



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

www.fridayharbor.org

Period ending: Jan 2021

Data provided by
Wayne Haefele, PE, Public Works Director
Water Utility, Mike Deegan, Water System Mgr.
Frank Byrne, Water Treatment Plant Operator
Wastewater Utility, Don Reitan, Leadman
Solid Waste Utility, Dave Smith, Leadman

Analysis & Reports prepared by
Mike Greene, System Administrator

Water - use MTD

| |
|------------|
| sourceDate |
| / |
| 1 / 2021 |

Spe=Special, Sfr=Single Family Residential, P.A= Public Authority, Mfr=Multi-family, Ind=Industrial, Com=Commerc

| Water Class | Accounts | Gallons |
|--------------------|-----------------|------------------|
| Spe | 2 | 14,797 |
| Sfr | 1001 | 2,857,180 |
| PA | 81 | 421,580 |
| Mfr | 131 | 1,925,507 |
| Ind | 14 | 86,800 |
| Com | 221 | 943,778 |
| TOTAL | 1,450 | 6,249,642 |

Water use MTD - accounts with sewersourceDate
/
1 / 2021

| Sewer Class | Accounts | Gallons |
|----------------------|------------|-----------------|
| Location: IN | | |
| Mfr In/low Strength | 60 | 607,453 |
| Com In/lo Strength | 164 | 532,950 |
| Dot In/lo Strength | 3 | 25,350 |
| Ind In/hi Strength | 1 | 32,570 |
| Ind In/lo Strength | 10 | 48,610 |
| Lmf In/lo Strength | 1 | 3,010 |
| Com In/hi Strength | 43 | 379,256 |
| Mfr In/lo Strength | 61 | 790,614 |
| Mhp In/lo Strength | 2 | 371,200 |
| PA In/hi Strength | 3 | 43,240 |
| PA In/lo Strength | 45 | 205,740 |
| Sfr IN Town | 623 | 1,903,500 |
| Low Rate / IN Town | 6 | 10,340 |
| | <hr/> 1022 | <hr/> 4,953,833 |
| Location: Out | | |
| UW Out/hi Strength | 1 | 58,200 |
| Mfr Out/lo Strength | 1 | 7,740 |
| Sfr Out of Town | 4 | 4,650 |
| | <hr/> 6 | <hr/> 70,590 |

| Sewer Class | Accounts | Gallons |
|-------------|----------|-----------|
| TOTAL | 1028 | 5,024,423 |

Water - use MTD by Location

sourceDate
/
1 / 2021

Spe=Special, Sfr=Single Family Residential, PA= Public Authority, Mfr=Multi-family, Ind=Industrial, Com=Commerc

| Water Class | Accounts | Gallons |
|----------------------|--------------|------------------|
| Location: IN | | |
| Spe | 2 | 14,797 |
| Sfr | 647 | 1,946,450 |
| PA | 72 | 332,990 |
| Mfr | 126 | 1,824,297 |
| Ind | 13 | 86,800 |
| Com | 218 | 929,778 |
| | 1,078 | 5,135,112 |
| Location: Out | | |
| Sfr | 354 | 910,730 |
| PA | 9 | 88,590 |
| Mfr | 5 | 101,210 |
| Ind | 1 | 0 |
| Com | 3 | 14,000 |
| | 372 | 1,114,530 |
| TOTAL | 1,450 | 6,249,642 |

Refuse - pickups by Class

sourceDate

/

1 / 2021

| Location | Class | Pickups |
|--------------|------------|----------------|
| IN | Sfr | 1,990.0 |
| | RefuseOnly | 221.0 |
| | PA | 90.0 |
| | Mfr | 613.0 |
| | Ind | 14.0 |
| | Com | 1,444.0 |
| | | 4,372.0 |
| Out | Mfr | 7.0 |
| | | 7.0 |
| TOTAL | | 4,379.0 |

Refuse - active accounts

sourceDate
/
1 / 2021

| Location | Refuse Type | Accounts |
|------------|----------------|--------------|
| IN | | |
| | Small Dumpster | 46 |
| | PA | 42 |
| | Medium Dumpste | 49 |
| | Large Dumpster | 69 |
| | Compactors | 4 |
| | Cans Low Rate | 6 |
| | Cans | 862 |
| | | <hr/> |
| | | 1,078 |
| Out | | |
| | Large Dumpster | 1 |
| | | <hr/> |
| | | 1 |
| | | <hr/> |
| | TOTAL | 1,079 |

Recycle - pickups by Class

sourceDate
/
1 / 2021

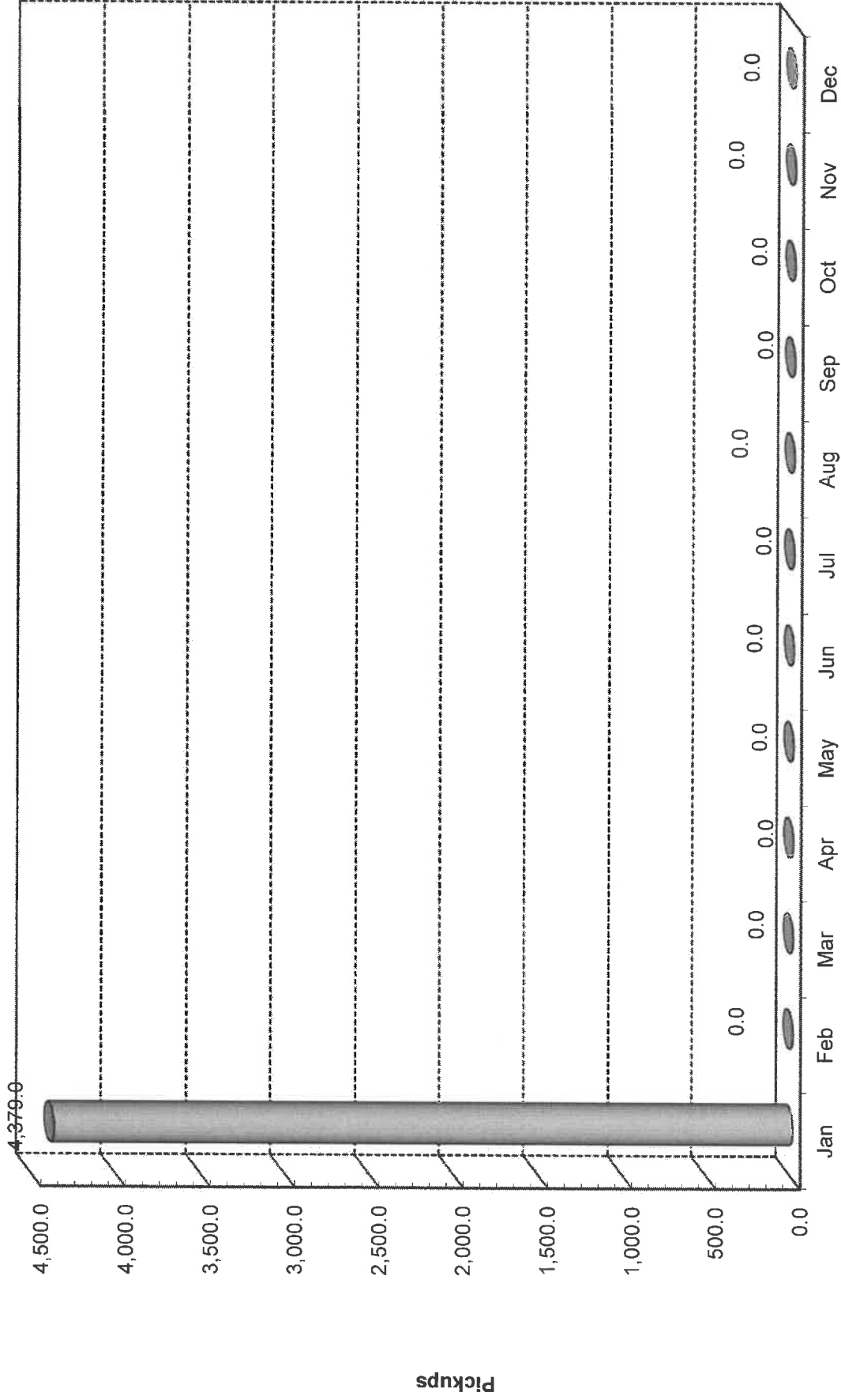
| Location | Class | Pickups |
|--------------|------------|------------|
| IN | Sfr | 845 |
| | RefuseOnly | 27 |
| | PA | 0 |
| | Mfr | 97 |
| | Ind | 3 |
| | Com | 5 |
| | | 977 |
| Out | Mfr | 0 |
| | | 0 |
| TOTAL | | 977 |

Town of Friday Harbor

Refuse Pickups - 2021 YTD

| Account Type | SFR | Refuse Only | P.A | MFR | IND | COM | Other | Total |
|--------------|---------|-------------|------|-------|------|---------|-------|---------|
| Jan | 1,990.0 | 221.0 | 90.0 | 613.0 | 14.0 | 1,444.0 | 7.0 | 4,379.0 |
| Feb | | | | | | | | 0.0 |
| 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 |
| YTD | 1,990.0 | 221.0 | 90.0 | 613.0 | 14.0 | 1,444.0 | 7.0 | 4,379.0 |

Refuse Pickups by Month - 2020



Finish Water Flow to Town
source: Water Treatment Facility Monthly Report

Revised reporting period: per K. Anderson 03/06/17
to reflect meter reading dates (?).
Start/End dates may change monthly.

31 :count of days in reporting period.

| | December 15, 2020 | | January 14, 2021 |
|------------|-------------------|------|-------------------|
| day | flow (total flow) | day | flow (total flow) |
| 13 | | 1 | 249 |
| 14 | | 2 | 308 |
| 15 | 211 | 3 | 202 |
| 16 | 288 | 4 | 215 |
| 17 | 197 | 5 | 239 |
| 18 | 282 | 6 | 249 |
| 19 | 222 | 7 | 275 |
| 20 | 300 | 8 | 239 |
| 21 | 278 | 9 | 278 |
| 22 | 220 | 10 | 222 |
| 23 | 133 | 11 | 214 |
| 24 | 236 | 12 | 243 |
| 25 | 260 | 13 | 252 |
| 26 | 172 | 14 | 182 |
| 27 | 211 | 15 | |
| 28 | 235 | 16 | |
| 29 | 241 | | |
| 30 | 191 | | |
| 31 | 276 | | |
| | | | |
| days | 3953 | days | 3367 |
| | | 31 | |
| TOTAL FLOW | | | 7320 |
| | | | 1,000's gallons |

TOWN OF FRIDAY HARBOR

WATER CONSUMPTION (Use) BY CUSTOMER CLASS

source: utilTry08 & 13.mdb

2020

| CLASS: | COM | IND | MFR | P.A | SFR | Special | other uses | TOTAL | % of Use | Avg Daily Use |
|----------------|-------------------|------------------|-------------------|-------------------|-------------------|----------------|------------------|--------------------|----------------------------------|----------------|
| JAN | 1,245,000 | 106,800 | 1,477,460 | 778,750 | 2,353,930 | 8,953 | 519,909 | 6,490,802 | 6.4% | 209,381 |
| FEB | 1,472,570 | 103,550 | 1,708,290 | 877,370 | 2,579,290 | 31,010 | 586,762 | 7,358,842 | 7.2% | 253,753 |
| MAR | 1,269,760 | 79,450 | 1,581,430 | 597,760 | 2,269,100 | 15,009 | 668,075 | 6,480,584 | 6.4% | 209,051 |
| APR | 855,070 | 67,640 | 1,845,470 | 421,860 | 2,823,760 | 41,241 | 621,772 | 6,676,813 | 6.6% | 222,560 |
| MAY | 979,450 | 83,580 | 1,960,930 | 673,160 | 3,435,470 | 102,507 | 630,453 | 7,865,550 | 7.7% | 253,727 |
| JUN | 1,163,080 | 85,270 | 2,111,320 | 827,450 | 3,654,370 | 42,123 | 699,038 | 8,582,651 | 8.4% | 286,088 |
| JUL | 1,887,081 | 227,720 | 2,157,360 | 1,425,030 | 4,208,750 | 64,034 | 730,079 | 10,700,054 | 10.5% | 345,163 |
| AUG | 2,827,729 | 284,390 | 2,761,380 | 2,072,320 | 5,553,590 | 139,076 | 800,183 | 14,438,668 | 14.2% | 465,763 |
| SEP | 2,207,410 | 222,810 | 2,194,420 | 1,543,250 | 4,211,890 | 112,212 | 579,688 | 11,071,680 | 10.9% | 369,056 |
| OCT | 1,679,380 | 128,740 | 2,014,950 | 1,065,460 | 2,981,580 | 41,258 | 675,971 | 8,587,339 | 8.4% | 277,011 |
| NOV | 1,265,230 | 97,420 | 1,931,840 | 618,010 | 2,785,370 | 30,930 | 557,304 | 7,286,104 | 7.1% | 242,870 |
| DEC | 993,490 | 89,190 | 1,717,840 | 424,420 | 2,518,610 | 28,300 | 604,796 | 6,376,646 | 6.3% | 205,698 |
| TOTAL | 17,845,250 | 1,576,560 | 23,462,690 | 11,324,840 | 39,375,710 | 656,653 | 7,674,030 | 101,915,733 | 100.0% | 278,458 |
| AVERAGE | 1,487,104 | 131,380 | 1,955,224 | 943,737 | 3,281,309 | 54,721 | 639,503 | 8,492,978 | -4,520,267 :LOSS for Year | |
| % of USE | 17.5% | 1.5% | 23.0% | 11.1% | 38.6% | 0.6% | 7.5% | 100.0% | 106,436,000 :FLOW (User+Loss) | |
| % of FLOW | 16.8% | 1.5% | 22.0% | 10.6% | 37.0% | 0.6% | 7.2% | 95.8% | -4.2% :Loss as % of Flow | |

2021

| CLASS: | COM | IND | MFR | P.A | SFR | Special | other uses | TOTAL | % of Use | Avg Daily Use |
|----------------|----------------|---------------|------------------|----------------|------------------|---------------|----------------|------------------|--------------------------------|----------------|
| JAN | 943,778 | 86,800 | 1,925,507 | 421,580 | 2,857,180 | 14,797 | 568,569 | 6,818,211 | 100.0% | 219,942 |
| FEB | | | | | | | | 0 | 0.0% | 0 |
| MAR | | | | | | | | 0 | 0.0% | 0 |
| APR | | | | | | | | 0 | 0.0% | 0 |
| MAY | | | | | | | | 0 | 0.0% | 0 |
| JUN | | | | | | | | 0 | 0.0% | 0 |
| JUL | | | | | | | | 0 | 0.0% | 0 |
| AUG | | | | | | | | 0 | 0.0% | 0 |
| SEP | | | | | | | | 0 | 0.0% | 0 |
| OCT | | | | | | | | 0 | 0.0% | 0 |
| NOV | | | | | | | | 0 | 0.0% | 0 |
| DEC | | | | | | | | 0 | 0.0% | 0 |
| TOTAL | 943,778 | 86,800 | 1,925,507 | 421,580 | 2,857,180 | 14,797 | 568,569 | 6,818,211 | 100.0% | 219,942 |
| AVERAGE | 943,778 | 86,800 | 1,925,507 | 421,580 | 2,857,180 | 14,797 | 47,381 | 6,818,211 | -501,789 :LOSS for Year | |
| % of USE | 13.8% | 1.3% | 28.2% | 6.2% | 41.9% | 0.2% | 8.3% | 100.0% | 7,320,000 :FLOW (User+Loss) | |
| % of FLOW | 12.9% | 1.2% | 26.3% | 5.8% | 39.0% | 0.2% | 7.8% | 93.1% | -6.9% :Loss as % of Flow | |

Net Water Production - 2021

amounts in gallons

| | Jan | Feb | Mar | Apr | May | Jun |
|--|------------------|-----|-----|-----|-----|-----|
| Gross Production for billing period from WTP Chemical Weights & Finish Flow to Town Report | 7,320,000 | 0 | 0 | 0 | 0 | 0 |
| 3% meter loss | 187,489 | 0 | 0 | 0 | 0 | 0 |
| Flushing | 172,750 | | | | | |
| SJC#3 FD use | 5,000 | | | | | |
| Leaks | 203,330 | | | | | |
| notes | | | | | | |
| other non-metered use | | | | | | |
| notes | | | | | | |
| Additional water in storage | | | | | | |
| notes | | | | | | |
| Total other uses | -568,569 | | | | | |
| Net production | 6,751,431 | | | | | |

| | Jul | Aug | Sep | Oct | Nov | Dec |
|--|----------|----------|----------|----------|----------|----------|
| Gross Production for billing period from WTP Chemical Weights & Finish Flow to Town Report | 0 | 0 | 0 | 0 | 0 | 0 |
| 3% meter loss | 0 | 0 | 0 | 0 | 0 | 0 |
| Flushing | | | | | | |
| SJC#3 FD use | | | | | | |
| Leaks | | | | | | |
| notes | | | | | | |
| other non-metered use | | | | | | |
| notes | | | | | | |
| Total other uses | 0 | 0 | 0 | 0 | 0 | 0 |
| Net production | 0 | 0 | 0 | 0 | 0 | 0 |

TOWN OF FRIDAY HARBOR

Water Consumption & Production

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

| Period | USE (consumption) | Cumulative Use YTD | Flow (production) | Unaccounted over / (under) | Cumulative Flow YTD | Average Daily Flow | | |
|--------------------|----------------------|-----------------------|--|-------------------------------|------------------------|--|--------------|-----------|
| 2019 | | | | | | | | |
| <i>gallons</i> | | | | | | | | |
| Jan-19 | 6,193,133 | | 6,982,000 | -788,867 | | 225,226 | | |
| Feb-19 | 7,413,239 | 13,606,372 | 7,865,000 | -451,761 | 14,847,000 | 280,893 | | |
| Mar-19 | 6,065,311 | 19,671,683 | 7,468,000 | -1,402,689 | 22,315,000 | 240,903 | | |
| Apr-19 | 7,852,517 | 27,524,200 | 8,604,000 | -751,483 | 30,919,000 | 286,800 | | |
| May-19 | 8,660,158 | 36,184,358 | 9,522,000 | -861,842 | 40,441,000 | 307,161 | | |
| Jun-19 | 12,028,022 | 48,212,379 | 12,495,000 | -466,978 | 52,936,000 | 416,500 | | |
| Jul-19 | 12,121,969 | 60,334,348 | 12,159,000 | -37,031 | 65,095,000 | 392,226 | YTD | |
| Aug-19 | 13,865,988 | 74,200,336 | 13,977,000 | -111,012 | 79,072,000 | 450,871 | Unaccounted | |
| Sep-19 | 12,170,164 | 86,370,500 | 12,723,000 | -552,836 | 91,795,000 | 424,100 | as % of Flow | |
| Average | 8,415,461 | 94,785,961 | 8,868,000 | -452,539 | 100,663,000 | 286,065 | 8.25% | |
| Monthly Use | 7,281,193 | 102,067,154 | 7,708,000 | -426,807 | 108,371,000 | 256,933 | | |
| 9,060,242 | 6,655,754 | 108,722,907 | 7,416,000 | -760,246 | 115,787,000 | 239,226 | -9,750,254 | |
| YEAR TOTAL: | 12 | 108,722,907 | Cumulative Metered/Other Use YTD | 115,787,000 | -7,064,093 | Cumulative Unaccounted 3% meter loss | 317,242 | 2,989,222 |
| 2020 | | | | | | | | |
| <i>gallons</i> | | | | | | | | |
| Jan-20 | 6,490,802 | | 6,771,000 | -280,198 | | 218,419 | | |
| Feb-20 | 7,358,842 | 13,849,644 | 7,991,000 | -632,158 | 14,762,000 | 285,393 | | |
| Mar-20 | 6,480,584 | 20,330,228 | 7,169,000 | -688,416 | 21,931,000 | 231,258 | | |
| Apr-20 | 6,676,813 | 27,007,042 | 6,984,000 | -307,187 | 28,915,000 | 232,800 | | |
| May-20 | 7,865,550 | 34,872,592 | 7,971,000 | -105,450 | 36,886,000 | 257,129 | | |
| Jun-20 | 8,582,651 | 43,455,243 | 9,137,000 | -554,349 | 46,023,000 | 304,567 | | |
| Jul-20 | 10,700,054 | 54,155,297 | 10,903,000 | -202,946 | 56,926,000 | 351,710 | YTD | |
| Aug-20 | 14,438,668 | 68,593,965 | 14,737,000 | -298,332 | 71,663,000 | 475,387 | Unaccounted | |
| Sep-20 | 11,071,680 | 79,665,645 | 11,463,000 | -391,320 | 83,126,000 | 382,100 | as % of Flow | |
| Average | 8,587,339 | 88,252,984 | 8,823,000 | -235,661 | 91,949,000 | 284,613 | 4.25% | |
| Monthly Use | 7,286,104 | 95,539,088 | 7,733,000 | -446,896 | 99,682,000 | 257,767 | | |
| 8,492,978 | 6,376,646 | 101,915,733 | 6,754,000 | -377,355 | 106,436,000 | 217,871 | -4,520,267 | |
| YEAR TOTAL: | 12 | 101,915,733 | Cumulative Metered/Other Use YTD | 106,436,000 | -4,520,267 | Cumulative Unaccounted 3% meter loss | 291,584 | 2,827,251 |
| 2021 | | | | | | | | |
| <i>gallons</i> | | | | | | | | |
| Jan-21 | 6,818,211 | | 7,320,000 | -501,789 | | 236,129 | | |
| Feb-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | | |
| Mar-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | | |
| Apr-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | | |
| May-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | | |
| Jun-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | | |
| Jul-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | YTD | |
| Aug-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | Unaccounted | |
| Sep-21 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | as % of Flow | |
| Average | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | 6.86% | |
| Monthly Use | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | | |
| 6,818,211 | 0 | 6,818,211 | 0 | 0 | 7,320,000 | 0 | -501,789 | |
| YEAR TOTAL: | 1 | 6,818,211 | Cumulative Metered/Other Use YTD | 7,320,000 | -501,789 | Cumulative Unaccounted 3% meter loss | 236,129 | 187,489 |

| | | | | |
|-------------------------|-----------------------------|------------------------------|-----------------------|---|
| 3 YEAR AVERAGES: | Use 4,621,645 :gal/month | Flow 9,181,720 :gal/month | Daily Flow 175,904 | 3 Year Loss as % of Flow 6.44% |
|-------------------------|-----------------------------|------------------------------|-----------------------|---|

source: Monthly Water Treatment Plant Report & utility.mdb's
 3 yr cumulative flow 229,543,000
 3 yr unaccounted -14,772,309

Utilization of Sustainable Annual Water System Capacity

Period start: Feb-20

Period end: Jan-21

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

113.8 million gallons
55.5%

Exceeds Sustainable Yield?

No

TOWN OF FRIDAY HARBOR

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.

| <i>end of</i> | <i>Inches above/(below) original spillway</i> | <i>end of</i> | <i>Inches above/(below) original spillway</i> | <i>end of</i> | <i>Inches above/(below) original spillway</i> |
|---------------|---|---------------|---|---------------|---|
| Jan-15 | 0.00 | Jan-18 | 0.00 | Jan-21 | 0.00 |
| Feb-15 | 0.00 | Feb-18 | 0.00 | Feb-21 | |
| Mar-15 | 0.00 | Mar-18 | 8.75 | Mar-21 | |
| Apr-15 | 6.50 | Apr-18 | 8.25 | Apr-21 | |
| May-15 | 0.00 | May-18 | 1.50 | May-21 | |
| Jun-15 | -13.00 | Jun-18 | -10.50 | Jun-21 | |
| Jul-15 | -29.50 | Jul-18 | -29.50 | Jul-21 | |
| Aug-15 | -42.25 | Aug-18 | -42.00 | Aug-21 | |
| Sep-15 | -49.50 | Sep-18 | -50.00 | Sep-21 | |
| Oct-15 | -54.50 | Oct-18 | -54.50 | Oct-21 | |
| Nov-15 | -17.25 | Nov-18 | -55.50 | Nov-21 | |
| Dec-15 | 0.00 | Dec-18 | -26.00 | Dec-21 | |
| Jan-16 | 0.00 | Jan-19 | 0.00 | Jan-22 | |
| Feb-16 | 0.00 | Feb-19 | 0.00 | Feb-22 | |
| Mar-16 | 0.00 | Mar-19 | 2.75 | Mar-22 | |
| Apr-16 | 6.00 | Apr-19 | 2.75 | Apr-22 | |
| May-16 | -2.50 | May-19 | -0.75 | May-22 | |
| Jun-16 | -11.00 | Jun-19 | -2.00 | Jun-22 | |
| Jul-16 | -21.00 | Jul-19 | -16.00 | Jul-22 | |
| Aug-16 | -36.50 | Aug-19 | -26.25 | Aug-22 | |
| Sep-16 | -49.50 | Sep-19 | -40.00 | Sep-22 | |
| Oct-16 | -51.00 | Oct-19 | -46.25 | Oct-22 | |
| Nov-16 | -45.50 | Nov-19 | -49.75 | Nov-22 | |
| Dec-16 | -10.35 | Dec-19 | -49.50 | Dec-22 | |
| Jan-17 | 0.00 | Jan-20 | -11.00 | Jan-23 | |
| Feb-17 | 0.00 | Feb-20 | 0.00 | Feb-23 | |
| 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 | |

Rainfall - Trout Lake Water Treatment Facility

source: Water Treatment Plant Weather Reports

all figures in inches

| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | average (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

| | | | | | | | | | | |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| DEC | 26.82 | 30.92 | 28.11 | 23.46 | 28.12 | 29.98 | 29.24 | 31.20 | 27.04 | 28.03 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|

all figures in inches

| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| JAN | 3.97 | 2.17 | 1.60 | 5.10 | 3.87 | 7.32 | 4.36 | | | |
| FEB | 2.95 | 4.83 | 2.99 | 3.80 | 1.76 | 5.34 | | | | |
| MAR | 3.62 | 2.88 | 3.27 | 1.48 | 0.87 | 1.25 | | | | |
| APR | 0.51 | 0.75 | 2.20 | 3.10 | 1.61 | 1.38 | | | | |
| MAY | 0.30 | 0.48 | 1.61 | 0.07 | 1.29 | 1.49 | | | | |
| JUN | 0.14 | 1.22 | 0.75 | 0.72 | 0.61 | 1.25 | | | | |
| JUL | 0.36 | 0.32 | 0.15 | 0.18 | 0.75 | 0.86 | | | | |
| AUG | 0.94 | 0.11 | 0.11 | 0.01 | 0.84 | 0.68 | | | | |
| SEP | 1.28 | 1.40 | 0.71 | 1.27 | 2.74 | 2.34 | | | | |
| OCT | 3.53 | 4.80 | 4.28 | 2.23 | 3.33 | 3.39 | | | | |
| NOV | 6.19 | 3.47 | 4.32 | 4.32 | 2.1 | 4.68 | | | | |
| DEC | 5.26 | 4.02 | 3.83 | 4.26 | 3.63 | 6.81 | | | | |
| Total | 29.05 | 26.45 | 25.82 | 26.54 | 23.40 | 36.79 | 4.36 | 0.00 | 0.00 | 0.00 |

Cumulative thru

| | | | | | | | | | | |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| DEC | 29.05 | 26.45 | 25.82 | 26.54 | 23.40 | 36.79 | 4.36 | 0.00 | 0.00 | 0.00 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|

Prevention of Wastewater Facility Overloading

Period start: Jan-20
 Period end: Dec-20

| 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 Jan-19 | Month with highest average flow in period Jan-19 | Month with highest average loading in period Jan-19 |
| Highest average monthly loading in period (pounds per day) 559 | Highest average monthly flow in period (millions of gallons per day) 0.4088414 | Highest average monthly loading in period (pounds per day) 488 |
| % of Design Criteria 35% | % of Design Criteria 59% | % of Design Criteria 44% |
| exceeds Design Criteria? No | exceeds Design Criteria? No | exceeds Design Criteria? No |
| Previous month's loading 509 | Previous month's flow 0.2541 | Previous month's loading 319 |
| Following month's loading 524 | Following month's flow 0.2799 | Following month's loading 245 |
| exceeds Planning Threshold for 3 consecutive months? No | exceeds Planning Threshold for 3 consecutive months? No | exceeds Planning Threshold for 3 consecutive months? No |