



THE MUNICIPALITY OF
LAMBTON SHORES

Grand Bend and Area Joint Sewage Board
AGENDA

Meeting #: 05-2021
Date: November 25, 2021
Time: 9:00 a.m.
Location: Electronic Zoom Meeting

Pages

1. **Call to Order**

2. **Declaration of Pecuniary Interest**

3. **Approval of the Agenda**

RECOMMENDATION:

THAT the Agenda for the November 25, 2021 Grand Bend and Area Joint Sewage Board meeting be approved.

4. **Minutes of Previous Meeting**

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RECOMMENDATION:

THAT the Minutes of the September 30, 2021 Grand Bend and Area Joint Sewage Board Meeting as presented, be approved.

5. **Correspondence**

There was no correspondence submitted.

6. **Presentations & Delegations**

There are no presentations or delegations scheduled.

7. **Staff Reports**

7.1. **2021 Third Quarter Operations Report**

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RECOMMENDATION:

THAT Report STB 05-2021 regarding the "2021 Third Quarter Operations Report" be received.

RECOMMENDATION:

THAT Report STB 06-2021 regarding the “2022 Final Budget” be received; and

THAT the Grand Bend Area Joint Sewage Board approves the final 2022 Budget attached; and

THAT the final 2022 budget be forwarded to the Municipal Councils of Lambton Shores and South Huron for Council Approval.

8. Other Business

9. Closed Session

There are no Closed Session items.

10. Adjournment

RECOMMENDATION:

THAT the November 25, 2021 meeting be adjourned at a.m.



THE MUNICIPALITY OF

LAMBTON SHORES

Grand Bend and Area Joint Sewage Board Minutes

Thursday, September 30, 2021 at 9:00 a.m.

Held Electronically via Zoom

Members Present: Bill Weber, Lambton Shores
Doug Cook, Lambton Shores
Jim Dietrich, South Huron, Vice-Chair
George Finch, Chair
Dave Maguire, Lambton Shores
Marissa Vaughan, South Huron

Members Absent: Dan Sageman (alternate), Lambton Shores
Barb Willard, (alternate), Lambton Shores

Staff Present: Steve McAuley, Lambton Shores Director of Community Services
Stephanie Troyer-Boyd, Lambton Shores - Clerk

1. Call to Order

Chair Finch called the meeting to order at 9:00 am.

2. Declaration of Pecuniary Interest

There were no declarations on September 30, 2021.

3. Approval of the Agenda

GBAJSB21-0930-01 Moved By: Dave Maguire
Seconded By: Jim Dietrich

THAT the agenda for the September 30, 2021 meeting of the Grand Bend and Area Joint Sewage Board be approved as presented.

Carried

4. Minutes of Previous Meeting

GBAJSB21-0930-02 Moved By: Doug Cook
Seconded By: Marissa Vaughan

THAT the minutes of the September 2, 2021 meeting of the Grand Bend and Area Joint Sewage Board be adopted as presented.

Carried

5. Correspondence

There was no correspondence.

6. Presentations and Delegations

There were no Presentations or Delegations.

7. Staff Reports

7.1 Report STB 04-2021 - 2022 Draft Budget

Steve McAuley presented the 2022 Draft Budget to the Board.

GRAJSB21-0930-03

Moved By: Bill Weber

Seconded By: Jim Dietrich

THAT Report STB 4-2021 regarding the “2022 Draft Budget” be received; and

THAT the Grand Bend Area Joint Sewage Board recommends that the 2022 Budget attached be forwarded to the Municipal Councils of Lambton Shores and South Huron for comment.

Carried

8. Other Business

There was no other business.

9. Closed Session

There was no Closed Session.

10. Adjournment

GBAJSB21-0930-04

Moved By: Jim Dietrich

Seconded By: Dave Maguire

THAT the September 30, 2021 meeting of the Grand Bend and Area Joint Sewage Board adjourn at 9:15 a.m.

Carried

GRAND BEND AREA JOINT SEWAGE BOARD

Report STB 05-2021

Board Meeting Date: November 25, 2021

TO: Chairman Finch and Members of the Board

FROM: Steve McAuley, Chief administrative Officer, Lambton Shores

RE: 2021 Third Quarter Operations Report

RECOMMENDATION:

THAT Report STB 05-2021 regarding the “2021 Third Quarter Operations Report” be received.

SUMMARY

This report is a summary of the operations for the third quarter (Q3) of 2021 for the Grand Bend Sewage Treatment Facility.

BACKGROUND

Attached is the Q3 report for the Grand Bend Sewage Treatment Facility up to October 31, 2021. The report includes year-to-date financial summary, a summary of flows experienced over that time and a summary of the monthly average effluent quality testing results.

Year-to-date financials show no areas of concerns at this point.

The flow data attached shows flows from the various contributors to the system. In addition, the flow split between South Huron and Lambton Shores is shown for reference

Q3 effluent testing results show that the effluent quality has met or exceeded the established effluent and objectives limits. The recent modifications to the clarifier inlet has dramatically improved the effluent quality. In addition to this quality improvement, the amount of Alum being injected to achieve these results has been able to be decreased, as well, both the blowers and filters are also functioning much more efficiently after this modification. Overall the plant is producing extremely high quality effluent and operating in a much more efficient manner. As noted in previous reports, only one train is in operation, as such only that train has had the modification completed. Based on the success realized to date, staff will complete the modification to the second train prior to putting it into service.

No major maintenance issues were noted during the third quarter of 2021, however the wet well lights in PS2 required replacement. These lights are required to be explosion proof, as such the replacement of two lights was costly at \$10,747.

ALTERNATIVES TO CONSIDER

None, this report is information only.

RECOMMENDED ACTIONS

This report is prepared in accordance to the Board's Quarterly Report Policy 01-2017. Staff recommends the report be received for information by the Board.

FINANCIAL IMPACT

None

CONSULTATION

Jacobs– Plant Operators

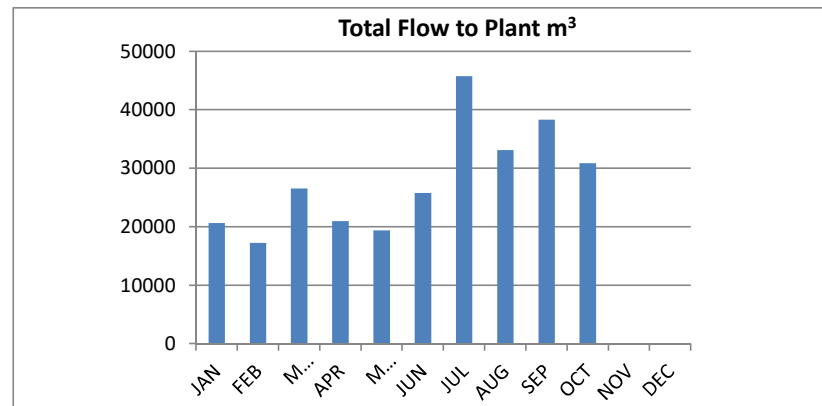
GRAND BEND AREA JOINT SEWAGE OPERATIONS
2021 YTD
Statement for the period ending October 31, 2021

| GL Account | Description | 2021 BUDGET | 2021 DRAFT YTD | AVAILABLE | % USED |
|--|------------------------------------|-------------------|-------------------|--------------------|----------------|
| OWNER CONTRIBUTION | | | | | |
| 4-410-175-4500 | LAMBTON SHORES CONTRIBUTION | 435,215.08 | 326,411.31 | 108,803.77 | 75.00% |
| 4-410-175-4501 | SOUTH HURON CONTRIBUTION | 270,227.46 | 202,670.59 | 67,556.87 | 75.00% |
| 4-410-175-4075 | INTEREST REVENUE | | 5,135.60 | (5,135.60) | |
| | TOTAL REVENUE | 705,442.54 | 534,217.50 | 171,225.04 | 75.73% |
| ADMINISTRATIVE AND GOVERNANCE | | | | | |
| 4-410-175-5100 | GENERAL ADMINISTRATION CHARGE STF | 4,096.14 | | 4,096.14 | 0.00% |
| 4-410-175-5160 | INSURANCE STF | 23,315.69 | 23,109.84 | 205.85 | 99.12% |
| 4-410-175-5155 | AUDIT | 7,490.88 | 880.75 | 6,610.13 | 11.76% |
| 4-410-175-5156 | ACCOUNTING SERVICES | 2,122.42 | | 2,122.42 | 0.00% |
| 4-410-175-5170 | IT | 500.00 | 254.38 | 245.62 | 50.88% |
| 4-410-175-5104 | SCADA SUPPORT STF | 2,000.00 | 2,243.81 | (243.81) | 112.19% |
| 4-410-175-5103 | ENGINEERING STF | 2,000.00 | | 2,000.00 | 0.00% |
| 4-410-175-5150 | LEGAL | 1,000.00 | | 1,000.00 | 0.00% |
| 4-410-175-5910 | CAPITAL REPLACEMENT RESERVE | 217,547.64 | 163,160.73 | 54,386.91 | 75.00% |
| 4-410-175-5210 | TAXES STF | 42,707.30 | 41,946.87 | 760.43 | 98.22% |
| 4-410-176-5210 | TAXES PS2 | 1,186.45 | 1,124.83 | 61.62 | 94.81% |
| 1-410-175-5899 | RF INTERST ALLOCATION | | 5,135.60 | (5,135.60) | |
| | | 303,966.52 | 237,856.81 | 66,109.71 | 78.25% |
| FIXED MTC & OPERATIONAL COSTS | | | | | |
| 4-410-175-5125 | TELEPHONE STF | 2,000.00 | 1,137.32 | 862.68 | 56.87% |
| 4-410-176-5125 | TELEPHONE PS2 | 2,850.00 | 1,827.57 | 1,022.43 | 64.13% |
| 4-410-175-5126 | COMPUTER EXPENSE | 500.00 | 436.53 | 63.47 | 87.31% |
| 4-410-175-5140 | BUILDING REPAIRS & MAINTENANCE STF | 25,000.00 | 28,301.50 | (3,301.50) | 113.21% |
| 4-410-175-5175 | GROUPS MAINTENANCE | 2,000.00 | 100.76 | 1,899.24 | 5.04% |
| 4-410-175-5141 | ANNUAL PREVENTIVE MAINTENACE | 10,176.00 | 9,328.22 | 847.78 | 91.67% |
| 4-410-175-5176 | WETLAND PEST CONTROL | 1,000.00 | 2,544.00 | (1,544.00) | 254.40% |
| | | 43,526.00 | 43,675.90 | (149.90) | 100.34% |
| VARIABLE OPERATIONAL COSTS (RELATED TO FLOWS) | | | | | |
| 4-410-175-5101 | OMI ADMINISTRATIVE COSTS STF | 35,021.72 | 32,103.28 | 2,918.44 | 91.67% |
| 4-410-175-5102 | OPERATOR WAGES STF | 90,704.79 | 83,146.03 | 7,558.76 | 91.67% |
| 4-410-175-5122 | ELECTRICAL COSTS STF | 105,000.00 | 68,038.35 | 36,961.65 | 64.80% |
| 4-410-176-5122 | ELECTRICAL COSTS PS2 | 9,500.00 | 9,961.65 | (461.65) | 104.86% |
| 4-410-175-5123 | UNION GAS STF | 38,850.00 | 9,229.12 | 29,620.88 | 23.76% |
| 4-410-175-5121 | WATER STF | 16,000.00 | 23,857.31 | (7,857.31) | 149.11% |
| 4-410-176-5121 | WATER PS2 | 400.00 | 246.86 | 153.14 | 61.72% |
| 4-410-175-5180 | CHEMICALS | 54,100.70 | 49,592.41 | 4,508.29 | 91.67% |
| 4-410-175-5410 | LABORATORY SAMPLING | 8,372.81 | 7,675.13 | 697.68 | 91.67% |
| | | 357,950.02 | 283,850.14 | 74,099.88 | 79.30% |
| | TOTAL EXPENSES | 705,442.54 | 565,382.85 | 140,059.69 | 80.15% |
| | GRAND TOTAL | | 31,165.35 | (31,165.35) | |

Grand Bend Area Joint Sewage Board
Summary of 2021 System Flows

| MONTH | OAKWOOD m ³ | POG\Motor Plex m ³ | GRAND COVE m ³ | HC PLAYHOUSE m ³ | PINERY m ³ | PS2 m ³ | Total Flow to Plant m ³ | Plant m ³ |
|----------------------|---------------------------|----------------------------------|------------------------------|--------------------------------|--------------------------|-----------------------|---------------------------------------|-------------------------|
| | Monthly Flow | Monthly Flow | Monthly Flow | Monthly Flow | Monthly Flow | Monthly Flow | Monthly Flow | Monthly Flow |
| JAN | 425 | 1292 | 5768 | 39 | 55 | 19278 | 20664 | 30484 |
| FEB | 435 | 501 | 4309 | 16 | 43 | 16699 | 17259 | 25731 |
| MAR | 600 | 1786 | 7113 | 53 | 77 | 24638 | 26554 | 40642 |
| APR | 550 | 590 | 6275 | 32 | 87 | 20273 | 20982 | 46253 |
| MAY | 507 | 358 | 4937 | 42 | 150 | 18842 | 19392 | 37383 |
| JUN | 1206 | 760 | 5158 | 34 | 1895 | 23113 | 25802 | 42584 |
| JUL | 2450 | 1749 | 4773 | 74 | 6234 | 37712 | 45769 | 16888 |
| AUG | 2087 | 32 | 5496 | 15 | 4890 | 28169 | 33106 | 31869 |
| SEP | 1588 | 3085 | 7056 | 90 | 2873 | 32273 | 38321 | 39927 |
| OCT | 1369 | 1921 | 6315 | 77 | 1129 | 27734 | 30861 | 38643 |
| NOV | | | | | | | | |
| DEC | | | | | | | | |
| Total to Date | 11217 | 12074 | 57200 | 472 | 17433 | 248731 | 278710 | 350404 |

| <u>Flow Split to date m³</u> | | |
|---|--------------|-----|
| Plant | | |
| Lambton Shores | 197747 | 71% |
| South Huron | 80963 | 29% |
| | <hr/> 278710 | |
| PS2 | | |
| Lambton Shores | 180314 | 72% |
| South Huron | 68417 | 28% |
| | <hr/> 248731 | |



Note:
Plant Flows are shown for reference only, and are subject to the effects of lagoon use.

| Grand Bend Sewage Treatment Plant | | | | | | |
|---|---------------|------------------|-----------------|--------------------------|------------------------|------------|
| 2021 Final Effluent Average Monthly Testing Results | | | | | | |
| Parameter Month | CBOD5 mg/L | T. S. S. mg/L | Total P mg/L | Total Ammonia mg/L | E-Coli Per 100ml | pH Grab |
| January | 2.3 | 4.1 | 0.09 | 0.14 | 2 | 6.94 |
| February | 2.0 | 4.8 | 0.15 | 0.29 | 2 | 6.93 |
| March | 2.6 | 6.1 | 0.12 | 0.19 | 2 | 6.76 |
| April | 2.0 | 5.3 | 0.10 | 0.17 | 2 | 6.59 |
| May | 2.5 | 6.0 | 0.11 | 0.19 | 2 | 6.61 |
| June | 2.4 | 4.5 | 0.06 | 0.55 | 2 | 6.57 |
| July | 2.3 | 2.9 | 0.07 | 4.07 | 2 | 6.97 |
| August | 2.3 | 3.5 | 0.04 | 3.20 | 2 | 7.25 |
| September | 2.0 | 3.1 | 0.07 | 0.45 | 2 | 6.77 |
| October | 2.5 | 2.0 | 0.05 | 0.18 | 2 | 6.88 |
| November | | | | | | |
| December | | | | | | |
| Effluent Objectives | 5.0 | 5.0 | 0.10 | 2.0 | NA | 6.5-9.0 |
| Effluent Limits | 10.0 | 10.0 | 0.15 | 4.0 | 100 | 6.0-9.5 |

Note:

| | |
|--|--|
| | Denotes results met Effluent Objectives |
| | Denotes results met Effluent Limits |
| | Denotes results did not meet Effluent Limits |

GRAND BEND AREA JOINT SEWAGE BOARD

Report STB 06-2021

Board Meeting Date: November 25, 2021

TO: Chair Finch and Board Members

FROM: Steve McAuley, Chief Administrative Officer, Lambton Shores

RE: 2022 Final Budget

RECOMMENDATION:

THAT Report STB 06-2021 regarding the “2022 Final Budget” be received; and

THAT the Grand Bend Area Joint Sewage Board approves the final 2022 Budget attached; and

THAT the final 2022 budget be forwarded to the Municipal Councils of Lambton Shores and South Huron for Council Approval.

SUMMARY

This report presents the final 2022 budget for the Board’s approval.

BACKGROUND

At the September 30th, 2021 meeting, the Board reviewed the draft 2022 budget and the following motion was passed:

THAT Report STB 4-2021 regarding the “2022 Draft Budget” be received; and

THAT the Grand Bend Area Joint Sewage Board recommends that the 2022 Budget attached be forwarded to the Municipal Councils of Lambton Shores and South Huron for comment. Carried

Based on the resolution passed, the draft budget was forwarded to both Municipalities for comment. South Huron Council discussed the draft budget at their October 18th and November 15th, 2021 Council meetings. A copy of a letter from South Huron indicating the same is attached for the Board’s review. Lambton Shores Council received a staff report on the 2022 budget at their October 19th and passed the following resolution with no additional comments:

THAT Report DCS 41-2021 regarding the Grand Bend Area Joint Sewage Board 2022 Draft Budget be received. Carried

The Tri-Party Agreement includes the following clause

20. Joint Sewage Board Approval

The Joint Sewage Board is to take all necessary steps to have the draft Budgets completed and approved by November 30 in each preceding calendar year and then submit it to the Municipal Councils of the Participating Municipalities for approval before December 31st.

Based on the above, the Board is now in a position to approve the budget and forward it on to South Huron and Lambton Shores for final approval and inclusion in their respective budgets.

The final budget is being presented, as attached. No changes have been made to the draft, with the exception that the year-to-date 2021 financials have been updated to October 31, 2021.

ALTERNATIVES TO CONSIDER

The Board could make changes to the budget; however any changes would be made without the opportunity for comment from South Huron or Lambton Shores.

RECOMMENDED ACTIONS

THAT Report STB 07-2019 regarding the “2022 Budget Approval” be received; and

THAT the Grand Bend Area Joint Sewage Board approves the final 2022 Budget attached; and

THAT the final 2022 budget be forwarded to the Municipal Councils of Lambton Shores and South Huron for Council Approval.

FINANCIAL IMPACT

The 2022 final budget currently is established at \$ 718,042.17 which includes a transfer to reserve of \$ 221,898.59 for Capital replacement. Based on the averaged flow data, the municipal split is estimated as follows:

Lambton Shores: \$468,497.21 – An increase of \$33,282.13 over 2021
South Huron : \$249,544.96 – A decrease of 20,682.50 over 2021

Actual municipal invoicing will be based on actual flows realized at the end of the year.

CONSULTATION

South Huron Council
Lambton Shores Council



CORPORATION OF THE MUNICIPALITY OF SOUTH HURON

322 Main Street South P.O. Box 759

Exeter Ontario

N0M 1S6

Phone: 519-235-0310 Fax: 519-235-3304

Toll Free: 1-877-204-0747

November 16, 2021

Grand Bend Area Joint Sewage Board
c/o Lambton Shores
9575 Port Franks Road
Thedford ON N0M 2N0

Attention: Steve McAuley

Re: 2022 Draft Budget – Grand Bend Sewer System

South Huron Council received the draft budget at their October 18th and November 15th, 2021 Regular Council Meetings. On behalf of Council I wish to advise that no issues were noted and no comments were directed to be forwarded with respect to the draft 2022 Budget after their review.

The above is for your consideration and any attention deemed necessary.

Sincerely,

Alex Wolfe, Deputy Clerk
Municipality of South Huron
519-235-0310 x224
awolfe@southhuron.ca

GRAND BEND AREA JOINT SEWAGE OPERATIONS
2022 Budget - Final

| | 2021 BUDGET | 2021 DRAFT YTD To Oct. 31, 2021 | 2021 Projection | 2022 BUDGET | Budget Increase\Decrease | | | |
|--|-------------------|------------------------------------|-------------------|-------------------|-----------------------------|-------------------------|----------------------|------------------------|
| OWNER CONTRIBUTION | | | | | | | | |
| LAMBTON SHORES CONTRIBUTION | 435,215.08 | 326,411.31 | 435,215.08 | 468,497.21 | 33,282.13 | | | |
| SOUTH HURON CONTRIBUTION | 270,227.46 | 202,670.59 | 270,227.46 | 249,544.96 | -20,682.50 | | | |
| Intrest on Reserve | | 5,135.60 | 4,000.00 | | | | | |
| TOTAL REVENUE | 705,442.54 | 534,217.50 | 709,442.54 | 718,042.17 | 12,599.63 | | | |
| | | | | | | Lambton Shores Share | South Huron Share | Basis of Cost Split |
| ADMINISTRATIVE AND GOVERNANCE | | | | | | | | |
| GENERAL ADMIN CHARGE STF | 4,096.14 | | 4,015.82 | 4,096.14 | 0.00 | 2,650.20 | 1,445.94 | 1 |
| INSURANCE STF | 23,315.69 | 23,109.84 | 23,109.84 | 25,420.82 | 2,105.13 | 16,447.27 | 8,973.55 | 1 |
| AUDIT | 7,490.88 | 880.75 | 7,490.88 | 7,640.70 | 149.82 | 4,943.53 | 2,697.17 | 1 |
| ACCOUNTING SERVICES | 2,122.42 | | 2,122.42 | 2,164.87 | 42.45 | 1,400.67 | 764.20 | 1 |
| IT | 500.00 | 254.38 | 400.00 | 500.00 | 0.00 | 323.50 | 176.50 | 1 |
| SCADA SUPPORT STF | 2,000.00 | 2,243.81 | 2,243.81 | 2,500.00 | 500.00 | 1,617.50 | 882.50 | 1 |
| ENGINEERING STF | 2,000.00 | | | 2,000.00 | 0.00 | 1,294.00 | 706.00 | 1 |
| LEGAL | 1,000.00 | | | 1,000.00 | 0.00 | 647.00 | 353.00 | 1 |
| CAPITAL REPLACEMENT RESERVE | 217,547.64 | 163,160.73 | 217,547.64 | 221,898.59 | 4,350.95 | 143,568.39 | 78,330.20 | 1 |
| TAXES STF | 42,707.30 | 41,946.87 | 42,707.30 | 43,561.45 | 854.15 | 21,780.72 | 21,780.72 | 2 |
| TAXES PS2 | 1,186.45 | 1,124.83 | 1,124.83 | 1,210.18 | 23.73 | 782.99 | 427.19 | 1 |
| RF INTEREST ALLOCATION | | 5,135.60 | 4,000.00 | | | | | |
| TOTAL PART A | 303,966.52 | 237,856.81 | 304,762.54 | 311,992.74 | 8,026.22 | 195,455.77 | 116,536.97 | |
| FIXED MTC & OPERATIONAL COSTS | | | | | | | | |
| TELEPHONE STF | 2,000.00 | 1,137.32 | 1,500.00 | 2,000.00 | 0.00 | 1,294.00 | 706.00 | 1 |
| TELEPHONE PS2 | 2,850.00 | 1,827.57 | 2,650.00 | 2,850.00 | 0.00 | 1,425.00 | 1,425.00 | 2 |
| COMPUTER EXPENSE | 500.00 | 436.53 | 500.00 | 500.00 | 0.00 | 336.67 | 163.33 | 3 |
| BUILDING REPAIRS & MAINT. STF | 25,000.00 | 28,301.50 | 25,000.00 | 30,000.00 | 5,000.00 | 20,199.93 | 9,800.07 | 3 |
| GROUNDS MAINTENANCE | 2,000.00 | 100.76 | 100.00 | 1,000.00 | -1,000.00 | 673.33 | 326.67 | 3 |
| ANNUAL PREVENTIVE MAINTENACE * | 10,176.00 | 9,328.22 | 10,176.00 | 10,176.00 | 0.00 | 6,851.82 | 3,324.18 | 3 |
| WETLAND PEST CONTROL | 1,000.00 | 2,544.00 | 2,544.00 | 1,000.00 | 0.00 | 673.33 | 326.67 | 3 |
| TOTAL PART B | 43,526.00 | 43,675.90 | 42,470.00 | 47,526.00 | 4,000.00 | 31,454.07 | 16,071.93 | |
| VARIABLE OPERATIONAL COSTS (RELATED TO FLOWS) | | | | | | | | |
| OMI ADMINISTRATIVE COSTS STF * | 35,021.72 | 32,103.28 | 35,021.72 | 36,683.46 | 1,661.74 | 24,700.11 | 11,983.35 | 3 |
| OPERATOR WAGES STF * | 90,704.79 | 83,146.03 | 90,704.79 | 93,020.85 | 2,316.06 | 62,633.81 | 30,387.04 | 3 |
| ELECTRICAL COSTS STF | 105,000.00 | 68,038.35 | 90,000.00 | 100,000.00 | -5,000.00 | 67,333.09 | 32,666.91 | 3 |
| ELECTRICAL COSTS PS2 | 9,500.00 | 9,961.65 | 10,000.00 | 9,500.00 | 0.00 | 6,571.74 | 2,928.26 | 4 |
| UNION GAS STF | 38,850.00 | 9,229.12 | 25,000.00 | 38,850.00 | 0.00 | 26,158.91 | 12,691.09 | 3 |
| WATER STF | 16,000.00 | 23,857.31 | 25,000.00 | 16,000.00 | 0.00 | 10,773.29 | 5,226.71 | 3 |
| WATER PS2 | 400.00 | 246.86 | 250.00 | 400.00 | 0.00 | 276.70 | 123.30 | 4 |
| CHEMICALS * | 54,100.70 | 49,592.41 | 54,100.70 | 55,482.60 | 1,381.90 | 37,358.15 | 18,124.45 | 3 |
| LABORATORY SAMPLING * | 8,372.81 | 7,675.13 | 8,372.81 | 8,586.51 | 213.70 | 5,781.56 | 2,804.95 | 3 |
| TOTAL PART C | 357,950.02 | 283,850.14 | 338,450.02 | 358,523.43 | 573.41 | 241,587.37 | 116,936.06 | |
| TOTAL EXPENSES | 705,442.54 | 565,382.85 | 685,682.56 | 718,042.17 | 12,599.63 | 468,497.21 | 249,544.96 | |

Legend for Basis of cost split

| | |
|--|---|
| Capital split for plant (64.7% LS, 35.3% SH) | 1 |
| Capital split for PS2 (50% LS, 50% SH) | 2 |
| Flow Proportion to Plant | 3 |
| Flow Proportion to PS2 | 4 |

GRAND BEND AREA JOINT SEWAGE OPERATIONS
2022 Flow Calculations

| 2021 FLOW CALCULATION PROJECTION (m3) | | | | | | |
|---------------------------------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Month | PS2 | POG | HC Playhouse | Pinery | Oakwood | Grand Cove |
| Jan | 19278 | 1292 | 39 | 55 | 425 | 5768 |
| Feb | 16699 | 501 | 16 | 43 | 435 | 4309 |
| Mar | 24638 | 1786 | 53 | 77 | 600 | 7113 |
| Apr | 20273 | 590 | 32 | 87 | 550 | 6275 |
| May | 18842 | 358 | 42 | 150 | 507 | 4937 |
| June | 23113 | 760 | 34 | 1895 | 1206 | 5158 |
| July | 37712 | 1749 | 74 | 6234 | 2450 | 4773 |
| Aug | 28169 | 32 | 15 | 4890 | 2087 | 5496 |
| Sept | 28074 | 1207 | 24 | 1390 | 1596 | 3774 |
| Oct | 21517 | 1760 | 146 | 590 | 962 | 4466 |
| Nov | 22707 | 1069 | 42 | 135 | 739 | 4753 |
| Dec | 20329 | 1435 | 37 | 42 | 495 | 5472 |
| Total Annual | 281351 | 12539 | 554 | 15588 | 12052 | 62294 |
| Avg Month | 23446 | 1045 | 46 | 1299 | 1004 | 5191 |
| Indicates 2020 actual flows | | | | | | |

| 2022 FLOW CALCULATION ESTIMATE (m3) | | | | |
|---|-----------------|-------------------|----------------|----------------|
| | 2022 (3 YR AVG) | 2021 (projection) | 2020 | 2019 |
| Main Pump (PS2) | 280,824 | 281,351 | 278,077 | 283,045 |
| GRAND COVE | 71,020 | 62,294 | 62,892 | 87,875.36 |
| OAKWOOD | 15,540 | 12,052 | 13,044 | 21,525 |
| Lambton Shores (PS2 - GC & Oakwood) | 194,264 | 207,005 | 202,141 | 173,645 |
| POG | 12,863 | 12,539 | 14,175 | 11,875 |
| HCP | 900 | 554 | 609 | 1,536 |
| Pinery | 12,523 | 15,588 | 8,218 | 13,764 |
| Grand Total Flows To GB plant (PS2 Flow Plus Remaining Sources) | 307,110 | 310,032 | 301,079 | 310,220 |
| MUNICIPAL TOTALS | | | | |
| SOUTH HURON | 100,323 | 87,439 | 90,720 | 122,811 |
| LAMBTON SHORES | 206,787 | 222,593 | 210,359 | 187,409 |
| TOTAL | 307,110 | 310,032 | 301,079 | 310,220 |

MUNICIPAL FLOW APROPORTIONMENT

| | Lambton Shores | South Huron |
|----------------------|----------------|-------------|
| PS2 Flow Proportions | 69.18% | 30.82% |
| GB Plant Proportions | 67.33% | 32.67% |

| Revenue Calculation | | | |
|--|-------------------|-------------------|-------------------|
| | Total | Lambton Shores | South Huron |
| Part A - per agreement | | | |
| PS 2- 50% LS, 50% SH | 43,561.45 | 21,780.72 | 21,780.72 |
| Treatment Facility - 64.7% LS, 35.3% SH | 268,431.30 | 173,675.05 | 94,756.25 |
| Total Part A | 311,992.74 | 195,455.77 | 116,536.97 |
| Part B - Per Agreement \ Flow Based | | | |
| PS2 - per agreement | 2,850.00 | 1,425.00 | 1,425.00 |
| Plant - per agreement | 2,000.00 | 1,294.00 | 706.00 |
| Plant - Flow based | 42,676.00 | 28,735.07 | 13,940.93 |
| Total Part B | 47,526.00 | 31,454.07 | 16,071.93 |
| Part C - Flow Based | | | |
| PS2 | 9,900.00 | 6,848.44 | 3,051.56 |
| Plant | 348,623.43 | 234,738.93 | 113,884.50 |
| Total Part C | 358,523.43 | 241,587.37 | 116,936.06 |
| Total | 718,042.17 | 468,497.21 | 249,544.96 |