOCTOR

39700

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FINANCE CHARGE OF 1.5 % NET 30 DAYS

DATE COMPLETED

Signature -

□ No one home

WORK ORDERED BY

☐ Total amount due for above work or:

TOTAL AMOUNT

TAX

☐ Total billing to be mailed after completion

FUND 150

Tracking Number:

1/11/23-2

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices destailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DESCRIPTION	BARS	AMOUN'
1/8/2023	Ravenhead Municipal	Invoice #2023-05-1	150.582.00.41.10	\$900.00
		January 2023 Contract		4,500,00
			-	
			TOTAL	\$900.00

Date:	 11 11 11 11 11	
Signed:		



Ravenhead Municipal Services 5 Sanwick Point Court Bellingham WA 98229 360.410.8626

youngest@comcast.net

January 8, 2023

INVOICE NO.

2023-05-1

BILL TO:

Skagit County Permit and Planning 1800 Continental Place Mount Vernon WA 98273

January 2023 Billing Summary

DESCRIPTION

January 2023 Contractual Service Fee

\$900.00

Thank You

BALANCE DUE \$900.00

FUND 150

Tracking Number:

1/11/23-3

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices destailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYI	EE		DESC	RIPTION		BARS	AMOUNT
11/30/2022	City of Burli	ngton	Monthly	Operator Fe	ee - Novemb	er 2022	150.582.00.48.10	0004.20
12/31/2022			Monthly	Operator	ee - Decer	-12022	130.362.00.46.10	\$604.32
	7		Iviolitily	Operator	Tee - Decer	noer 2022		\$424.88
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7 Juli 20						T		
		-						
							TOTAL	\$1,029.20

Date:				
Signed:				
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Totals Don Erickson Operator 11/1-30/22 11/3/2022 11/15/2022 11/30/2022 11/29/2022 Date 11/3/2022 Hours of Service 8.5 5515 -Mileage 8 21 21 Meeting w/ Edison Board
Cleaned UV System
Monitor SCADA System Resampled and tested Fecal Sampled for Edge & Site Inspection Review Lab data, Flow and DMR Description Materials/Supplies Service Fee 510.00 \$ 120.00 90.00 90.00 60.00 60.00 Mileage 2022 39.39 13.13 13.13 13.13 0.625 40 **Administration Fee** 10% 54.93 7.31 9.00 10.31 12.00 10.31 6.00 . • 604.32 Total 132.00 113,44 113.44 99.00 80.44 66.00 .

Skagit County Contract #C20200272 Billing for Edison Sewer

\bcfs\done\$\MyDocuments\Edison\Billing\Edison December 2022EXAMPLE-Master

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42									-	-		17	24	3							Wileage
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1														And the state of t							Materials/Supplies
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C2 0C.	•		-				-		•	12.00	•	10.31	10.31				6.00		1	10%	Administration Fee
A3A 00			•							132.00		113,44	113.44			•	66.00	•			Total

Skagit County Contract #C20200272 Billing for Edison Sewer

FUND 150

Tracking Number:

1/11/23-4

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices destailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DESCRIPTION	BARS	AMOUNT
				THIN CITY
1/5/2023	Edge Analytical	Invoice #22-39188	150.540.48.10	\$31.00
11/11/2022		Invoice #22-36426		\$101.00
				4101100
-				
			TOTAL	\$132.00

Jate:		
Signed:		



Burlington WA Corporate Office 1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 • 360.757.1402fax

Page 1 of 1

INVOICE

Client No:

Client:

SKA13

SKAGIT COUNTY PLANNING & DEVELOPMENT

1800 CONTINENTAL PLACE MOUNT VERNON, WA 98273

Attn:

Please include Reference number with payment

Reference: 22-39188

Date: January 5, 2023 Project: Edison Loss

Date Received: December 02, 2022

Purchase Order: Edison

ltem	Lab Sample Number	Client Sample Number and Description	Type of Analysis	Turnaround	Extended Cost
1	77063.00	Site M(in) - Edison WWTF	5 day BOD test	Standard	COST
2	77063.00	Site M(in) - Edison WWTF	Total Suspended Solids	Standard	
3	77064.00	Site A (Out) - Edison WWTF	5 day BOD test	Standard	
4	77064.00	Site A (Out) - Edison WWTF	Total Suspended Solids	Standard	
5	77064.00	Site A (Out) - Edison WWTF	Raw Compliance	Standard	\$31.00
6	77064.00	Site A (Out) - Edison WWTF	Inflationary Surcharge	Standard	Ψ01.00

Grand Total: \$31.00 Amount Paid: \$0.00 Amount Due (US Dollars): \$31.00

Thank You for Your Business

Please pay to corporate office by February 4, 2023 to avoid a 1.5% per month finance charge.

Please Detach Here ^ and return this portion with your payment

Reference:

22-39188

Amount Due: \$31.00

in US Dollars

SKAGIT COUNTY PLANNING & DEVELOPMENT

1800 CONTINENTAL PLACE MOUNT VERNON, WA 98273

SKA13

Please Remit To: Edge Analytical, Inc. 1620 S Walnut St Burlington, WA 98233

OR you can pay on-line at: www.edgeanalytical.com/payments User Name: Pay Password: Edge



Burlington WA Corporate Office 1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 • 360.757.1402fax

Page 1 of 1

INVOICE

Client No:

SKA13

Client:

SKAGIT COUNTY PLANNING & DEVELOPMENT

1800 CONTINENTAL PLACE MOUNT VERNON, WA 98273

Attn:

Please include Reference number with payment

Reference: 22-36426

Date: November 11, 2022

Project: Edison LOSS

Date Received: November 03, 2022

Purchase Order:

ltem	Lab Sample Number	Client Sample Number and Description	Type of Analysis	Turnaround	Extended Cost
1	71609.00	Site M (in) - Edison WWTF	5 day BOD test	Standard	\$27.00
2	71609.00	Site M (in) - Edison WWTF	Total Suspended Solids	Standard	\$11.00
3	71610.00	Site A (out) - Edison WWTF	5 day BOD test	Standard	\$27.00
4	71610.00	Site A (out) - Edison WWTF	Total Suspended Solids	Standard	\$11.00
5	71610.00	Site A (out) - Edison WWTF	Fecal Coliform by MTF in Water	Standard	\$25.00
6	71610.00	Site A (out) - Edison WWTF	Inflationary Surcharge	Standard	

Grand Total: \$101.00 Amount Paid: \$0.00 Amount Due (US Dollars): \$101.00

Thank You for Your Business

Please pay to corporate office by December 11, 2022 to avoid a 1.5% per month finance charge.

Please Detach Here * and return this portion with your payment

Reference:

22-36426

Amount Due: \$101.00

in US Dollars

SKAGIT COUNTY PLANNING & DEVELOPMENT

1800 CONTINENTAL PLACE MOUNT VERNON, WA 98273

SKA13

Please Remit To: Edge Analytical, Inc. 1620 S Walnut St Burlington, WA 98233

OR you can pay on-line at: www.edgeanalytical.com/payments User Name: Pay Password: Edge

FUND 150

Tracking Number:

1/11/23-5

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices destailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DES	CRIPTION	BARS	AMOUNT
				DIRRO	AMOUNT
10/28/2021 Da	hl Electric	Invoice #3016	55 - repair	150.540.48.10	\$935.74
1/24/2022		Invoice #3035	55 - repair	10010110110	\$236.96
11/30/2022		Invoice #3124	15 - repair		528.13
					020112
					100
				TOTAL	\$1,700.83

Date:	-		
Signed:			



HI LIC C30881

521 E. VICTORIA AVE. BURLINGTON, WA 98233 PHONE: (360) 755-1145 (360) 755-9722

Invoice

Customer PO: Verbal

Invoice Number Invoice Date Due Date

Work Performed At

SCP&D Edison Cafe Lift Station

30165 10/28/2021 10/28/2021

Page 1 of 1

Customer #: 4299

Skagit Co Planning & Developme Attn: Ravenhead Municipal Svcs 5 Sanwick Point Court Bellingham, WA 98229

Contact: Greg Young

Email: Youngest@comcast.net

Ph: (360) 410-8626

Contact: ASK

Job#: D007697

Email: Youngest@comcast.net

5797 Main Avenue

Bow, WA 98232

Ph: (360) 336-9410

Work Requested:

TS a possible phase loss.

Work Requested By: Mike Tamman

Order Date 10/7/2021

Work Performed:

Found that the phase loss monitor had failed. Located a replacement and installed on arrival. Also replaced the t-stat in the cabinet.

Qty	U/M	Description	Item #	Rate/Unit	Amount
5.50	E	JOURNEYMAN LABOR - PW	JY2	115.00	632.50
1.00	E	3P PHASE MONITOR	ОТВ	149.31	149.31
1.00	E	1P WALL TSTAT	K101	30.62	30.62
1.00	E	PW CERT & FILING FEE	PWCERT	50.00	50.00

Remit to: Dahl Electric, Inc. 521 E. Victoria Ave. Burlington, WA 98233

Subtotal: SalesTax: 862.43 73.31

Terms:Due upon receipt of invoice

Thank you for your business. We do expect payment within terms, so please process this invoice within that time. There will be a 1.5% interest charge per month on late invoices. Credit card payments are subject to a 3% processing fee that will be added to the total. A \$35 fee will be added to all NSF checks.

2929Skagit PTBA - 2929 Total Due: \$

935.74

%



HI LIC C30881

521 E. VICTORIA AVE. BURLINGTON, WA 98233 PHONE: (360) 755-1145 (360) 755-9722

Invoice **Invoice Number**

Customer PO:

Invoice Date

Due Date

Work Performed At

Perry Residence (Thomas & Renee)

14095 Doser Street

Bow, WA 98233-2

30355 1/24/2022 1/24/2022

Page 1 of 1

Customer#: 4299

Skagit Co Planning & Developme Attn: Ravenhead Municipal Svcs 5 Sanwick Point Court

Bellingham, WA 98229

Contact: Greg Young

Email: Youngest@comcast.net

Ph: (360) 410-8626

Contact: Thomas Perry

Job#: D007942

Email:

Ph:() -

Work Requested:

Work Requested By: Thomas Perry

Order Date 1/5/2022

Meet Mike Tammen at 845am 01/05/22 to decipher septic system issue.

Work Performed:

TS septic check amperage and run pump. Check low voltage relay functionality. Reset and adjusted time and sensitivity..

Qty	U/M	Description	Item #	Rate/Unit	Amount
1.00	E	JOURNEYMAN LABOR - PW	JY2	119.00	119.00
1.00	E	PW CERT & FILING FEE	PWCERT	100.00	100.00

Remit to: Dahl Electric, Inc. 521 E. Victoria Ave.

Burlington, WA 98233

Subtotal:

219.00 17.96

Terms:Due upon receipt of invoice

Thank you for your business. We do expect payment within terms, so please process this invoice within that time. There will be a 1.5% interest charge per month on late invoices. Credit card payments are subject to a 3% processing fee that will be added to the total. A \$35 fee will be added to all NSF checks.

2900Skagit County Unincorporate **Total Due: \$**

236.96

SalesTax: 8.20%



WA LIC DAHLEEI926QD HI LIC C30881

521 E. VICTORIA AVE. BURLINGTON, WA 98233 PHONE: (360) 755-1145 (360) 755-9722

Invoice Number Invoice Date

Work Performed At

31245 11/30/2022 11/30/2022

Due Date Page 1 of 1

Invoice

Customer#:

4299

Job#: D008735

Customer PO:

Skagit Co Planning & Developme Attn: Ravenhead Municipal Svcs

5 Sanwick Point Court Bellingham, WA 98229 SCP&D 5941 Farm to Market Rd. 5941 Farm to Market Rd.

Edison, WA 98232

Contact: Greg Young

Email: Youngest@comcast.net

Ph: (360) 410-8626

Contact: Mike Tammen

Ph: (360) 708-9674

Email:

Order Date 11/3/2022

Work Requested: Work Requested By: Mike Tammen Meet Drain Doctor and determine float and or pump issues.

Work Performed:

Determined that the motor needed replacing.

Qty	U/M	Description	Item #	Rate/Unit	Amount
2.50	E	JOURNEYMAN LABOR - PW	JY2	139.00	347.50
1.00	E	PW CERT & FILING FEE	PWCERT	100.00	100.00
3.00	E	Sewer Nuts	OTB	4.20	12.60
1.00	E	Cord Grip Conn.	ОТВ	26.21	26.21

Remit to: Dahl Electric, Inc. 521 E. Victoria Ave

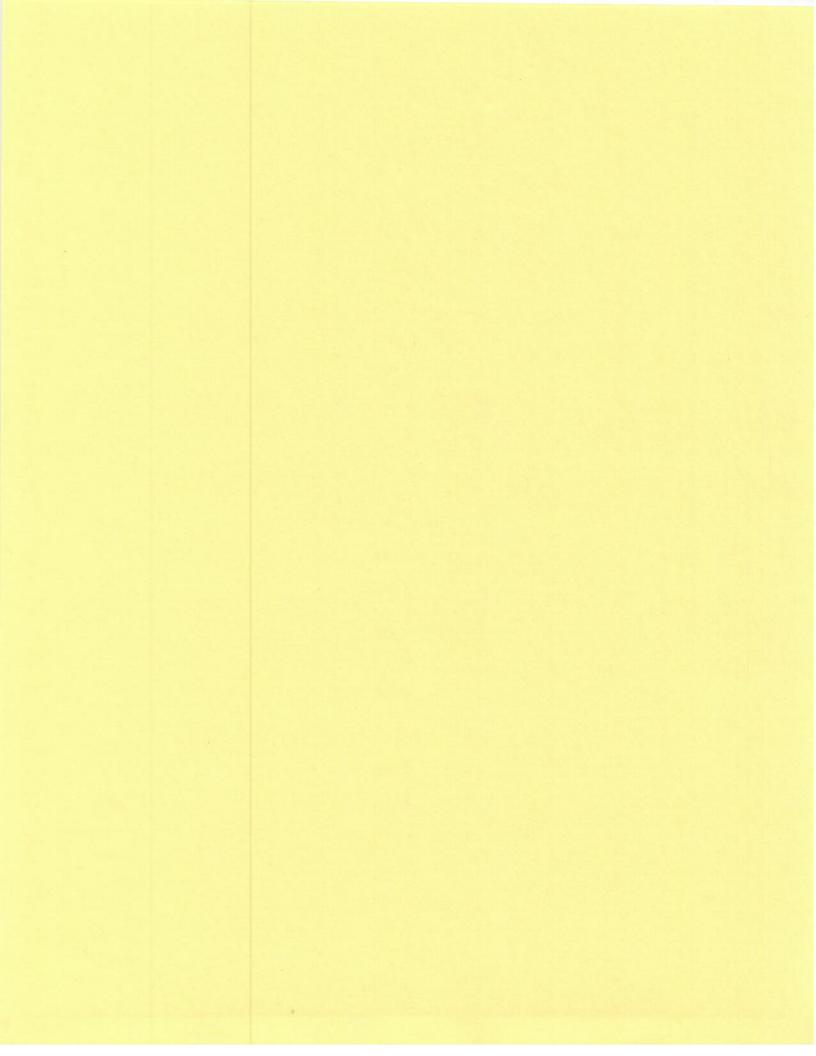
Burlington, WA 98233

486.31 Subtotal:

SalesTax: 8.60% 2929Skagit PTBA - 2929 41.82

528.13 Total Due: \$

Terms:Due upon receipt of invoice Thank you for your business. We do expect payment within terms, so please process this invoice within that time. There will be a 1.5% interest charge per month on late invoices. Credit card payments are subject to a 3% processing fee that will be added to the total. A \$35 fee will be added to all NSF checks.



Edison Lift Station

Date: 12-12-2	2	
Tech: 10552		
Counter # 1		
Events	40878	
Run Time	2479.62	
Counter # 2		
Events	39925	
	5984-89	
Run Time	5784-87	
C	Mond	
Siemens Totalizer	64824	
	011	
Comments:	All normal	
Draw Downs		
North Pump		
South Pump	InchesMin	

Site 74 Sechs: 1052 Date: 12-12-22 24 48	Edison School	
Panel Readings #1 Hr: 1110-53 Events: 33835 Drdn: #2 Hr: 1148-17 Events: 33906 Ordn:	seum: sludge: sludge: sludge: sludge: sludge:	Of Access Lids. 3000 gal Obaslet Filters Filters cleaned () 1500 gal
Comments:	Studge: Studge:	Dasket filter Filter cleaned () Panys vault

.

Greg Young

From:

Don Erickson

Sent:

Wednesday, November 30, 2022 8:36 AM

To:

Greg Young; 'Erin Langley'

Subject:

FW: [External] RE: Edison

Attachments:

Edison UV system and Drain Field Improvements Cost Estimate.pdf

Greg, I will bring copies of the attached tonight to share. This was per the request from Bernie at the last meeting.

From: Jay Swift [mailto:jswift@g-o.com]
Sent: Tuesday, November 29, 2022 4:58 PM
To: Don Erickson <derickson@burlingtonwa.gov>

Cc: 'Bjarne Jacobsen' <bjacobsen@g-o.com>; 'Yun Xi' <yxi@g-o.com>

Subject: RE: [External] RE: Edison

{Caution: This email originates outside of the City of Burlington} >

Don

Attached is a very preliminary cost estimate to address the capacity issues at the Edison WWTP and Disposal Field.

We have broken down the costs into the following categories:

DISPOSAL FIELD EXPANSION

Adding additional capacity as the existing disposal field capacity, using some of the area where the field is. Another option is to purchase some adjacent land (for that option, additional land costs would need to be added)

EXISTING DISPOSAL FIELD IMPROVEMENTS

Partially collapsed-trench, and otherwise reduced-capacity, sections of the existing disposal system would be excavated and brought back to full capacity. The estimate assumes half of the existing piping and valves are replaced.

UV DISINFECTION SYSTEM IMPROVEMENTS

The UV system would be replaced with a new system, controls, stainless steel channel, etc.

MISCELLANEOUS GRAVEL FILTER TREATMENT SYSTEM IMPROVEMENTS

A placeholder of \$30,000 has been included for improvements that might be identified as desirable during planning or design.

Some of these costs could potentially be reduced if I/I is reduced.

Please let us know if you have any questions or comments.

Are you available for a short meeting tomorrow to discuss this estimate and touch base on the final stages of the Burlington Plan?

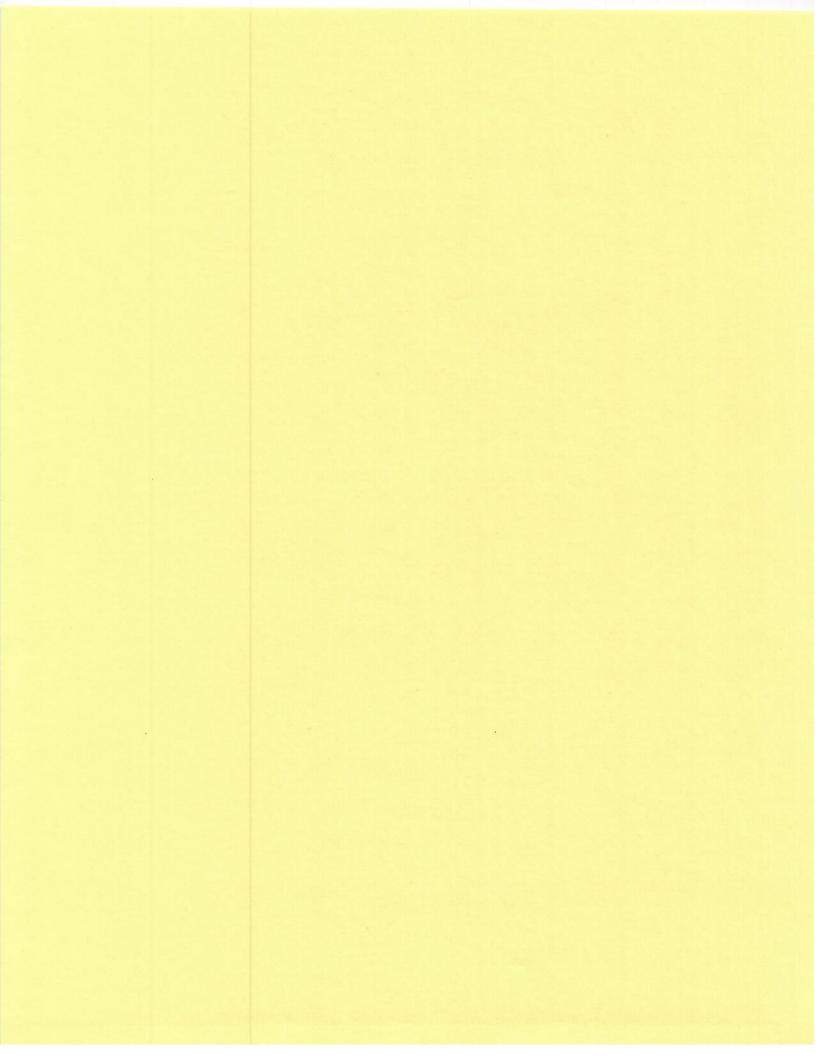
Would 10 am or 11 am perhaps work for that?

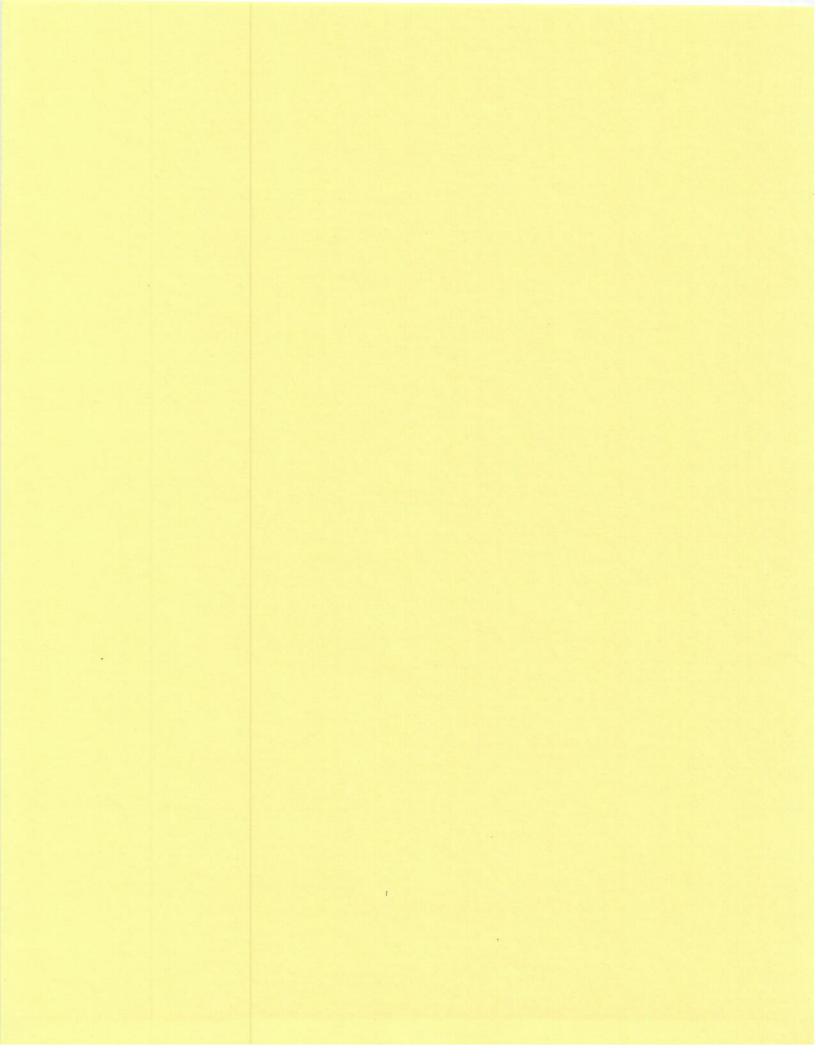
Thanks

SKAGIT COUNTY EDISON CLEAN WATER DISTRICT, EDISON SUBAREA NO. 1 WASTEWATER CAPACITY PLAN PLANNING LEVEL COST ESTIMATE November 2022

G&O# 22596

NO.	<u>DESCRIPTION</u> <u>QUANTITY</u>		TITY	PRICE	AMOUNT
DISPO	OSAL FIELD EXPANSION				
1 N	Mobilization/Demobilization	1	LS	\$29,000	\$29,000
2 7	Trench Excavation, Backfill and Infiltration System Installation	1	LS	\$70,000	\$70,000
	Pea Gravel	500	CY	\$30	\$15,000
4 5	Sand Backfill for Grading	430	CY	\$30	\$13,000
	Force Main Piping	2650	LF	\$14	\$37,000
6 (Other Piping, Valves and Appurtenances	1	LS	\$31,000	\$31,000
7 I	Electrical	1	LS	\$72,000	\$72,000
8 I	Instrumentation & Controls	1	LS	\$40,000	\$40,000
9 7	Trench Excavation Safety System	1	LS	\$200	\$200
S	Subtotal				\$307,000
EXIST	TING DISPOSAL FIELD IMPROVEMENTS				
1 N	Mobilization/Demobilization	1	LS	\$29,000	\$29,000
2 7	Trench Excavation, Backfill and Infiltration System Installation	1	LS	\$65,000	\$65,000
	Demolition and Wastehaul	1	LS	\$10,000	\$10,000
	Pea Gravel	350	CY	\$30	\$11,000
	Sand Backfill for Grading	300	CY	\$30	\$9,000
6 H	Force Main Piping	1325	LF	\$14	\$19,000
7 (Other Piping, Valves and Appurtenances	1	LS	\$16,000	\$16,000
	Electrical	1	LS	\$36,000	\$36,000
9 I	Instrumentation & Controls	1	LS	\$40,000	\$40,000
10	Trench Excavation Safety System	1	LS	\$200	\$200
5	Subtotal				\$234,000
UV D	SISINFECTION SYSTEM IMPROVEMENTS				
1 1	Mobilization and Demobilization	1	LS	\$12,000	\$12,000
2 (Channel Modification	1	LS	\$20,000	\$20,000
3 I	Demolition and Wastehaul	1	LS	\$10,000	\$10,000
4 I	UV Equipment	1	LS	\$36,000	\$36,000
	Installation, 40%	1	LS	\$14,000	\$14,000
	Electrical	1	LS	\$13,000	\$13,000
	Instrumentation & Controls	1	LS	\$19,000	\$19,000
	Subtotal			777,000	\$124,000
MISC.	ELLANEOUS GRAVEL FILTER TREATMENT SYSTEM IMPROVEME	ENTS 1	LS	\$30,000	\$30,000
	Subtotal				\$695,000
(Construction Contingencies (30%)				\$209,000
5	Subtotal				\$904,000
5	Sales Tax (8.6%)				\$78,000
1	Total Estimated Construction Cost (rounded)				\$981,000
	Engineering Services (13%)				\$128,000
(Construction Administration (12%)				\$118,000
I	Legal, Administration, Permitting (5%)				\$50,000
T	Total Estimated Project Cost (rounded)				\$1,278,000







November 30, 2022

Edison WWTF Operators Report

November 3rd, Erin and I collected monthly samples for analysis at Edge Analytical. The flow was 5352 gallons and the return rate was 7.6:1. The recirculating tank pH was 6.5, and effluent pH was 6.2. I inspected the site and was unable to observe any ponding on the gravel filters by sight or smell and could hear the recirculating gravel filter pumps cycle. A visual inspection of the recirculating ball appeared to be functioning correctly and the facility appears to be clean and well-kept.

November 11th, The Edge analytical report showed a fecal count of 220 MPN/100ml (to high) and an 83% reduction in TSS and a 87% reduction in BOD.

November 15th, resampled effluent for analysis and the fecal was 31 MPN/100ml, within the expected range.

November 29th, Erin and I cleaned the UV lamps and the recirculating ball valve and a visual inspection of both appeared to be functioning correctly. The flow was 5412 gallons and the return rate was 7.6:1, I was unable to observe any ponding on the gravel filters by sight or smell and could hear the recirculating gravel filter pumps cycle.

Sincerely.

Don Erickson

Sewer Department Supervisor



December 31, 2022

Edison WWTF Operators Report

December 2nd, Erin and I collected monthly samples for analysis at Edge Analytical. The flow was 5352 gallons and the return rate was 7.66:1. The recirculating tank pH was 6.9, and effluent pH was 6.5. I inspected the site and was unable to observe any ponding on the gravel filters by sight or smell and could hear the recirculating gravel filter pumps cycle. A visual inspection of the recirculating ball appeared to be functioning correctly and the facility appears to be clean and well-kept.

On December 13th, I received notice that our December 2nd effluent TSS results from Edge Analytical was 200 mg/L TSS and a 9mg/L BOD. We retested the effluent TSS and BOD on December 14th with the second test results of 7 mg/L TSS and 4 mg/L BOD which is within the expected range.

So the logical conclusion is the high TSS result on December 2nd is an outlier and therefor invalid and will be omitted from the monthly average. To substantiate the conclusion, historically the average effluent TSS over the last 24 months has been 7 mg/L. If the 200 mg/L TSS was valid, the BOD would have been higher and our UV system would not have been able to perform, which was not the case as indicated in our fecal count of only 4.0 MPN/100ML. We are currently evaluating our sampling protocol and our contracted lab.

On December 27th and 28th, some of the treated effluent flow was sent to the Emergency Upflow Trench as a result of extended periods of heavy rain with high tides. Which had resulted in several drain fields shutting down on high water level alarms, then restarting hours or days later when the water table has dropped. As per the permit, S2.A. "The Permittee must report when drainfield zones are shut off. The Permittee must include the date, amount of time, and drainfield number and zone in the notes section in the monthly DMR." This was noted on the December 2022 DMR.

Sincerely,

Don Erickson

Sewer Department Supervisor