

PUBLIC NOTICE

US Army Corps of Engineers R New England District

Date: June 26, 2018 File Number: NAE-2009-1349 In Reply Refer To: Michael S. Adams Or by e-mail: michael.s.adams@usace.army.mil

696 Virginia Road Concord, MA 01742-2751

This public notice is to share with the public the **"Ducks Unlimited – Vermont In-Lieu Fee Program Annual Report – January 1, 2017 – December 31, 2017" dated "March 31, 2018".** The In-lieu Fee (ILF) program serves as an alternative form of compensation for impacts to aquatic resources authorized by the New England District Army Corps of Engineers (Corps) and/or the State of Vermont Department of Environmental Conservation.

Compensatory mitigation occurs in circumstances where a permittee is required to compensate for the functions and values of aquatic resources lost as a result of the authorization after all efforts are made to avoid and minimize impacts. ILF is an option available to the applicant instead of completing permittee-responsible mitigation. Use of the ILF program is contingent upon Corps and/or State approval.

All ILF agreements in New England are available on the Corps' website: <u>http://www.nae.usace.army.mil/Missions/Regulatory/Mitigation/InLieuFeePrograms.aspx</u>.

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Robert J. DeSista Acting Chief, Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at <u>bettina.m.chaisson@usace.army.mil</u>. You may also check here () and return

this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME:

ADDRESS:

Ducks Unlimited, Inc.

Ducks Unlimited Vermont In-Lieu Fee Program

Annual Report – January 1, 2017 – December 31, 2017



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GREAT LAKES & ATLANTIC REGION

March 31, 2018

Ducks Unlimited, Inc.

1. EXECUTIVE SUMMARY

The Ducks Unlimited Vermont In-Lieu Fee Program (DU-VT-ILF) underwent a change in management in 2017. The manager position was replaced with two staff – a new program manager and an engineer – thus increasing total staff levels. These positions were also moved from the Ducks Unlimited (DU) regional office in Michigan to the closest field office (Syracuse, New York) to facilitate better responsiveness to program needs in Vermont.

This change in leadership brought reviews of internal processes of ILF program operation. Changes included – reorganization of file storage to a centralized-database accessible to all mitigation staff, development of a new Geographic Information Systems (GIS) database for potential mitigation site screening, and a voluntary internal audit of program financials and past credit accounting. Results of the internal financial and credit accounting audit revealed minor irregularities, which have been addressed, and are described in further detail in later sections of this report. The development of a new GIS mitigation site screening tool was expanded into Vermont from earlier efforts in New York. Layers in this GIS database include: SSURGO soils, topographic wetness index, transportation features, municipal boundaries, tax parcels, existing wetlands, and locations of existing easements.

DU staff as part of this GIS database development have also used distributional modeling techniques to map wetland locations and their potential restoration opportunities comprehensively for the State of Vermont, this approach has been described previously by Hunter et al. 2012, Raney et al. 2017, and Raney and Leopold 2018. The approach spatially predicts the niche of wetlands based on relationships between known wetland sites and GIS layers (soils, terrain facets, elevation, climate) and interpolates from fitted relationships throughout the region of interest (all of Vermont) to predict wetland location. This approach is not particularly sensitive to past landscape modifications in rural landscapes – thus areas suitable for wetland restoration are identified on a rather comprehensive basis (Raney and Leopold 2018). Much of this database built on past efforts and was supported from ILF administrative funds.

A sample of modeled wetland distribution is provided in Appendix A. Such tools, used in conjunction with LiDAR contours enable DU mitigation staff to more efficiently screen wetland potential prior to field visits. As a result, we anticipate increased efficiency of site selection and more productive site reviews with the Wetland Interagency Review Team (IRT). Our tools are presented as an ArcGIS map package and can be accessed for download here: <u>https://www.dropbox.com/s/x28docyn95pr6zy/DU_Vermont</u>. Questions or comments regarding this tool can be directed to Patrick Raney, <u>praney@ducks.org</u>. DU plans to produce an online version in 2018.

DU's first ILF site (Three-Mile Bridge) will be headed to construction in 2018. The final hurdle to implementation at the site – an archeological review of potential sensitive areas was completed in 2017. DU staff have contracted out management of reed-canary grass on the site, and will be utilizing a grass-specific herbicide that has shown great potential for its control on other projects. DU secured a tree-planting order that will be installed in the spring of 2019 once the site has settled from construction activities.

DU staff and several members of the IRT visited a potential mitigation site in the Clyde River Floodplain known as the Crown Parcels in September of 2017 to cover mitigation needs in the St. Francois watershed. DU Staff were forced to abandon plans to develop this site as an ILF site after continued occurrences of illegal dumping on the property. DU mitigation staff are actively reviewing other potential sites in this service area.

DU staff are currently pursuing preservation opportunities to satisfy mitigation needs in the Connecticut River Watershed.



2. INTRODUCTION

The Ducks Unlimited Vermont In-Lieu Fee Program (DU-VT-ILF) is an option for compensatory mitigation for unavoidable impacts to waters of the United States (U.S.) in the State of Vermont, and two of the 8-digit Hydrologic Unit Code watersheds of the Richelieu River with the State of New York that exist within the State of Vermont but extend into New York. Permits are required by the U.S. Army Corps of Engineers ("Corps") for the discharge of dredged or fill material into waters of the U.S. under Section 404 of the Clean Water Act (CWA); for work and structures in or affecting navigable waters of the U.S. under Section 10 of the Rivers and Harbors Act; and by the Vermont Department of Environmental Conservation (DEC) under Section 9 of the Vermont Wetland Rules. These regulatory agencies require that aquatic resource functions and services lost due to impacts be replaced through compensatory mitigation after addressing avoidance and minimization of impacts. The DU-VT ILF program contains four service areas that cover the entire state of Vermont (See Appendix B for a Service Area Map). This report outlines the DU-VT ILF program activities from January 1, 2017 to December 31, 2017.

3. <u>IMPACTS and FEES RECEIVED</u>

During the period of this annual report, five (5) In-Lieu Fee (ILF) payments in two (2) service areas were received. The tables that follow provide information on ILF payments, impact types and amounts, and funds available for future ILF projects.

- Table 1 provides a full list of all the permitted impacts that have generated ILF payments. Included in this table is the applicant, date the payment was received, project name, permit numbers, town of impact, habitat type impacted, required amount of compensatory mitigation and the amount of the payment. This table is sorted by service area.
- Table 2 shows the financial account ledger for the DU-VT ILF program. Included in this table is the starting balance, payments received, administration fees collected, interest earned, disbursements made and the remaining account balance. This table is broken down by service area.
- Table 3 is the credit ledger for the DU-VT ILF program. This table shows the authorized advance credits, advance credits sold, credits released, released credits sold (in excess of satisfied advance credits), and the total credits available, broken down by service area.
- Table 4 indicates the dates by which initial hydrological or vegetative improvements must be made to a site that will compensate for impacts for the sold advance credits. This table is broken down by service area and year.

4. Project Implementation

As a result of the payments received into this program and the timeframe within which projects must be delivered, the DU-VT ILF Program has developed an approved mitigation plan for a project site within the Richelieu Service Area. This mitigation site has been approved and permitted, the project will be constructed in 2018. Efforts have been expended in the St. Francois and Connecticut River service areas to find and secure a site. At the time of this report a strong contender for potential acquisition in the Connecticut River has been identified. It is anticipated that sites in the St. Francois and Connecticut River suitable for mitigation will be secured in 2018 and mitigation for those sites will be advanced to the IRT in a timely manner.



Table 1: Payments Received in 2017 by Service Area

| DU-VT ILF Service Area | Applicant | Date Payment Received | Project Name | Permit Numbers | Town | Acres of Impact | Habitat Type Impacted | Required Compensatory Mitigation (Acres) | Amount of Payment |
|---------------------------------|--|-----------------------------|---|--|-------------|---|-----------------------------|---|----------------------|
| St. | New England Waste Services of | | New England Waste Services of Vermont, | | | 200 | | | sip. to al. |
| Francois | Vermont, Inc. | 5-18-2017 | Inc. Phase VI | NAE-2005-0821 | Coventry | 0.24 | PEM | 0.24 | \$26,448.00 |
| 8 | | | 8 | 2015-290 (VT Agency of Nat. Res. Permit #) | der au | 92 Y 168 | uk Andorga | roris ten | A search |
| Richelieu | SunCommon | 5-18-2017 | SunCommon | Corps Permit N/A | Ferrisburgh | 0.03 | PEM | 0.03 | \$4,163.37 |
| Richelieu | Franklin County Industrial Development Corporation | 7-14-2017 | Franklin County Industrial Development Corporation – Swanton | NAE_2017- 00064 | Swanton | 0.18 | PEM | 0.18 | \$24,169.00 |
| Kieneneu | Corporation | 7-14-2017 | Swanton | 00004 | owanton | | 1 LIVI | 0.10 | φ21,105.00 |
| | | | | | | trand. Service Service Service | | | 1 |
| Richelieu | JCST, LLC | 11-15-2017 | JCST, LLC | NAE-2005-3552 | Williston | 0.40 | PEM | 0.40 | \$53,122.00 |
| 2 M | | | | | 2 | | | | |
| Richelieu | VT Agency of Transportation | 2-20-2017 | VT Agency of Transportation | NAE-2006-03923 | Cabot | 7.19 | PSS, PEM, Stream | 6.06 and 0.05 | \$804,422.00 |
| | | 1 | | | Totals | 8.04 | N/A | 6.96 | \$912,324.37 |

Table 2: 2017 Financial Account Ledger

| DU -VT ILF Service Area | January 1, 2017 Account Balance | Payments | Administration Fee | Interest Earned | Disbursements | December 31, 2017 Account Balance |
|----------------------------|--|--------------|-----------------------|--------------------|---------------|--|
| Connecticut River | \$227,147.61 | \$0.00 | \$0.00 | \$615.05 | \$9,020.17 | \$218,742.49 |
| St. Francois | \$735,640.02 | \$26,448.00 | \$3,967.20 | \$1,991.90 | \$15,930.03 | \$744,182.69 |
| Richelieu | \$1,018,919.45 | \$885,876.37 | \$132,881.46 | \$2,758.93 | \$71,704.59 | \$1,702,968.71 |
| Upper Hudson | \$28,355.85 | \$0.00 | \$0.00 | \$76.78 | \$476.39 | \$27,956.24 |
| Totals | \$2,010,062.93 | \$912,324.37 | \$136,848.66 | \$5,442.66 | \$97,131.18 | \$2,693,850.12 |

Ducks Unlimited, Inc.

Table 3: 2017 Credit Ledger by Service Area

| Service Area | Authorized Advance Credits | Previous Advance Credits Sold | Advance Credits Sold | Credits Released | Released Credits Sold | Credits Available | |
|----------------------|-------------------------------|----------------------------------|-------------------------|---------------------|--------------------------|----------------------|--|
| Connecticut River | 25 | . 2.83 | 0 | 0 | 0 | 22.17 | |
| St. Francois | . 25 | 7.84 | 0.24 | 0 | 0 | 16.92 | |
| Richelieu | 152.94 | 10.59 | 6.72 | 0 | 0 | 135.63 | |
| Upper Hudson | 25 | 0.26 | 0 | 0 | 0 | . 24.74 | |

Table 4: Dates for Payments to be Utilized by in Each Service Area

| DU-VT ILF Service Area | Payments received | Date to be utilized by |
|---------------------------|----------------------|------------------------|
| Connecticut River | \$42,054.61 | October, 2016 |
| Connecticut River | \$232,653.00 | October, 2019 |
| Richelieu | \$212,020.50 | October, 2015 |
| Richelieu | \$458,594.68 | October, 2016 |
| Richelieu | \$302,626.68 | October, 2017 |
| Richelieu | \$224,499.00 | October, 2018 |
| Richelieu | \$233,484.00 | October, 2019 |
| Richelieu | \$885,876.37 | October, 2020 |
| St. Francois | \$852,706.48 | October, 2017 |
| St. Francois | \$23,959.00 | October, 2018 |
| St. Francois | \$26,448.00 | October, 2020 |
| Upper Hudson | \$33,700.00 | October, 2018 |

5. PROGRAM ACCOUNTING

Provided the DU ILF program experienced a change in leadership in 2017, a voluntary, internal financial audit of the program was performed. Some minor changes to starting/ending balances were identified. These mostly related to errors in carrying interest forward from one year to the next. A small disbursement from the St. Francois Watershed in the 2016 went unreported on the prior year's report. We provide a summary of the adjustments in Appendix C.



References

Hunter, E., Raney, P.A., Gibbs, J.P., Leopold, D.J. 2012. Improving wetland mitigation site identification through community distribution modeling and a patch based ranking scheme. Wetlands, 32, 841-850.

Raney, P.A., Leopold, D.J. 2018. Fantastic wetlands and where to find them: Modeling rich fen distribution in New York State with maxent. Wetlands. 38, 81-93.

Raney P.A., Macfaden, S., O'Neil-Dunne J. (2017) A LiDAR-aided hydrogeologic modeling and objectbased wetland mapping approach for Pennsylvania. Technical report to Chesapeake Bay Wetlands Work Group. Appendix A. Maxent models of wetland distribution in NY and VT following Raney and Leopold 2018.

Emergent Marsh

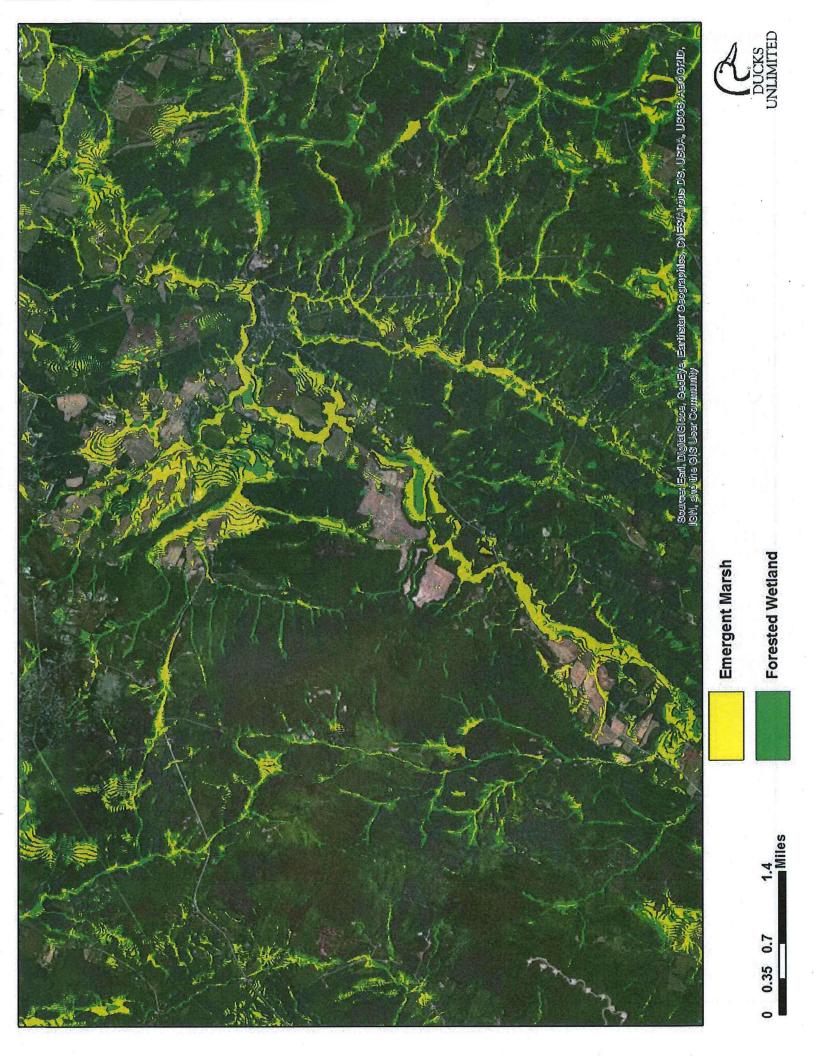




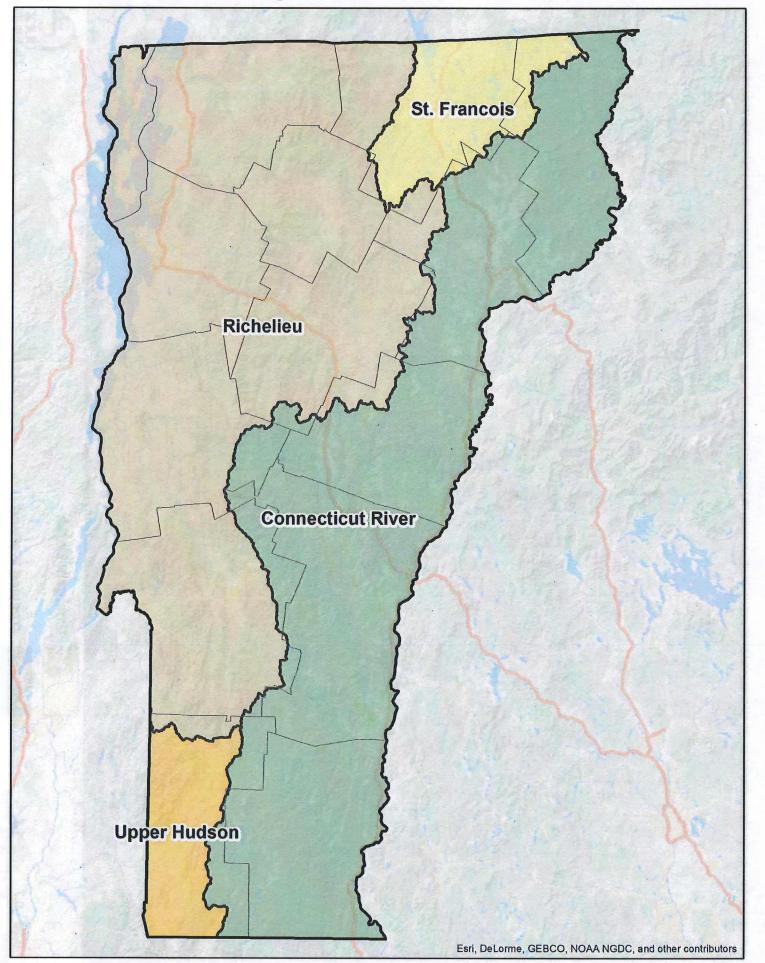
Forested Wetland



Source: Earl, Digital Clobe, GeoEye, Earlistar Geographics, CNES/Alrous DS, USDA, USOS, Aero Grid, ISN, and the OIS User Community



Appendix B: DU ILF Service Areas Map



Appendix C. Corrections to prior year Financial Account Ledgers

| DU -VT ILF Service Area | January 1, 2012 Account Balance | Payments | Administration Fee | Interest Earned | Disbursements | December 31, 2012 Account Balance | Notes |
|----------------------------|--|--------------|-----------------------|--------------------|---------------|--|---------------|
| Connecticut River | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | |
| St. Francois | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | 1 10 1 1 pl 1 |
| Richelieu | \$0.00 | \$143,391.00 | \$21,508.65 | \$165.74 | \$0.00 | \$122,048.09 | |
| Upper Hudson | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | |
| Totals | \$0.00 | \$143,391.00 | \$21,508.65 | \$165.74 | \$0.00 | \$122,048.09 | No change |

| DU -VT ILF Service Area | January 1, 2013 Account Balance | Payments | Administration Fee | Interest Earned | Disbursements | December 31, 2013 Account Balance | Notes |
|----------------------------|--|--------------|-----------------------|--------------------|---------------|--|--|
| Connecticut River | \$0.00 | \$42,054.61 | \$6,308.19 | \$39.95 | \$0.00 | \$35,786.37 | Restorna |
| St. Francois | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | a mi |
| Richelieu | \$122,048.09 | \$504,755.38 | \$75,713.31 | \$615.79 | \$0.00 | \$551,705.95 | The interest payment was not carried forward from the prior year |
| Upper Hudson | \$0.00 | \$0.00 | \$0.00 | 0 | \$0.00 | \$0.00 | |
| Totals | \$122,048.09 | \$546,809.99 | \$82,021.50 | \$655.74 | \$0.00 | \$587,492.32 | |

| DU -VT ILF Service Area | January 1, 2014 Account Balance | Payments | Administration Fee | Interest Earned | Disbursements | December 31, 2014 Account Balance | Notes |
|----------------------------|--|----------------|-----------------------|--------------------|---------------|--|--|
| Connecticut River | \$35,786.37 | \$0.00 | \$0.00 | \$34.47 | \$0.00 | \$35,820.84 | Reported total was\$35,820.85 - this was a math error |
| St. Francois | \$0.00 | \$852,706.00 | \$127,905.90 | \$698.18 | \$0.00 | \$725,498.69 | \$725,498.28 was reported incorrectly |
| Richelieu | \$551,705.95 | \$325,094.68 | \$48,764.20 | \$776.12 | \$22,162.57 | \$806,649.98 | interest wasn't carried forward from previous years |
| Upper Hudson | \$0.00 | \$0.00 | \$0.00 | A NE ST | \$0.00 | \$0.00 | and the second second |
| Totals | \$587,492.32 | \$1,177,800.68 | \$176,670.10 | \$1,508.77 | \$22,162.57 | \$1,567,969.51 | Name of the |

| DU -VT ILF Service Area | January 1, 2015 Account Balance | Payments | Administration Fee | Interest Earned | Disbursements | December 31, 2015 Account Balance | Notes |
|----------------------------|--|--------------|-----------------------|--------------------|---------------|--|---|
| Connecticut River | \$35,820.84 | \$0.00 | \$0.00 | \$67.22 | \$0.00 | \$35,888.06 | no change |
| St. Francois | \$725,498.69 | \$23,959.00 | \$3,593.85 | \$1,399.51 | \$0.00 | \$747,263.35 | math error in reported amount in prior annual report |
| Richelieu | \$806,649.98 | \$224,499.00 | \$33,674.85 | \$1,727.87 | \$76,376.27 | \$922,825.73 | an interest payment wasn't carried forward in an earlier year |
| Upper Hudson | \$0.00 | \$33,700.00 | \$5,055.00 | \$53.75 | \$0.00 | \$28,698.75 | no change |
| Totals | \$1,567,969.51 | \$282,158.00 | \$42,323.70 | \$3,248.35 | \$76,376.27 | \$1,734,675.89 | |

| DU -VT ILF Service Area | January 1, 2016 Account Balance | Payments | Administration Fee | Interest Earned | Disbursements | December 31, 2016 Account Balance | Notes |
|----------------------------|--|--------------|-----------------------|--------------------|---------------|--|--|
| Connecticut River | \$35,888.06 | \$232,653.00 | \$34,897.95 | \$418.05 | \$6,913.55 | \$227,147.61 | ind sheets |
| St. Francois | \$747,263.35 | \$0.00 | \$0.00 | \$1,353.99 | \$12,976.91 | \$735,640.43 | cents reported was off by 40 cents. |
| Richelieu | \$922,825.73 | \$233,848.00 | \$35,077.20 | \$1,874.12 | \$104,551.20 | \$1,018,919.45 | an incorrect admin fee was reported in 2017; an interest payment wasn't carried forward in an earlier year |
| Upper Hudson | \$28,698.75 | \$0.00 | \$0.00 | \$52.92 | \$395.82 | \$28,355.85 | disbursement not reported in 2017 report |
| Totals | \$1,734,675.89 | \$466,501.00 | \$69,975.15 | \$3,699.08 | \$124,837.48 | \$2,010,063.34 | A |

| DU -VT ILF Service Area | January 1, 2017 Account Balance | Payments | Administration Fee | Interest Earned | Disbursements | December 31, 2017 Account Balance | Notes |
|----------------------------|--|--------------|-----------------------|--------------------|---------------|--|-------|
| Connecticut River | \$227,147.61 | \$0.00 | \$0.00 | \$615.05 | \$9,020.17 | \$218,742.49 | |
| St. Francois | \$735,640.02 | \$26,448.00 | \$3,967.20 | \$1,991.90 | \$15,930.03 | \$744,182.69 | |
| Richelieu | \$1,018,919.45 | \$885,876.37 | \$132,881.46 | \$2,758.93 | \$71,704.59 | \$1,702,968.71 | |
| Upper Hudson | \$28,355.85 | \$0.00 | \$0.00 | \$76.78 | \$476.39 | \$27,956.24 | |
| Totals | \$2,010,062.93 | \$912,324.37 | \$136,848.66 | \$5,442.66 | \$97,131.18 | \$2,693,850.12 | |

Note: Previously unreported bank fees have been back-filled with administrative funds.