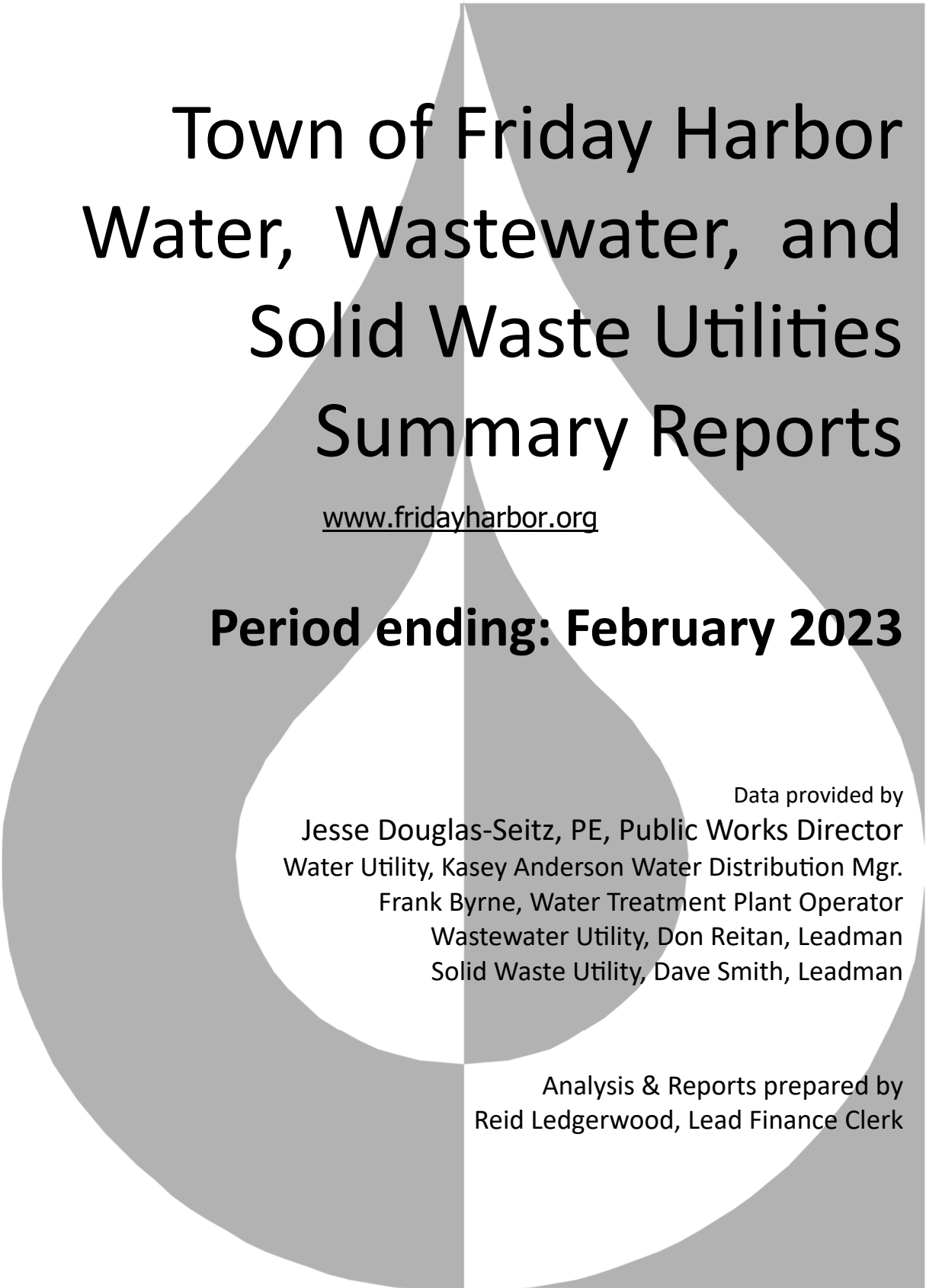




# Town of Friday Harbor Water, Wastewater, and Solid Waste Utilities Summary Reports

[www.fridayharbor.org](http://www.fridayharbor.org)

**Period ending: February 2023**

Data provided by  
Jesse Douglas-Seitz, PE, Public Works Director  
Water Utility, Kasey Anderson Water Distribution Mgr.  
Frank Byrne, Water Treatment Plant Operator  
Wastewater Utility, Don Reitan, Leadman  
Solid Waste Utility, Dave Smith, Leadman

Analysis & Reports prepared by  
Reid Ledgerwood, Lead Finance Clerk

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**Water - Use MTD**

| <b>Water Class</b> | <b>Accounts</b> | <b>Gallons</b>   |
|--------------------|-----------------|------------------|
| Spe                | 2               | 8,779            |
| Sfr                | 1,018           | 2,356,600        |
| PA                 | 87              | 465,051          |
| Mfr                | 134             | 1,586,772        |
| Ind                | 14              | 85,828           |
| Com                | 223             | 1,124,538        |
| <b>TOTAL</b>       | <b>1,478</b>    | <b>5,627,568</b> |

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05-Apr-23

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## Water - Use MTD by Location

| Water Class          | Accounts     | Gallons          |
|----------------------|--------------|------------------|
| <b>Location: IN</b>  |              |                  |
| Spe                  | 2            | 8,779            |
| Sfr                  | 661          | 1,639,769        |
| PA                   | 78           | 366,524          |
| Mfr                  | 129          | 1,483,528        |
| Ind                  | 13           | 83,295           |
| Com                  | 220          | 1,111,530        |
|                      | 1,103        | 4,693,425        |
| <b>Location: Out</b> |              |                  |
| Sfr                  | 357          | 716,831          |
| PA                   | 9            | 98,527           |
| Mfr                  | 5            | 103,244          |
| Ind                  | 1            | 2,533            |
| Com                  | 3            | 13,008           |
|                      | 375          | 934,143          |
| <b>TOTAL</b>         | <b>1,478</b> | <b>5,627,568</b> |

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## Water use MTD - Accounts with Sewer

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| Sewer Class          | Accounts     | Gallons          |
|----------------------|--------------|------------------|
| <b>Location: IN</b>  |              |                  |
| Mfr In/low Strength  | 56           | 588,171          |
| Com In/lo Strength   | 168          | 642,174          |
| Dot In/lo Strength   | 3            | 25,060           |
| Ind In/hi Strength   | 1            | 20,438           |
| Ind In/lo Strength   | 10           | 58,280           |
| Lmf In/lo Strength   | 1            | 2,914            |
| Com In/hi Strength   | 41           | 450,948          |
| Mfr In/lo Strength   | 66           | 615,215          |
| Mhp In/lo Strength   | 2            | 203,800          |
| PA In/hi Strength    | 3            | 49,777           |
| PA In/lo Strength    | 49           | 212,119          |
| Sfr IN Town          | 635          | 1,594,543        |
| Low Rate / IN Town   | 10           | 20,264           |
|                      | 1,045        | 4,483,703        |
| <b>Location: Out</b> |              |                  |
| UW Out/hi Strength   | 1            | 60,400           |
| Mfr Out/lo Strength  | 1            | 13,599           |
| Sfr Out of Town      | 4            | 11,331           |
|                      | 6            | 85,330           |
| <b>TOTAL</b>         | <b>1,051</b> | <b>4,569,033</b> |

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05-Apr-23

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## Refuse - Pickups by Class

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| Class        | Pickups        |
|--------------|----------------|
| Com          | 2,861.0        |
| Ind          | 17.5           |
| Mfr          | 595.0          |
| PA           | 135.0          |
| Refuse Only  | 399.5          |
| Sfr          | 1,974.0        |
| <b>TOTAL</b> | <b>5,982.0</b> |

| <b>Refuse - Active Accounts</b> |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|
|                                 |  |  |  |  |  |

| Refuse Type    | Accounts |
|----------------|----------|
| Cans           | 877      |
| Cans Low Rate  | 13       |
| Compactors     | 4        |
| Large Dumpster | 75       |
| Medium Dumpste | 57       |
| PA             | 41       |
| Small Dumpster | 43       |
| TOTAL          | 1,110    |

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## Recycle - pickups by Class

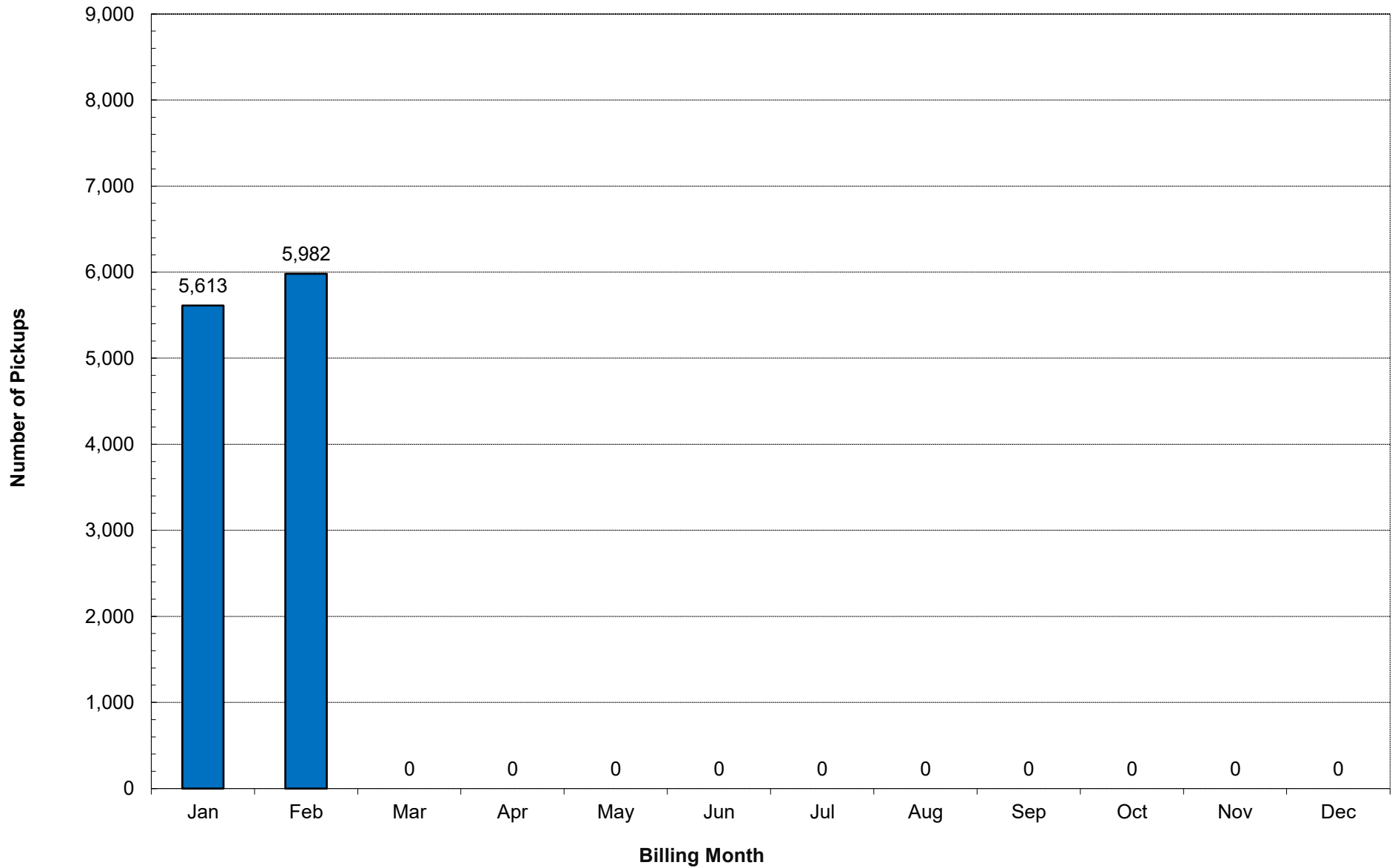
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| Class        | Pickups    |
|--------------|------------|
| Com          | 1          |
| Ind          | 1          |
| Mfr          | 80         |
| PA           | 0          |
| RefuseOnly   | 32         |
| Sfr          | 772        |
| <hr/>        |            |
| <b>TOTAL</b> | <b>886</b> |

## Refuse Pickups by Account Type - 2023 YTD

| Billing Month | SFR     | Refuse Only | PA    | MFR     | IND  | COM     | Total    |
|---------------|---------|-------------|-------|---------|------|---------|----------|
| Jan           | 1,790.0 | 340.0       | 97.0  | 507.5   | 24.0 | 2,854.5 | 5,613.0  |
| Feb           | 1,974.0 | 399.5       | 135.0 | 595.0   | 17.5 | 2,861.0 | 5,982.0  |
| Mar           |         |             |       |         |      |         | -        |
| Apr           |         |             |       |         |      |         | -        |
| May           |         |             |       |         |      |         | -        |
| Jun           |         |             |       |         |      |         | -        |
| Jul           |         |             |       |         |      |         | -        |
| Aug           |         |             |       |         |      |         | -        |
| Sep           |         |             |       |         |      |         | -        |
| Oct           |         |             |       |         |      |         | -        |
| Nov           |         |             |       |         |      |         | -        |
| Dec           |         |             |       |         |      |         | -        |
| YTD           | 3,764.0 | 739.5       | 232.0 | 1,102.5 | 41.5 | 5,715.5 | 11,595.0 |

## Total Refuse Pickups by Month - 2023



## Trout Lake Reservoir Level

Months with positive levels may reflect that a removable 7.25 inch riser has been added to the top of the original spillway.

| end of | Inches above/(below) original spillway | end of | Inches above/(below) original spillway | end of | Inches above/(below) original spillway |
|--------|----------------------------------------|--------|----------------------------------------|--------|----------------------------------------|
| Jan-15 | 0.00                                   | Jan-18 | 0.00                                   | Jan-21 | 0.00                                   |
| Feb-15 | 0.00                                   | Feb-18 | 0.00                                   | Feb-21 | 0.00                                   |
| Mar-15 | 0.00                                   | Mar-18 | 8.75                                   | Mar-21 | 8.25                                   |
| Apr-15 | 6.50                                   | Apr-18 | 8.25                                   | Apr-21 | 4.30                                   |
| May-15 | 0.00                                   | May-18 | 1.50                                   | May-21 | 4.30                                   |
| Jun-15 | -13.00                                 | Jun-18 | -10.50                                 | Jun-21 | -5.50                                  |
| Jul-15 | -29.50                                 | Jul-18 | -29.50                                 | Jul-21 | -34.00                                 |
| Aug-15 | -42.25                                 | Aug-18 | -42.00                                 | Aug-21 | -48.00                                 |
| Sep-15 | -49.50                                 | Sep-18 | -50.00                                 | Sep-21 | -48.00                                 |
| Oct-15 | -54.50                                 | Oct-18 | -54.50                                 | Oct-21 | -54.50                                 |
| Nov-15 | -17.25                                 | Nov-18 | -55.50                                 | Nov-21 | -55.00                                 |
| Dec-15 | 0.00                                   | Dec-18 | -26.00                                 | Dec-21 | 3.00                                   |
| Jan-16 | 0.00                                   | Jan-19 | 0.00                                   | Jan-22 | 8.00                                   |
| Feb-16 | 0.00                                   | Feb-19 | 0.00                                   | Feb-22 | 8.00                                   |
| Mar-16 | 0.00                                   | Mar-19 | 2.75                                   | Mar-22 | 8.75                                   |
| Apr-16 | 6.00                                   | Apr-19 | 2.75                                   | Apr-22 | 8.75                                   |
| May-16 | -2.50                                  | May-19 | -0.75                                  | May-22 | 7.75                                   |
| Jun-16 | -11.00                                 | Jun-19 | -2.00                                  | Jun-22 | 3.50                                   |
| Jul-16 | -21.00                                 | Jul-19 | -16.00                                 | Jul-22 | -5.50                                  |
| Aug-16 | -36.50                                 | Aug-19 | -26.25                                 | Aug-22 | -19.00                                 |
| Sep-16 | -49.50                                 | Sep-19 | -40.00                                 | Sep-22 | -34.50                                 |
| Oct-16 | -51.00                                 | Oct-19 | -46.25                                 | Oct-22 | -43.00                                 |
| Nov-16 | -45.50                                 | Nov-19 | -49.75                                 | Nov-22 | -42.25                                 |
| Dec-16 | -10.35                                 | Dec-19 | -49.50                                 | Dec-22 | -34.00                                 |
| Jan-17 | 0.00                                   | Jan-20 | -11.00                                 | Jan-23 | 0.00                                   |
| Feb-17 | 0.00                                   | Feb-20 | 0.00                                   | Feb-23 | 1.50                                   |
| Mar-17 | 2.75                                   | Mar-20 | 0.00                                   | Mar-23 |                                        |
| Apr-17 | 9.00                                   | Apr-20 | 4.00                                   | Apr-23 |                                        |
| May-17 | 4.75                                   | May-20 | 0.00                                   | May-23 |                                        |
| Jun-17 | -4.00                                  | Jun-20 | -0.75                                  | Jun-23 |                                        |
| Jul-17 | -19.00                                 | Jul-20 | -8.50                                  | Jul-23 |                                        |
| Aug-17 | -32.00                                 | Aug-20 | -22.50                                 | Aug-23 |                                        |
| Sep-17 | -43.00                                 | Sep-20 | -34.00                                 | Sep-23 |                                        |
| Oct-17 | -50.50                                 | Oct-20 | -42.50                                 | Oct-23 |                                        |
| Nov-17 | -48.00                                 | Nov-20 | -45.25                                 | Nov-23 |                                        |
| Dec-17 | -11.50                                 | Dec-20 | -28.25                                 | Dec-23 |                                        |

## Flow to Town (Gross Water Production) 2023

| Billing Month | Start Date |    | End Date | Days in Period | Gross Flow to Town |
|---------------|------------|----|----------|----------------|--------------------|
| Jan           | 13-Dec     | to | 9-Jan    | 28             | 6,934,000          |
| Feb           | 10-Jan     | to | 7-Feb    | 29             | 6,653,000          |
| Mar           |            | to |          | -              | -                  |
| Apr           |            | to |          | -              | -                  |
| May           |            | to |          | -              | -                  |
| Jun           |            | to |          | -              | -                  |
| Jul           |            | to |          | -              | -                  |
| Aug           |            | to |          | -              | -                  |
| Sep           |            | to |          | -              | -                  |
| Oct           |            | to |          | -              | -                  |
| Nov           |            | to |          | -              | -                  |
| Dec           |            | to |          | -              | -                  |
|               |            |    |          | 57             | 13,587,000         |

## TOWN OF FRIDAY HARBOR

## Water Consumption By Customer Class

| 2022      | COM        | IND       | MFR        | PA         | SFR        | Special | Other Uses | TOTAL             | % of Use | Avg Daily Use |
|-----------|------------|-----------|------------|------------|------------|---------|------------|-------------------|----------|---------------|
| Jan       | 1,349,356  | 106,940   | 1,859,134  | 390,738    | 2,869,118  | 6,043   | 446,290    | 7,027,619         | 6.8%     | 226,697       |
| Feb       | 1,044,244  | 99,730    | 1,679,131  | 523,331    | 2,437,867  | 16,677  | 757,389    | 6,558,369         | 6.4%     | 226,151       |
| Mar       | 1,111,601  | 108,470   | 1,526,387  | 851,547    | 2,141,873  | 12,600  | 506,934    | 6,259,412         | 6.1%     | 201,917       |
| Apr       | 1,482,269  | 129,010   | 1,761,595  | 896,903    | 2,560,915  | 5,281   | 1,004,919  | 7,840,892         | 7.6%     | 261,363       |
| May       | 1,485,784  | 134,610   | 1,709,947  | 742,139    | 2,679,584  | 25,247  | 394,059    | 7,171,370         | 7.0%     | 231,335       |
| Jun       | 1,771,620  | 188,788   | 1,755,772  | 912,234    | 3,102,069  | 17,907  | 578,792    | 8,327,182         | 8.1%     | 277,573       |
| Jul       | 2,260,944  | 205,140   | 2,180,450  | 1,456,449  | 4,349,214  | 40,747  | 570,188    | 11,063,132        | 10.7%    | 356,875       |
| Aug       | 2,511,136  | 275,399   | 2,223,989  | 1,730,159  | 5,306,988  | 50,230  | 599,177    | 12,697,078        | 12.3%    | 409,583       |
| Sep       | 2,501,949  | 256,415   | 2,158,719  | 1,524,596  | 4,978,195  | 126,874 | 699,062    | 12,245,810        | 11.9%    | 408,194       |
| Oct       | 2,129,765  | 206,125   | 1,966,126  | 1,031,142  | 4,334,714  | 48,306  | 655,795    | 10,371,973        | 10.1%    | 334,580       |
| Nov       | 1,277,356  | 136,594   | 1,526,385  | 596,316    | 2,660,072  | 23,049  | 633,343    | 6,853,115         | 6.7%     | 228,437       |
| Dec       | 1,150,611  | 86,957    | 1,635,626  | 523,905    | 2,603,272  | 63,882  | 565,768    | 6,630,021         | 6.4%     | 213,872       |
| Total     | 20,076,635 | 1,934,178 | 21,983,261 | 11,179,459 | 40,023,881 | 436,843 | 7,411,718  | 103,045,975       | 100.0%   | 281,546       |
| Average   | 1,673,053  | 161,182   | 1,831,938  | 931,622    | 3,335,323  | 36,404  | 617,643    | Total Use         |          | 103,045,975   |
|           |            |           |            |            |            |         |            | Total Loss        |          | 6,484,025     |
| % of Use  | 19.5%      | 1.9%      | 21.3%      | 10.8%      | 38.8%      | 0.4%    | 7.2%       | Flow (Use+Loss)   |          | 109,530,000   |
| % of Flow | 18.3%      | 1.8%      | 20.1%      | 10.2%      | 36.5%      | 0.4%    | 6.8%       | Loss as % of Flow |          | 5.9%          |

| 2023      | COM       | IND     | MFR       | PA      | SFR       | Special | Other Uses | TOTAL             | % of Use | Avg Daily Use |
|-----------|-----------|---------|-----------|---------|-----------|---------|------------|-------------------|----------|---------------|
| Jan       | 1,232,316 | 71,100  | 1,688,526 | 489,071 | 2,448,171 | 18,716  | 348,632    | 6,296,532         | 51.4%    | 203,114       |
| Feb       | 1,124,538 | 85,828  | 1,586,772 | 465,051 | 2,356,600 | 8,779   | 336,857    | 5,964,425         | 48.6%    | 205,670       |
| Mar       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Apr       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| May       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Jun       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Jul       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Aug       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Sep       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Oct       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Nov       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Dec       |           |         |           |         |           |         | -          | -                 | 0.0%     | -             |
| Total     | 2,356,854 | 156,928 | 3,275,298 | 954,122 | 4,804,771 | 27,495  | 685,489    | 12,260,957        | 100.0%   | 204,349       |
| Average   | 1,178,427 | 78,464  | 1,637,649 | 477,061 | 2,402,386 | 13,748  | 57,124     | Total Use         |          | 12,260,957    |
|           |           |         |           |         |           |         |            | Total Loss        |          | 1,021,746     |
| % of Use  | 19.2%     | 1.3%    | 26.7%     | 7.8%    | 39.2%     | 0.2%    | 5.6%       | Flow (Use+Loss)   |          | 13,587,000    |
| % of Flow | 17.3%     | 1.2%    | 24.1%     | 7.0%    | 35.4%     | 0.2%    | 5.0%       | Loss as % of Flow |          | 7.5%          |

## TOWN OF FRIDAY HARBOR

# Net Water Production - 2023

Amounts in Gallons

|                         | Jan              | Feb              | Mar | Apr | May | Jun |
|-------------------------|------------------|------------------|-----|-----|-----|-----|
| <b>Gross Production</b> | <b>6,934,000</b> | <b>6,653,000</b> | -   | -   | -   | -   |
| 3% meter loss           | 178,437          | 168,827          | -   | -   | -   | -   |
| Flushing                | 65,195           | 113,030          |     |     |     |     |
| SJC#3 FD use            | 5,000            | 5,000            |     |     |     |     |
| Leaks                   | 100,000          | 50,000           |     |     |     |     |
| Other non-metered use   | -                |                  |     |     |     |     |
| <b>Total other uses</b> | <b>(348,632)</b> | <b>(336,857)</b> | -   | -   | -   | -   |
| <b>Net production</b>   | <b>6,585,368</b> | <b>6,316,143</b> | -   | -   | -   | -   |

|                         | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------------------|-----|-----|-----|-----|-----|-----|
| <b>Gross Production</b> | -   | -   | -   | -   | -   | -   |
| 3% meter loss           | -   | -   | -   | -   | -   | -   |
| Flushing                |     |     |     |     |     |     |
| SJC#3 FD use            |     |     |     |     |     |     |
| Leaks                   |     |     |     |     |     |     |
| Other non-metered use   |     |     |     |     |     |     |
| <b>Total other uses</b> | -   | -   | -   | -   | -   | -   |
| <b>Net production</b>   | -   | -   | -   | -   | -   | -   |

# Water Consumption & Production

Revised meter loss reporting begin 07/09 (per Robert Krebs, Evergreen Rural Water Assoc.)

| Period                |        | Use<br>(Consumption)       | Cumulative<br>Use YTD | Flow<br>(Production)        | Unaccounted<br>over / (under) | Cumulative<br>Flow YTD | Average<br>Daily Flow |
|-----------------------|--------|----------------------------|-----------------------|-----------------------------|-------------------------------|------------------------|-----------------------|
| <b>2021</b>           |        |                            |                       |                             |                               |                        |                       |
|                       | Jan-21 | 6,818,211                  | 6,818,211             | 7,320,000                   | -501,789                      | 7,320,000              | 236,129               |
|                       | Feb-21 | 7,124,868                  | 13,943,079            | 7,539,000                   | -414,132                      | 14,859,000             | 269,250               |
|                       | Mar-21 | 6,271,616                  | 20,214,695            | 7,160,000                   | -888,384                      | 22,019,000             | 230,968               |
|                       | Apr-21 | 7,669,307                  | 27,884,002            | 8,464,000                   | -794,693                      | 30,483,000             | 282,133               |
|                       | May-21 | 9,525,250                  | 37,409,253            | 10,115,000                  | -589,750                      | 40,598,000             | 326,290               |
|                       | Jun-21 | 10,293,730                 | 47,702,983            | 10,626,000                  | -332,270                      | 51,224,000             | 354,200               |
|                       | Jul-21 | 13,591,377                 | 61,294,359            | 13,725,000                  | -133,623                      | 64,949,000             | 442,742               |
|                       | Aug-21 | 14,723,426                 | 76,017,785            | 14,978,000                  | -254,574                      | 79,927,000             | 483,161               |
|                       | Sep-21 | 11,630,682                 | 87,648,467            | 12,019,000                  | -388,318                      | 91,946,000             | 400,633               |
| Average               | Oct-21 | 8,004,636                  | 95,653,104            | 8,502,000                   | -497,364                      | 100,448,000            | 274,258               |
| Monthly Use           | Nov-21 | 7,027,754                  | 102,680,858           | 7,580,000                   | -552,246                      | 108,028,000            | 252,667               |
| 9,093,646             | Dec-21 | 6,442,893                  | 109,123,751           | 6,975,000                   | -532,107                      | 115,003,000            | 225,000               |
| Year Total:           | 12     | 109,123,751                | Cumulative            | 115,003,000                 | -5,879,249                    | Cumulative             | 314,786               |
| <b>2022</b>           |        |                            |                       |                             |                               |                        |                       |
|                       | Jan-22 | 7,027,619                  | 7,027,619             | 7,491,000                   | -463,381                      | 7,491,000              | 241,645               |
|                       | Feb-22 | 6,558,369                  | 13,585,988            | 7,118,000                   | -559,631                      | 14,609,000             | 254,214               |
|                       | Mar-22 | 6,259,412                  | 19,845,401            | 6,844,000                   | -584,588                      | 21,453,000             | 220,774               |
|                       | Apr-22 | 7,840,892                  | 27,686,293            | 8,245,000                   | -404,108                      | 29,698,000             | 274,833               |
|                       | May-22 | 7,171,370                  | 34,857,663            | 8,041,000                   | -869,630                      | 37,739,000             | 259,387               |
|                       | Jun-22 | 8,327,182                  | 43,184,845            | 8,658,000                   | -330,818                      | 46,397,000             | 288,600               |
|                       | Jul-22 | 11,063,132                 | 54,247,977            | 11,349,000                  | -285,868                      | 57,746,000             | 366,097               |
|                       | Aug-22 | 12,697,078                 | 66,945,055            | 13,224,000                  | -526,922                      | 70,970,000             | 426,581               |
|                       | Sep-22 | 12,245,810                 | 79,190,866            | 12,855,000                  | -609,190                      | 83,825,000             | 428,500               |
| Average               | Oct-22 | 10,371,973                 | 89,562,839            | 10,891,000                  | -519,027                      | 94,716,000             | 351,323               |
| Monthly Use           | Nov-22 | 6,853,115                  | 96,415,954            | 7,442,000                   | -588,885                      | 102,158,000            | 248,067               |
| 8,587,165             | Dec-22 | 6,630,021                  | 103,045,975           | 7,372,000                   | -741,979                      | 109,530,000            | 237,806               |
| Year Total:           | 12     | 103,045,975                | Cumulative            | 109,530,000                 | -6,484,025                    | Cumulative             | 299,819               |
| <b>2023</b>           |        |                            |                       |                             |                               |                        |                       |
|                       | Jan-23 | 6,296,532                  | 6,296,532             | 6,934,000                   | -637,468                      | 6,934,000              | 223,677               |
|                       | Feb-23 | 5,964,425                  | 12,260,957            | 6,653,000                   | -688,575                      | 13,587,000             | 237,607               |
|                       | Mar-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
|                       | Apr-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
|                       | May-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
|                       | Jun-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
|                       | Jul-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
|                       | Aug-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
|                       | Sep-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
| Average               | Oct-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
| Monthly Use           | Nov-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
| 6,130,479             | Dec-23 | 0                          | 12,260,957            | 0                           | 0                             | 13,587,000             | 0                     |
| Year Total:           | 2      | 12,260,957                 | Cumulative            | 13,587,000                  | -1,326,043                    | Cumulative             | 230,642               |
| <b>3 Year Average</b> |        |                            |                       |                             |                               |                        |                       |
|                       |        | Use<br>8,631,949 gal/month |                       | Flow<br>9,158,462 gal/month |                               |                        | Daily Flow<br>281,749 |

## Utilization of Sustainable Annual Water System Capacity

Period start: Mar-22

Period end: Feb-23

Sustainable Annual Yield (TFH  
Comprehensive Water System Plan  
Update, June, 2013, page 3-6)

205 million gallons

Annual use - 12 month period  
percent of Sustainable Annual Yield

109 million gallons

53%

Exceeds Sustainable Yield?

**No**

## Finish Water Flow to Town

Source: Water Treatment Facility Monthly Report

Revised reporting period per K. Anderson

Start/end dates may change monthly.

23 Days in reporting period.

| January 10, 2023 |       | February 7, 2023 |       |
|------------------|-------|------------------|-------|
| Day              | Flow  | Day              | Flow  |
| 10               | 128   | 1                | 200   |
| 11               | 226   | 2                | 228   |
| 12               | 281   | 3                | 264   |
| 13               | 261   | 4                | 222   |
| 14               | 284   | 5                | 210   |
| 15               | 183   | 6                | 256   |
| 16               | 214   | 7                | 229   |
| 17               | 225   | 8                |       |
| 18               | 254   | 9                |       |
| 19               | 264   | 10               |       |
| 20               | 220   | 11               |       |
| 21               | 222   | 12               |       |
| 22               | 191   | 13               |       |
| 23               | 237   | 14               |       |
| 24               | 239   | 15               |       |
| 25               | 231   | 16               |       |
| 26               | 191   | 17               |       |
| 27               | 216   | 18               |       |
| 28               | 232   | 19               |       |
| 29               | 269   | 20               |       |
| 30               | 179   | 21               |       |
| 31               | 297   | 22               |       |
| 22               | 5,044 | 7                | 1,609 |

Total Days 29

Total Flow 6,653

1,000's of gallons

## Rainfall - Trout Lake Water Treatment Facility

all figures in inches

|       | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | average<br>(2005-14) |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| Jan   | 5.49  | 6.87  | 6.51  | 2.34  | 3.82  | 4.73  | 5.90  | 3.46  | 4.14  | 2.86  | 4.61                 |
| Feb   | 1.01  | 1.61  | 2.83  | 1.78  | 1.50  | 1.24  | 2.74  | 3.38  | 1.32  | 4.22  | 2.16                 |
| Mar   | 2.33  | 0.91  | 3.70  | 1.99  | 2.05  | 3.30  | 3.37  | 3.09  | 3.63  | 3.88  | 2.83                 |
| Apr   | 1.37  | 2.23  | 1.49  | 1.32  | 2.07  | 1.47  | 2.96  | 1.91  | 2.70  | 1.94  | 1.95                 |
| May   | 1.08  | 1.24  | 0.78  | 1.26  | 1.69  | 2.09  | 3.07  | 1.09  | 2.20  | 1.05  | 1.56                 |
| Jun   | 1.63  | 0.56  | 1.03  | 1.16  | 0.35  | 1.10  | 0.68  | 2.60  | 0.83  | 0.52  | 1.05                 |
| Jul   | 0.70  | 0.26  | 1.56  | 0.21  | 0.45  | 0.11  | 0.84  | 1.04  | 0.00  | 0.36  | 0.55                 |
| Aug   | 1.60  | 0.03  | 0.64  | 1.88  | 0.81  | 0.72  | 0.29  | 0.00  | 0.95  | 0.49  | 0.74                 |
| Sep   | 0.94  | 1.15  | 0.54  | 0.84  | 1.58  | 4.35  | 0.72  | 0.12  | 5.08  | 1.34  | 1.67                 |
| Oct   | 3.50  | 1.89  | 2.12  | 1.83  | 5.24  | 1.38  | 2.29  | 6.40  | 1.42  | 4.00  | 3.01                 |
| Nov   | 4.28  | 10.43 | 2.32  | 5.15  | 6.76  | 2.94  | 4.50  | 3.32  | 2.49  | 4.00  | 4.62                 |
| Dec   | 2.89  | 3.74  | 4.59  | 3.70  | 1.80  | 6.55  | 1.88  | 4.79  | 2.28  | 3.37  | 3.56                 |
| Total | 26.82 | 30.92 | 28.11 | 23.46 | 28.12 | 29.98 | 29.24 | 31.20 | 27.04 | 28.03 | 28.29                |

Cumulative thru

|            |             |             |             |             |             |             |             |             |             |             |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Feb</b> | <b>6.50</b> | <b>8.48</b> | <b>9.34</b> | <b>4.12</b> | <b>5.32</b> | <b>5.97</b> | <b>8.64</b> | <b>6.84</b> | <b>5.46</b> | <b>7.08</b> |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|

|       | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | 2021  | 2022  | 2023 | 2024 | average<br>(2015-Current) |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|---------------------------|
| Jan   | 3.97  | 2.17  | 1.60  | 5.10  | 3.87  | 7.32  | 4.36  | 4.49  | 1.57 |      | 3.83                      |
| Feb   | 2.95  | 4.83  | 2.99  | 3.80  | 1.76  | 5.34  | 3.41  | 1.38  | 2.18 |      | 3.18                      |
| Mar   | 3.62  | 2.88  | 3.27  | 1.48  | 0.87  | 1.25  | 1.18  | 2.64  |      |      | 2.15                      |
| Apr   | 0.51  | 0.75  | 2.20  | 3.10  | 1.61  | 1.38  | 1.12  | 2.25  |      |      | 1.61                      |
| May   | 0.30  | 0.48  | 1.61  | 0.07  | 1.29  | 1.49  | 0.40  | 1.70  |      |      | 0.92                      |
| Jun   | 0.14  | 1.22  | 0.75  | 0.72  | 0.61  | 1.25  | 0.69  | 1.70  |      |      | 0.89                      |
| Jul   | 0.36  | 0.32  | 0.15  | 0.18  | 0.75  | 0.86  | 0.00  | 0.68  |      |      | 0.41                      |
| Aug   | 0.94  | 0.11  | 0.11  | 0.01  | 0.84  | 0.68  | 0.30  | 0.09  |      |      | 0.39                      |
| Sep   | 1.28  | 1.40  | 0.71  | 1.27  | 2.74  | 2.34  | 3.76  | 0.01  |      |      | 1.69                      |
| Oct   | 3.53  | 4.80  | 4.28  | 2.23  | 3.33  | 3.39  | 4.34  | 3.78  |      |      | 3.71                      |
| Nov   | 6.19  | 3.47  | 4.32  | 4.32  | 2.1   | 4.68  | 11.31 | 3.67  |      |      | 5.01                      |
| Dec   | 5.26  | 4.02  | 3.83  | 4.26  | 3.63  | 6.81  | 4.59  | 3.55  |      |      | 4.49                      |
| Total | 29.05 | 26.45 | 25.82 | 26.54 | 23.40 | 36.79 | 35.46 | 25.94 | 3.75 | 0.00 | 28.27                     |

Cumulative thru

|            |             |             |             |             |             |              |             |             |             |             |
|------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| <b>Feb</b> | <b>6.92</b> | <b>7.00</b> | <b>4.59</b> | <b>8.90</b> | <b>5.63</b> | <b>12.66</b> | <b>7.77</b> | <b>5.87</b> | <b>3.75</b> | <b>0.00</b> |
|------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|

# Prevention of Wastewater Facility Overloading

Period start: Feb-22

Period end: Jan-23

## INFLUENT BOD LOADING

(Pounds per Day)

## AVG. EFFLUENT FLOW

(Millions of Gallons per Day)

## SUSPENDED SOLIDS LOADING

(Pounds per Day)

Design Criteria (06/06 NPDES  
Permit #WA-002358-2, pg 12,  
paragraph S4.A) max.month

1,600

Design Criteria (06/06 NPDES  
Permit #WA-002358-2, pg 12,  
paragraph S4.A) max.month

0.69000

Design Criteria (06/06 NPDES  
Permit #WA-002358-2, pg 12,  
paragraph S4.A) max.month

1,110

85% Capacity Planning  
Threshold (06/06 NPDES  
Permit #WA-002358-2, pg 12,  
paragraph S4.B.1)

1,360

85% Capacity Planning  
Threshold (06/06 NPDES  
Permit #WA-002358-2, pg 12,  
paragraph S4.B.1)

0.58650

85% Capacity Planning  
Threshold (06/06 NPDES  
Permit #WA-002358-2, pg 12,  
paragraph S4.B.1)

944

Month with highest average  
loading in period

Jun-22

Month with highest average  
flow in period

Dec-22

Month with highest average  
loading in period

Aug-22

Highest average monthly  
loading in period

1,127

Highest average monthly flow  
in period

0.2907

Highest average monthly  
loading in period

526

% of Design Criteria

**70%**

% of Design Criteria

**42%**

% of Design Criteria

**47%**

Exceeds Design Criteria?

**No**

Exceeds Design Criteria?

**No**

Exceeds Design Criteria?

**No**

Previous month's loading

820

Previous month's flow

0.2066

Previous month's loading

357

Following month's loading

803

Following month's flow

0.2771

Following month's loading

347

Exceeds Planning Threshold  
for 3 consecutive months?**No**Exceeds Planning Threshold  
for 3 consecutive months?**No**Exceeds Planning Threshold for  
3 consecutive months?**No**