



PEACE RIVER REGIONAL DISTRICT

Committee of the Whole Meeting Revised Agenda

April 15, 2021, 10:00 a.m.
1981 Alaska Avenue, Dawson Creek, BC

Pages

1. CALL TO ORDER
2. ADOPTION OF AGENDA
3. GALLERY COMMENTS OR QUESTIONS
4. DELEGATIONS
 - 4.1. Mickelson Consulting Inc. - PRRD Communications Audit Presentation 2
5. REPORTS
 - 5.1. 2020 Recycling Services Financial Recap - ENV-SWC-038 (referred from March 25, 2021 Board Meeting) 9
6. MEDIA QUESTIONS
7. ADJOURNMENT

PRRD Communications Audit Report

Presented by:

Therese Mickelson & Ted Townsend



Audit Methodology

Organizational Needs Assessment

Interviews with
department managers
and key support staff
(11 participants)

Interviews with
Board Chair and Vice
Chair

Review Strategic Plan

Policy/Procedure Review

Assessed 11 existing and draft
policies, procedures and
guidelines

Best Practices Comparison

Four local governments,
including regional districts and
municipalities

Department Structure Evaluation

Assessed roles,
reporting, capacity
and resources

Tactics Analysis

Assessed digital
and print tactics
for tone, message,
design and use of
technology

Communications Activities Review

Staff workshop and feedback forms

Audit Team

- Audit completed by Therese Mickelson, Ted Townsend and Sarah Talinas of Mickelson Consulting
- Team leads each have more than 30 years of experience in local government:
 - Lead communicators for two of BC's largest municipalities
 - Consultants and instructors
- Strategic graphic design: brand and logo development and campaigns



Summary of Key Themes

Solid foundation:

- Many good practices in place – internal & external
- Communications and engagement is a priority
- Embedded in Strategic Plan and budget
- Support for IAP2 principles/best practices
- Department staff support broadens team



Summary of Key Themes

Challenges:

- Large geographic area & limited internet
- Lack of understanding about PRRD role/programs/services
- Extensive community engagement in 2021
- Need consistent standards, policies, procedures and training
- Missing strategic messaging
- Website is key but needs updating



Summary of Key Themes

Opportunities:

- New communications team expertise
- Technology solutions for improved efficiency and quality
- Best practices – IAP2, branding, tactics
- Updated policies and procedures
- Improved coordination and role clarity
- Training – technology, communications skills, policies and procedures



Recommendations



External Communications

- Update the website
- Apply social media best practices:
 - Guide for dealing with inappropriate comments
 - Focus on Facebook and Twitter with more engaging content
 - Leverage industry stakeholders platforms
- Apply PRRD brand consistently
- Expand tactics and apply best practices
- Increase proactive media relations

Internal Communications

- Encourage increased use of WINK for news updates
- Make WINK the automatic default page for staff when they sign on to computer
- Encourage more questions/comments at all-staff meetings
- Set up central communications resource area on WINK



Community Engagement

- Create comprehensive calendar
- Coordinate collaboration across departments – bundle campaigns together
- Develop Community Engagement Plan with IAP2 principles and practices
- Apply strategic messaging
- Leverage Bang the Table application and provide training
- Communications has high-level oversight for communications contractors



Structure, Policies & Procedures

- Revise and expand Communications Policy
- Update Communications Manual/Procedures
- Update brand guidelines
- Implement software solutions
- Provide staff training
- Provide clarity on roles/responsibilities
- Schedule regular communications meetings and processes



Conclusion

Implementing recommendations

- Many of the recommendations can be achieved easily
- Work already underway – website upgrade, software investments, decentralized team coordination, strategic messaging
- Recommendations prioritized: key actions for 2021, others for future consideration



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REPORT

To: Solid Waste Committee

Report Number: ENV-SWC-038

From: Gerritt Lacey, Solid Waste Manager

Date: March 4, 2021

Subject: 2020 Recycling Services Financial Recap

RECOMMENDATION:

That the Solid Waste Committee receive the report titled "2020 Recycling Services Financial Recap – ENV – SWC - 038", which provides an update on the Peace River Regional District's Recycling programs for information.

BACKGROUND/RATIONALE:

The purpose of this report is to update the Solid Waste Committee (SWC) on the Peace River Regional District's (PRRD) Recycling programs through 2020.

The PRRD collects and markets recyclable material throughout the region by the use of two contracts:

1. Recycle BC
2. Regional Recycling Contract

Recycle BC

The service agreement with Multi-Material BC Society (MMBC), now Recycle BC (RBC), was entered into in November of 2013 for a 5-year term. This agreement was extended in 2018 for another 5 year term which ends in December of 2023. Through this agreement, material is collected at a series of manned depots. Once material is collected at the depots, the cost of transportation to market is born by RBC, with the PRRD receiving a market value based on fixed rates for each material type.

The table below shows the 12 sites that collect RBC material and the site type:

RBC Depots

Location of Service Area	Site Type
Buick Creek Transfer Station	Depot
Cecil Lake Transfer Station	Depot
Goodlow Transfer Station	Satellite
Kelly Lake Transfer Station	Satellite
Moberly Lake Transfer Station	Depot
Pink Mountain Transfer Station	Satellite
Prespatou Transfer Station	Depot
Rolla Transfer Station	Depot
Tumbler Ridge Recycling Depot	Depot
Tomslake Transfer Station	Depot
Upper Halfway Transfer Station	Depot
Wonowon Transfer Station	Depot

There are 7 streams of materials that are collected through the RBC program, these are:

- | | |
|------------------------|----------------------------|
| 1. Coloured Styrofoam | 5. Other Flexible Plastics |
| 2. White Styrofoam | 6. Plastic Film |
| 3. Paper and Cardboard | 7. Glass |
| 4. Mixed Containers | |

The costs associated for providing the recycling services for these 7 streams are broken out in three categories:

1. Collection - PRRD Staff time to move material from satellite sites to the depots.
2. Market Costs - Fixed rate per tonne, depending on material stream and collection method (Bailed vs loose).
3. Education Top Up - Fixed rate per household in the servicing area.

A breakdown of the costs for the RBC contract during 2020 is provided below:

2020 RBC Recycling Recap

	2020
Tonnage	94.7358
Collection	-\$6,585
Market Gain	\$16,514.77
Average Unit Rate	\$104.82/tonne
Education Top Up	\$32,194.92

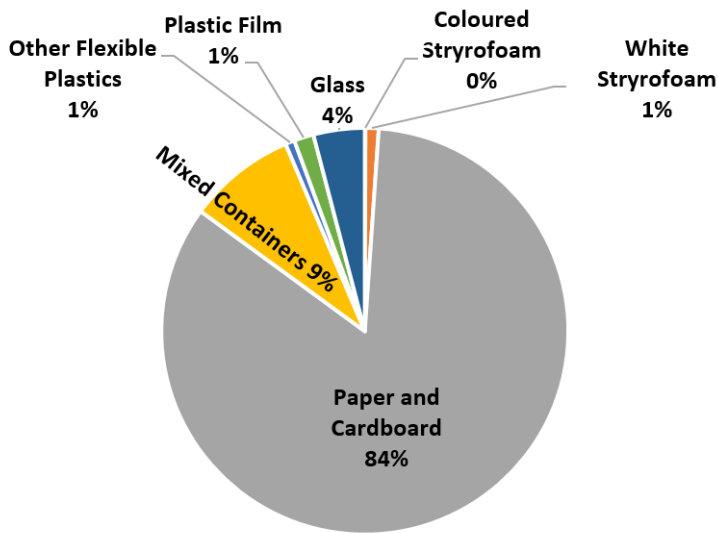
The collection costs the PRRD paid in 2020 are from two operational items:

1. Moving materials from the satellite sites to the closest depots. This was approximately \$1,905 in 2020.
2. Moving mega bags from the wooden coops to rig mats at the depots in preparation for collection. This was approximately \$4,680 in 2020.

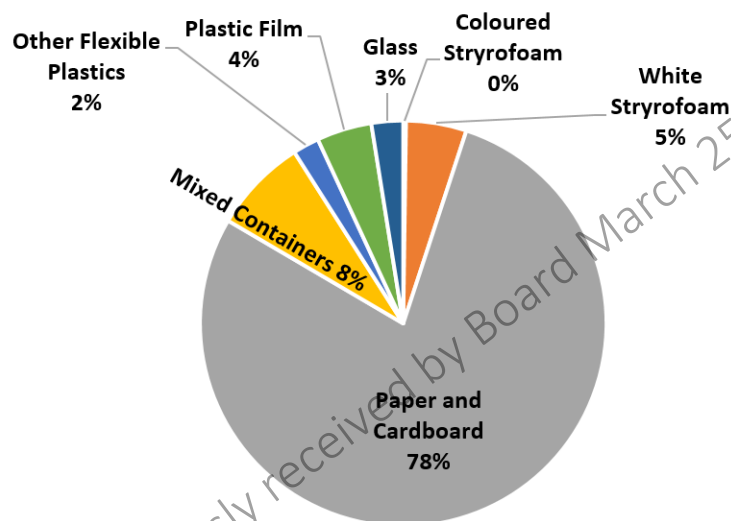
In the fall of 2020, 9 recycling sheds were added at the transfer station depots. These sheds eliminated the need for field services staff to move materials from the coops to the rig mats, saving the cost in future years.

The PRRD splits market gains with the District of Tumbler Ridge (DTR). The DTR operates the Tumbler Ridge depot with District staff. When the PRRD receives the market gain for materials coming from that site, the funds are transferred to the DTR. In 2020, the Tumbler Ridge depot contributed 66% of the total tonnage, and received \$10,276.81 in market gains.

Charts illustrating how each of the 7 streams contributed to tonnage and market gain for 2020 have been included below:



2020 Tonnage	94.7358 TN
Coloured Styrofoam	0.0456 TN
White Styrofoam	0.9934 TN
Paper and Cardboard	79.531 TN
Mixed Containers	8.1321 TN
Other Flexible Plastics	0.6933 TN
Plastic Film	1.4778 TN
Glass	3.8624 TN



Market Gain	\$16,514.77
Coloured Styrofoam	\$36.70
White Styrofoam	\$794.70
Paper and Cardboard	\$12,951.06
Mixed Containers	\$1,245.50
Other Flexible Plastics	\$346.63
Plastic Film	\$723.88
Glass	\$416.30

RBC is a steward for an Extended Producer Responsibility (EPR) Program that manages Packaging and Printed Paper (PPP). The intension of EPR programs is that the cost of materials to their end of life is the responsibility of the manufacturer. These manufacturers put funds into a program which is run by a steward entity (in this case, RBC). When utilized properly, an EPR program should bear 100% of the cost of handling the material which they are responsible for.

Regional Recycling Contract

The contract was awarded to Recycle-It Resource Recovery (R3) on August 4, 2016. This is a five-year contract, which runs from March 1, 2017 until February 28, 2022. This contract handles recyclable materials that are not being collected through stewardship programs, such as Recycle BC. The material is collected at a series of manned and unmanned depots across the PRRD.

The table below outlines the number of depots and their service areas throughout the region:

R3 Depot Service Areas

Location of Service Area	Minimum Number of Depots
Bessborough Landfill	1
Charlie Lake	1
Chetwynd	2
Dawson Creek	5
Fort St. John	5
Hudson's Hope	1
Mile 62.5	1
Pouce Coupe	1
Taylor	1

Along with the depots that being serviced, R3 also handles the municipal commingled curbside material collected in Dawson Creek, Fort St. John, Pouce Coupe, and Tumbler Ridge.

There are 8 streams of materials that R3 collects, which are:

- | | |
|-----------------------------------|------------------------|
| 1. Commingled Curbside | 5. Hard Plastics (HPL) |
| 2. Mixed Waste Paper (MWP) | 6. Metal (MTL) |
| 3. Shredded Office Paper (SOP) | 7. Styrofoam (SYF) |
| 4. Old Corrugated Cardboard (OCC) | 8. Glass (GLS) |

The costs associated for providing the recycling services for these 8 streams are broken out in two categories:

1. Collection and Processing - Fixed Rate (\$/Tonne) applied to each stream.
2. Market Costs - Variable cost for each stream that can change daily, it includes transportation to markets and market value. These Costs are viewed as either a Market Loss¹ or a Market Gain² and are invoiced monthly.

Through the Contract with R3, market costs are handled in 3 ways:

Material	Market Loss	Market Gain
Commingled Curbside	100% payable by PRRD	100% paid to PRRD
Mixed Waste Paper	50% payable by PRRD 50% payable by R3	100% paid to PRRD
Remaining 6 Streams* (SOP,OCC,HPL,MTL,SYF,GLS)	100% payable by R3	100% paid to PRRD

¹ Market Loss: When the sum of all costs to take the material to market nets as a negative value in the invoicing month.

² Market Gain: When the sum of all costs to take the material to market nets as a positive value in the invoicing month.

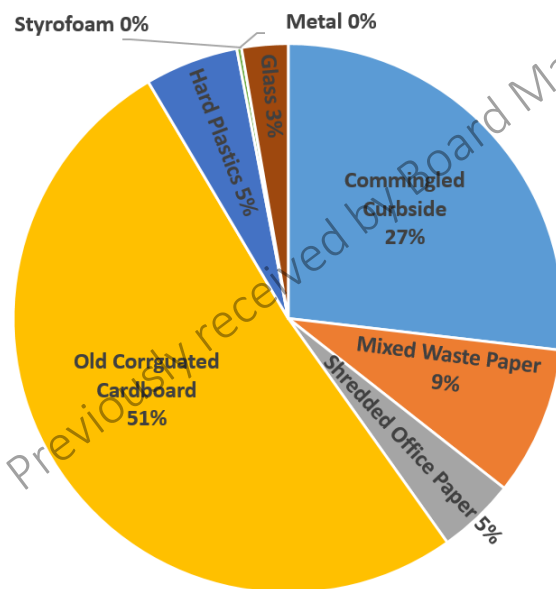
*The market loss/gain is determined by adding all six streams in the invoicing month, rather than handling as individual streams per month.

In 2020, \$2,103,147 was budgeted for the Recycling Services Contract (RSC). A breakdown of the total tonnages and costs for 2020 vs 2019 has been provided below:

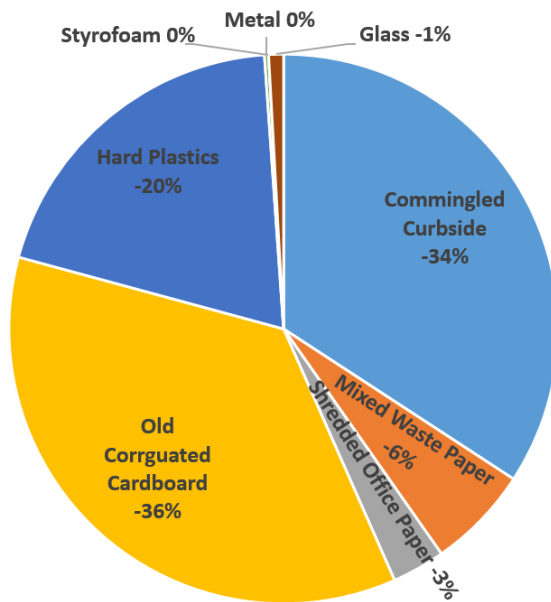
2020 RSC Recap

Total Recycling Costs		2019	2020	% Change
Unit Rate	Total Tonnage	4527.54	4328.46	-4%
	Collection/Processing Rate	-\$380.45	-\$375.87	-1%
	Market Rate	-\$55.34	-\$33.06	40%
	Average Unit Rate (\$/tonne)	-\$435.78	-\$408.93	-6%
Stream Cost	Collection/Processing Cost	-\$1,722,485.69	-\$1,626,956.56	-6%
	PRRD Market Gain	\$2,281.98	\$64,917.82	2745%
	PRRD Market Loss	-\$252,821.65	-\$208,013.87	-18%
	Total PRRD Cost	-\$1,973,025.36	-\$1,770,052.61	-10%

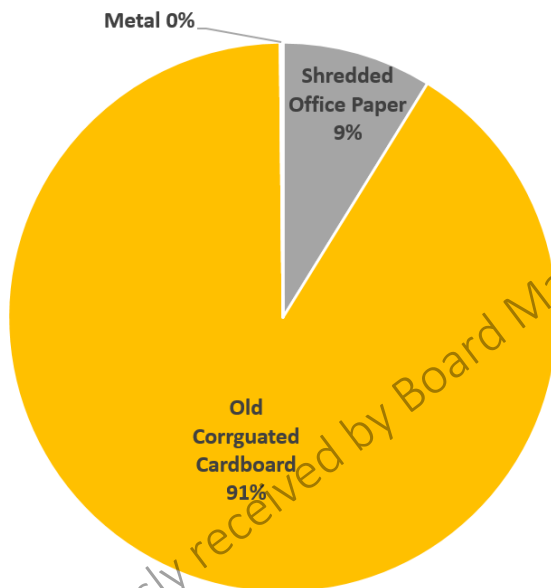
Charts illustrating how each of the 8 streams contributed to tonnage, collection/processing, market gain, market loss, and total costs for the 2020 RSC have been included below:



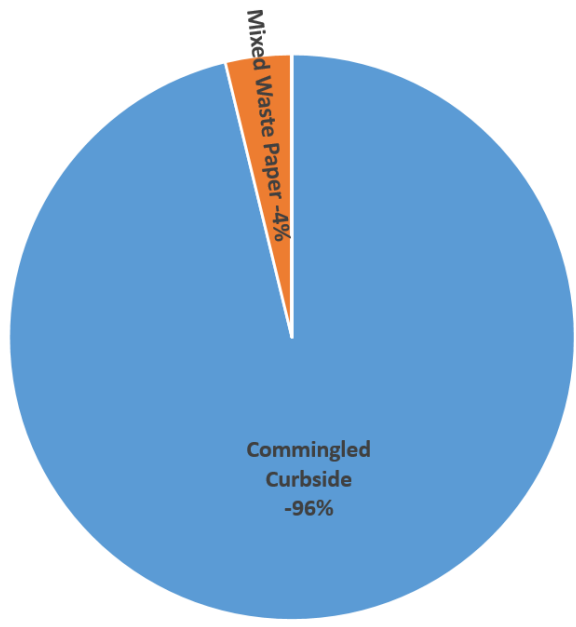
2020 Tonnage	4,528.5 TN
Commingled	1,162.2 TN
Mixed Waste Paper	379.1 TN
Shredded Office Paper	198.0 TN
Old Corrugated Cardboard	2,221.4 TN
Hard Plastics	237.9 TN
Metal	12.1 TN
Styrofoam	0.0 TN
Glass	117.8 TN

**Collection/Processing** **-\$1,626,956.56**

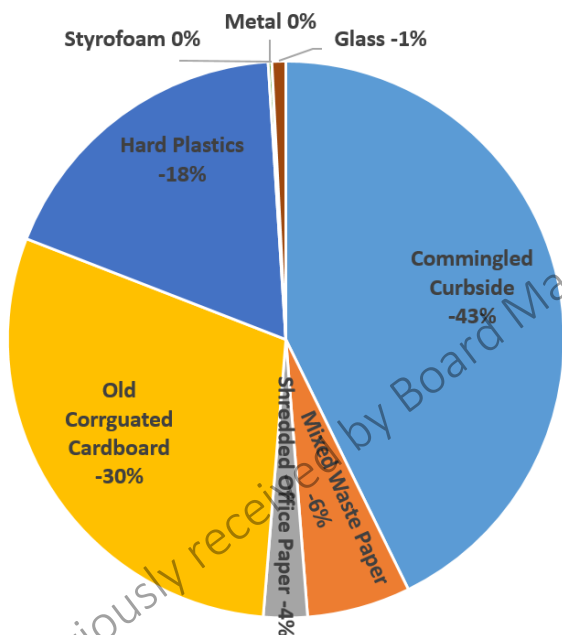
Commingled	-\$556,443.66
Mixed Waste Paper	-\$98,468.27
Shredded Office Paper	-\$50,871.54
Old Corrugated Cardboard	-\$582,912.94
Hard Plastics	-\$320,118.99
Metal	-\$3,928.38
Styrofoam	\$0
Glass	-\$14,212.78

**Market Gain** **\$64,917.82**

Commingled	\$0
Mixed Waste Paper	\$0
Shredded Office Paper	\$5,716.29
Old Corrugated Cardboard	\$59,094.78
Hard Plastics	\$0
Metal	\$106.75
Styrofoam	\$0
Glass	\$0

**Market Loss - \$208,013.87**

Commingled	-\$200,129.69
Mixed Waste Paper	-\$7,884.18
Shredded Office Paper	\$0
Old Corrugated Cardboard	\$0
Hard Plastics	\$0
Metal	\$0
Styrofoam	\$0
Glass	\$0

**Total Cost - \$1,770,052.61**

Commingled	-\$756,573.35
Mixed Waste Paper	-\$106,352.45
Shredded Office Paper	-\$45,155.25
Old Corrugated Cardboard	-\$523,818.16
Hard Plastics	-\$320,118.99
Metal	-\$3,821.62
Styrofoam	\$0
Glass	-\$14,212.78

Attachment 1 provides a detailed breakdown of the individual streams comparing 2020 and 2019 costs and market values.

ALTERNATIVE OPTIONS:

1. That the Solid Waste Committee provide further direction.

STRATEGIC PLAN RELEVANCE:

- ☒ Not Applicable to Strategic Plan.

FINANCIAL CONSIDERATION(S):

In 2020 the material handled through the RBC program provided the PRRD with a net loss of -\$347.04 or -\$10.50/tonne, when the tonnage and market gain of Tumbler Ridge is removed from the total program. This loss is attributed to extra field service time needed through the transition into recycling sheds.

In 2020 the material handled through the RSC program provided the PRRD with a net loss of -\$1,770,052.61 or -\$408.93/tonne. This can be attributed to the PRRD funding 100% of collection/processing, transportation to market, and uncertain markets.

COMMUNICATIONS CONSIDERATION(S):

None at this time.

OTHER CONSIDERATION(S):

None at this time.

Attachments:

1. RCS 2020 vs 2019 Stream Summaries

2020 Recyclable Stream Data

Total Recycling Costs		2019	2020	% Change
Unit Rate	Total Tonnage	4527.54	4328.46	-4.4%
	Collection/Processing Rate	-\$380.45	-\$375.87	-1.2%
	Market Rate	-\$55.34	-\$33.06	40.3%
	Average Unit Rate (\$/tonne)	-\$435.78	-\$408.93	-6.2%
Stream Cost	Collection/Processing Cost	-\$1,722,485.69	-\$1,626,956.56	-5.5%
	PRRD Market Gain	\$2,281.98	\$64,917.82	2744.8%
	PRRD Market Loss	-\$252,821.65	-\$208,013.87	-17.7%
	Total PRRD Cost	-\$1,973,025.36	-\$1,770,052.61	-10.3%

Remaining 6 Streams		2019	2020	% Change
Unit Rate	Total Tonnage	2762.88	2787.13	0.9%
	Collection/Processing Rate	-\$373.14	-\$348.76	-6.5%
	Market Rate	\$0.83	\$23.29	2720.0%
	Average Unit Rate (\$/tonne)	-\$372.32	-\$325.47	-12.6%
Stream Cost	Collection/Processing Cost	-\$1,030,948.64	-\$972,044.63	-5.7%
	PRRD Market Gain (100%)	\$2,281.98	\$64,917.82	2744.8%
	PRRD Market Loss (0%)	\$0.00	\$0.00	-
	Total PRRD Cost	-\$1,028,666.66	-\$907,126.81	-11.8%
Market Data	Total Market Value	-\$53,505.54	\$56,434.73	205.5%
	Market Gain	\$20,377.30	\$99,974.58	390.6%
	Market Loss	-\$73,882.84	-\$43,539.85	-41.1%
	Average Market Rate	-\$19.37	\$20.25	204.6%

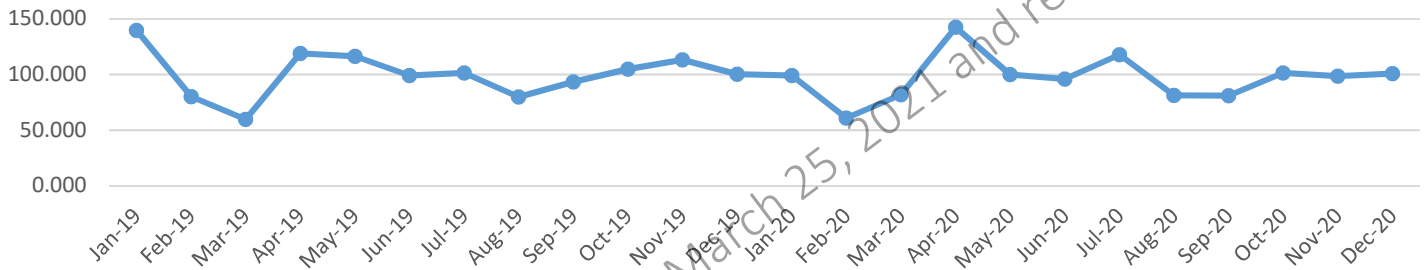
Commingled Curbside		2019	2020	% Change
Unit Rate	Total Tonnage	1207.60	1162.23	-3.8%
	Collection/Processing Rate	-\$458.92	-\$478.77	4.3%
	Market Rate	-\$189.22	-\$172.19	9.0%
	Average Unit Rate (\$/tonne)	-\$648.14	-\$650.97	0.4%
Stream Cost	Collection/Processing Cost	-\$554,193.17	-\$556,443.66	0.4%
	PRRD Market Gain (100%)	\$0.00	\$0.00	-
	PRRD Market Loss (100%)	-\$228,498.11	-\$200,129.69	-12.4%
	Total PRRD Cost	-\$782,691.28	-\$756,573.35	-3.3%

Mixed Waste Paper		2019	2020	% Change
Unit Rate	Total Tonnage	557.06	379.10	-31.9%
	Collection/Processing Rate	-\$246.55	-\$259.74	5.4%
	Market Rate	-\$43.66	-\$20.80	52.4%
	Average Unit Rate (\$/tonne)	-\$290.21	-\$280.54	-3.3%
Stream Cost	Collection/Processing Cost	-\$137,343.88	-\$98,468.27	-28.3%
	PRRD Market Gain (100%)	\$0.00	\$0.00	-
	PRRD Market Loss (50%)	-\$24,323.54	-\$7,884.18	-67.6%
	Total PRRD Cost	-\$161,667.42	-\$106,352.45	-34.2%

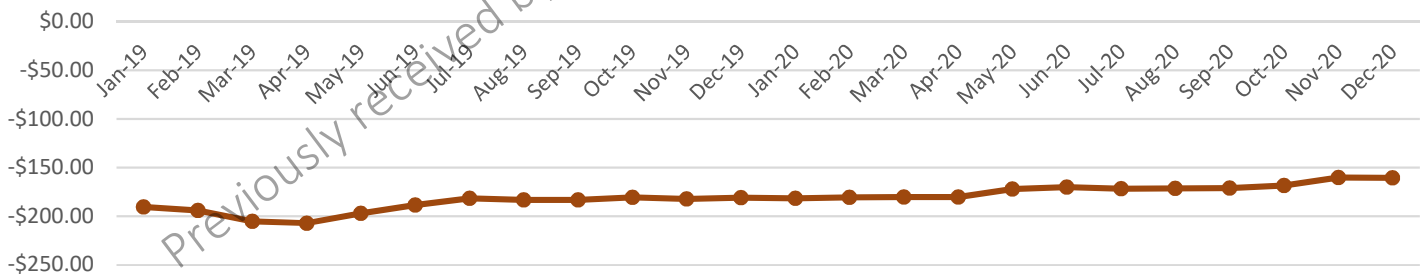
2020 Recyclable Stream Data

Commingled Curbside		2019	2020	% Change
Unit Rate	Total Tonnage	1207.60	1162.23	-3.8%
	Collection/Processing Rate	-\$458.92	-\$478.77	4.3%
	Market Rate	-\$189.22	-\$172.28	8.9%
	Average Unit Rate (\$/tonne)	-\$648.14	-\$650.97	0.4%
Stream Cost	Collection/Processing Cost	-\$554,193.17	-\$556,443.66	0.4%
	Market Cost (100% Gain 100% Loss)	-\$228,498.11	-\$200,129.69	-12.4%
	Total PRRD Cost	-\$782,691.28	-\$756,573.35	-3.3%
Market Data	Total Market Value	-\$228,498.11	-\$200,129.69	-12.4%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$228,498.11	-\$200,129.69	-12.4%
	Average Market Value/month	-\$19,041.51	-\$16,677.47	-12.4%
	Highest Market Rate (\$/tonne)	-\$180.57	-\$160.08	-11.3%
	Lowest Market Rate (\$/tonne)	-\$206.99	-\$181.55	-12.3%

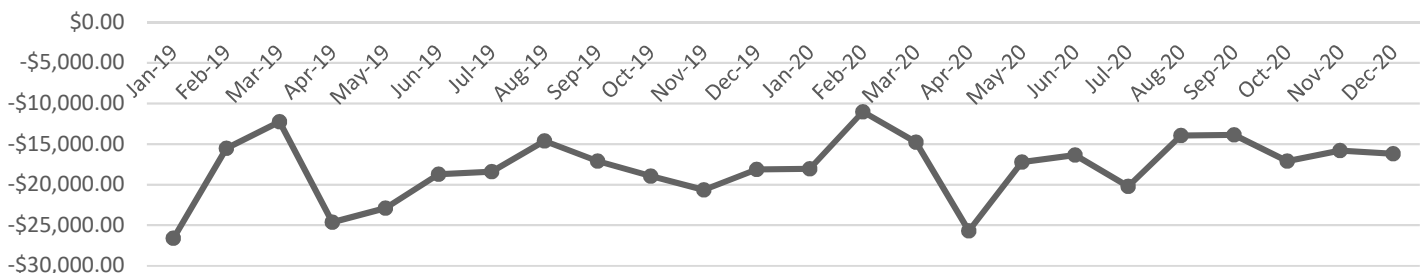
Commingled Curbside Tonnage



Commingled Curbside Net Rate Paid/MT



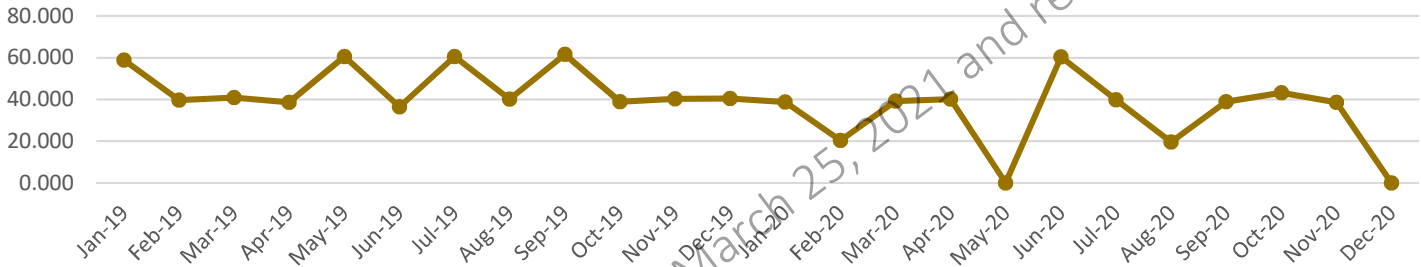
Commingled Curbside Net Cost / Revenue



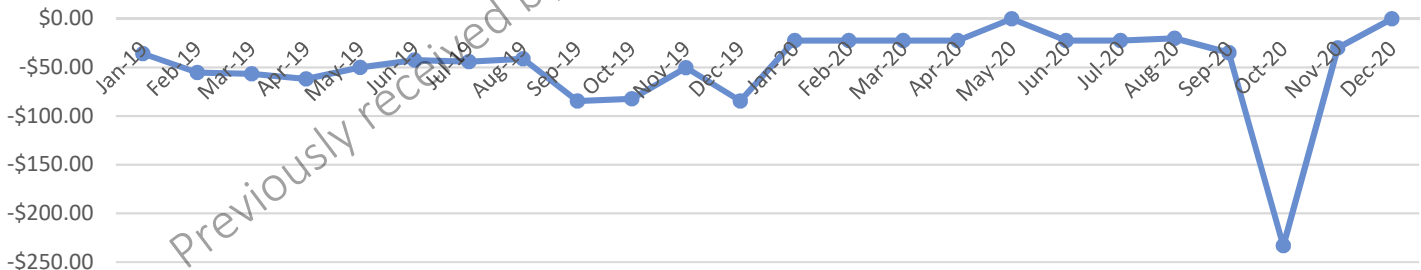
2020 Recyclable Stream Data

Mixed Waste Paper		2019	2020	% Change
Unit Rate	Total Tonnage	557.06	379.10	-31.9%
	Collection/Processing Rate	-\$246.55	-\$259.74	5.4%
	Market Rate	-\$43.66	-\$20.80	52.4%
	Average Unit Rate (\$/Tonne)	-\$290.21	-\$280.54	-3.3%
Stream Cost	Collection/Processing Cost	-\$137,343.88	-\$98,468.27	-28.3%
	Market Cost (100% Gain 50% Loss)	-\$24,323.54	-\$7,884.18	-67.6%
	Total PRRD Cost	-\$161,667.42	-\$106,352.45	-34.2%
Market Data	Total Market Value	-\$48,647.17	-\$15,768.36	-67.6%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$48,647.07	-\$15,768.36	-67.6%
	Average Market Value/month	-\$4,053.93	-\$1,576.84	-61.1%
	Highest Market Rate (\$/tonne)	-\$35.77	-\$20.00	-44.1%
	Lowest Market Rate (\$/tonne)	-\$84.67	-\$233.09	175.3%

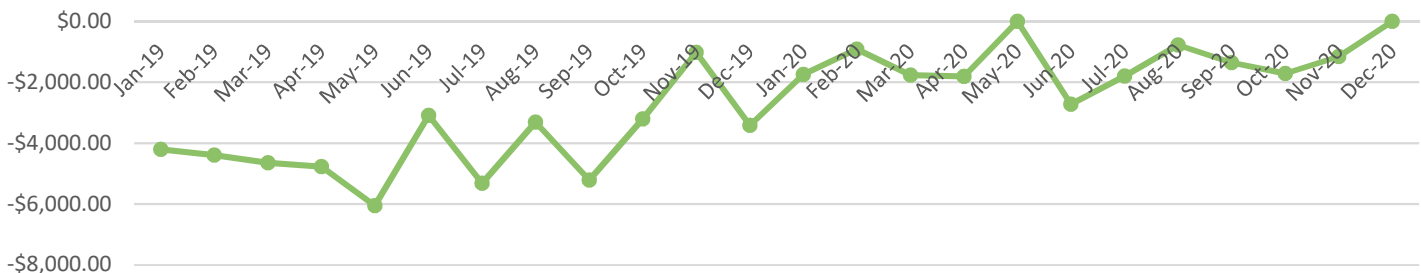
Mixed Waste Paper Tonnage



Mixed Waste Paper Net Rate Paid/MT



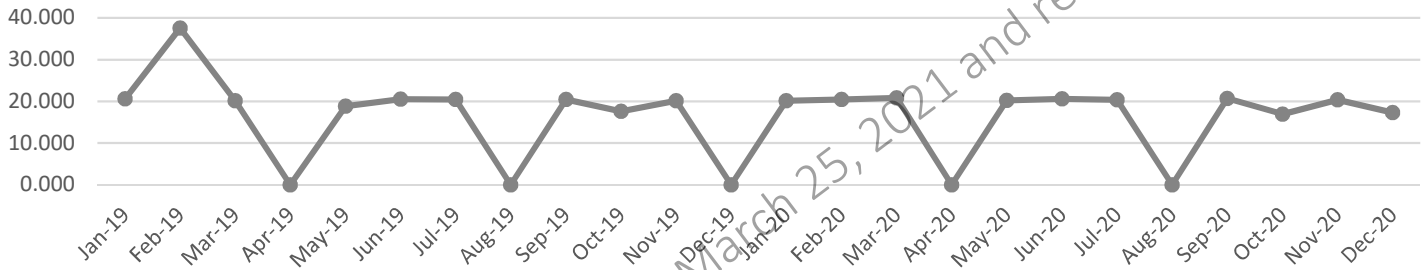
Mixed Waste Paper Net Cost / Revenue



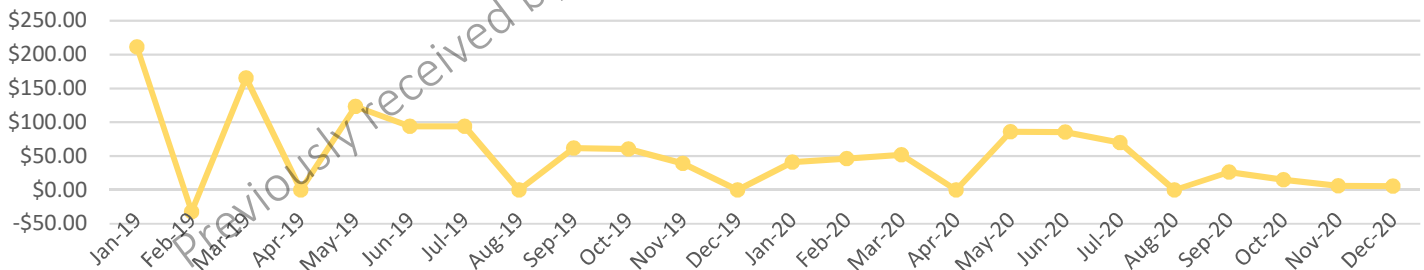
2020 Recyclable Stream Data

Shredded Office Paper		2019	2020	% Change
Unit Rate	Total Tonnage	196.29	197.97	0.9%
	Collection/Processing Rate	-\$246.55	-\$256.97	4.2%
	Market Rate	Grouped	Grouped	-
	Average Unit Rate (\$/tonne)	-\$237.32	-\$228.09	-3.9%
Stream Cost	Collection/Processing Cost	-\$48,395.79	-\$50,871.54	5.1%
	PRRD Market Cost	\$1,811.89	\$5,716.29	215.5%
	Total PRRD Cost	-\$46,583.91	-\$45,155.25	-3.1%
Market Data	Total Market Value	\$15,777.88	\$8,803.18	-44.2%
	Market Gain	\$16,977.88	\$8,803.18	-48.1%
	Market Loss	-\$1,200.00	\$0.00	-100.0%
	Average Market Value	\$1,753.10	\$880.32	-49.8%
	Average Market Rate	\$90.89	\$43.37	-52.3%
	Highest Market Rate (\$/tonne)	\$211.39	\$86.06	-59.3%
	Lowest Market Rate (\$/tonne)	-\$31.94	\$5.48	-117.2%

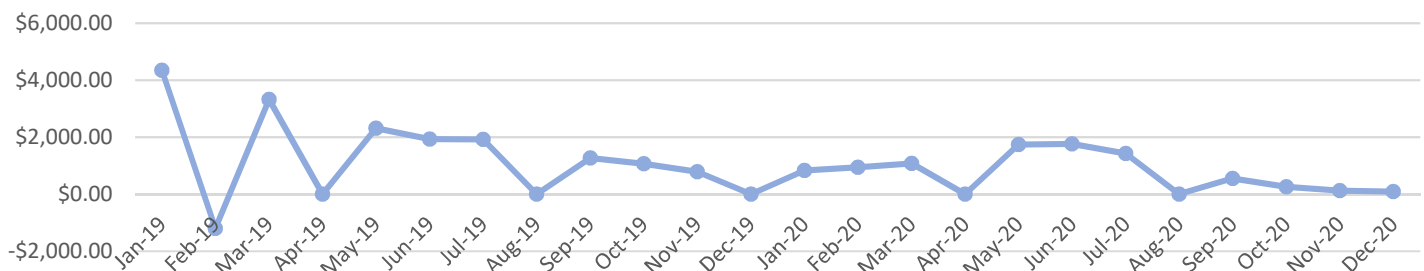
Shredded Office Paper Tonnage



Shredded Office Paper Net Rate Paid/MT



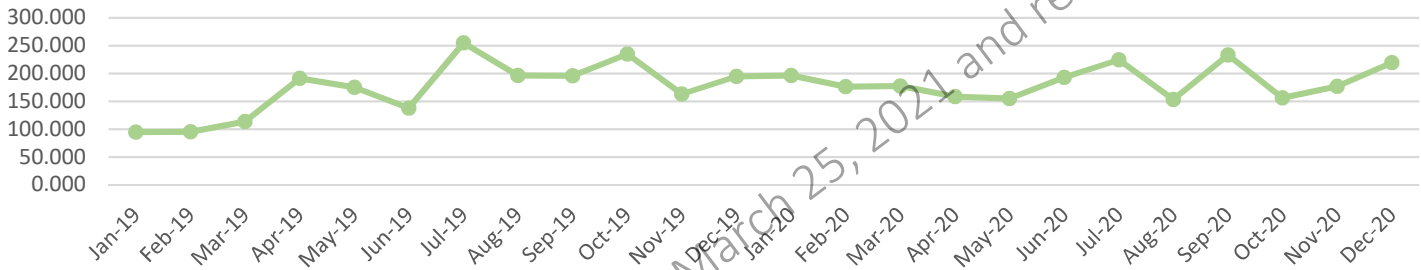
Shredded Office Paper Net Cost / Revenue



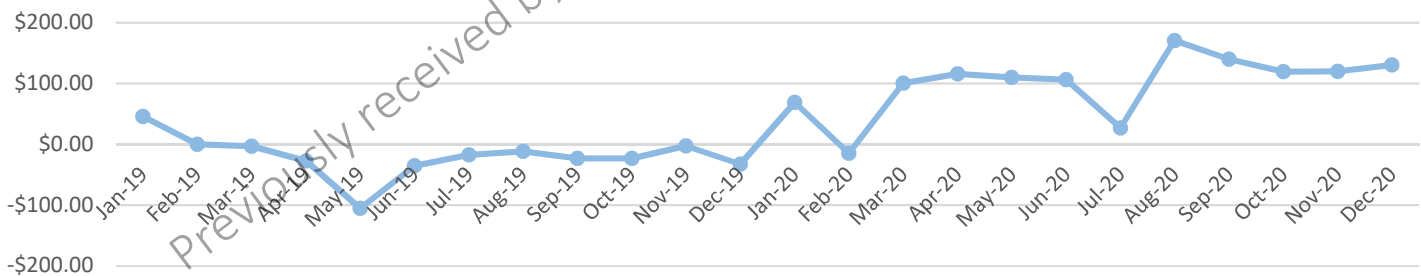
2020 Recyclable Stream Data

Old Corrugated Cardboard		2019	2020	% Change
Unit Rate	Total Tonnage	2048.32	2221.36	8.4%
	Collection/Processing Rate	-\$249.48	-\$262.41	5.2%
	Market Rate	Grouped	Grouped	-
	Average Unit Rate (\$/tonne)	-\$249.25	-\$235.81	-5.4%
Stream Cost	Collection/Processing Cost	-\$511,014.05	-\$582,912.94	14.1%
	PRRD Market Cost	\$470.10	\$59,094.78	12470.8%
	Total PRRD Cost	-\$510,543.95	-\$523,818.16	2.6%
Market Data	Total Market Value	-\$18,362.99	\$85,084.98	563.4%
	Market Gain	\$3,218.56	\$91,007.00	2727.6%
	Market Loss	-\$21,581.55	-\$5,922.02	-72.6%
	Average Market Value	-\$1,530.25	\$7,090.42	563.4%
	Average Market Rate	-\$8.96	\$99.49	1209.7%
	Highest Market Rate (\$/tonne)	\$45.86	\$170.60	272.0%
	Lowest Market Rate (\$/tonne)	-\$105.20	-\$14.84	85.9%

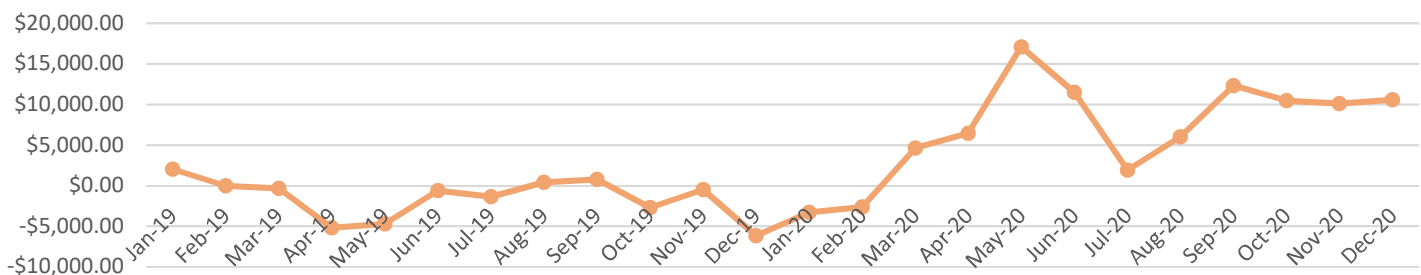
Old Corrugated Cardboard Tonnage



Old Corrugated Cardboard Net Rate Paid/MT



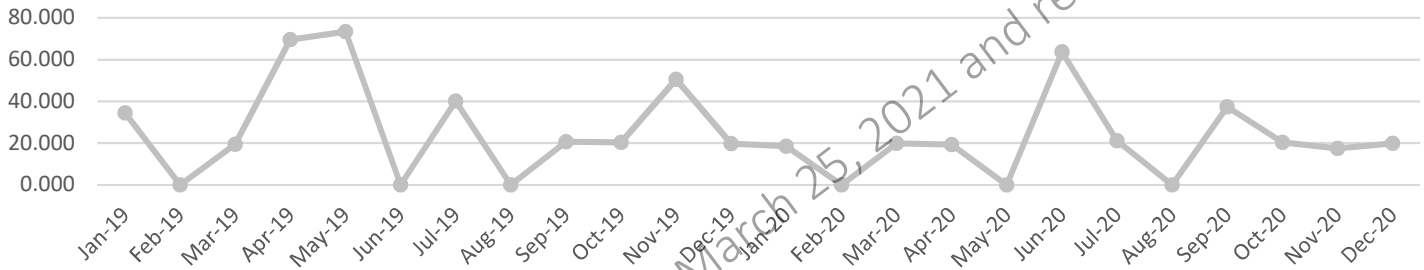
Old Corrugated Cardboard Net Cost / Revenue



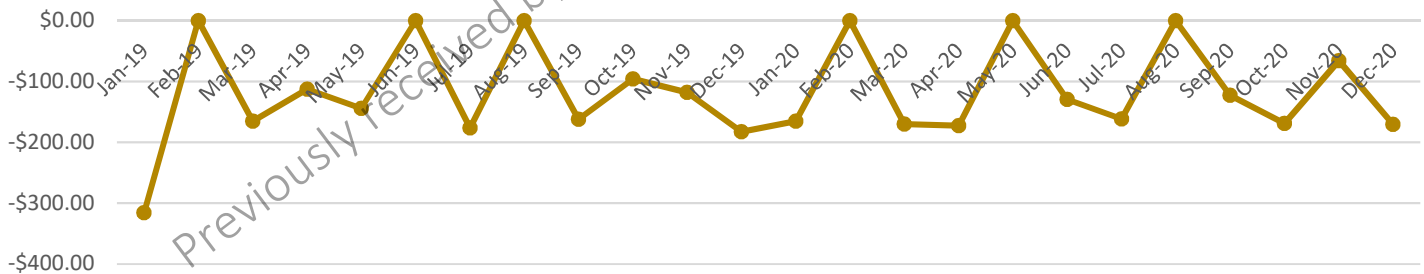
2020 Recyclable Stream Data

Hard Plastics (INJ -7)		2019	2020	% Change
Unit Rate	Total Tonnage	348.36	237.88	-31.7%
	Collection/Processing Rate	-\$1,294.21	-\$1,345.70	4.0%
	Market Rate	Grouped	Grouped	-
	Average Unit Rate (\$/tonne)	-\$1,294.21	-\$1,345.70	4.0%
Stream Cost	Collection/Processing Cost	-\$450,854.88	-\$320,118.99	-29.0%
	PRRD Market Cost	\$0.00	\$0.00	-
	Total PRRD Cost	-\$450,854.88	-\$320,118.99	-29.0%
Market Data	Total Market Value	-\$45,794.10	-\$34,017.83	25.7%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$45,794.10	-\$34,017.83	25.7%
	Average Market Value	-\$5,088.23	-\$3,401.78	33.1%
	Average Market Rate	-\$131.46	-\$147.36	-12.1%
	Highest Market Rate (\$/tonne)	-\$95.78	-\$65.67	31.4%
	Lowest Market Rate (\$/tonne)	-\$315.94	-\$172.73	45.3%

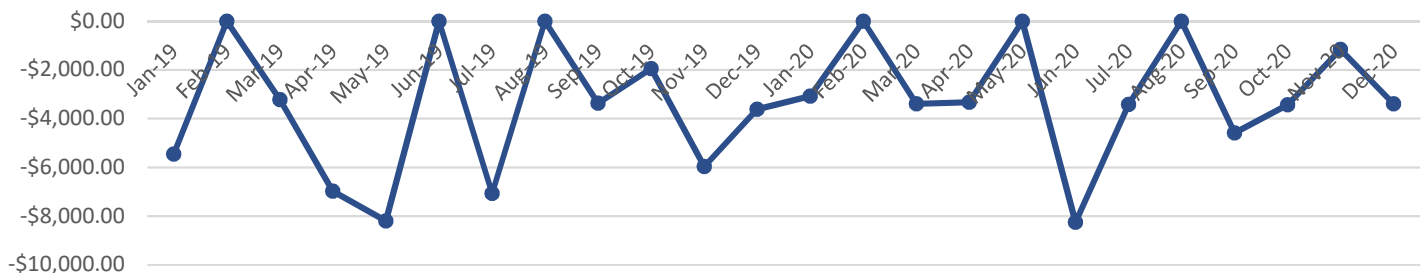
Hard Plastics (INJ 1-7) Tonnage



Hard Plastics (INJ 1-7) Net Rate Paid/MT



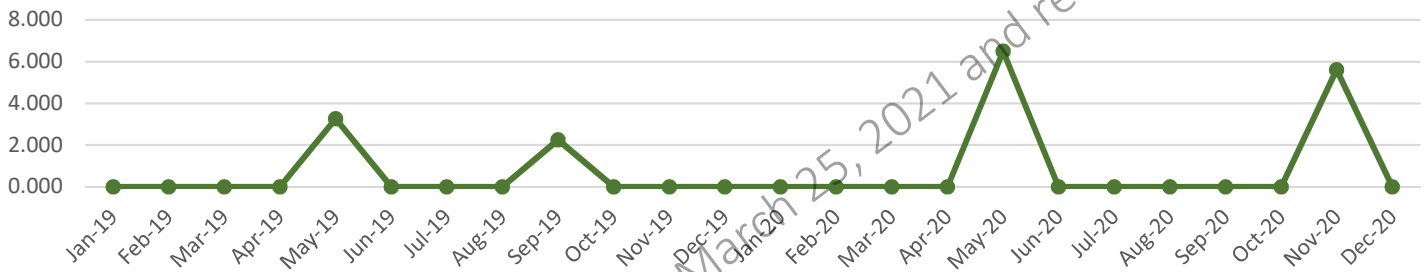
Hard Plastics (INJ 1-7) Net Cost / Revenue



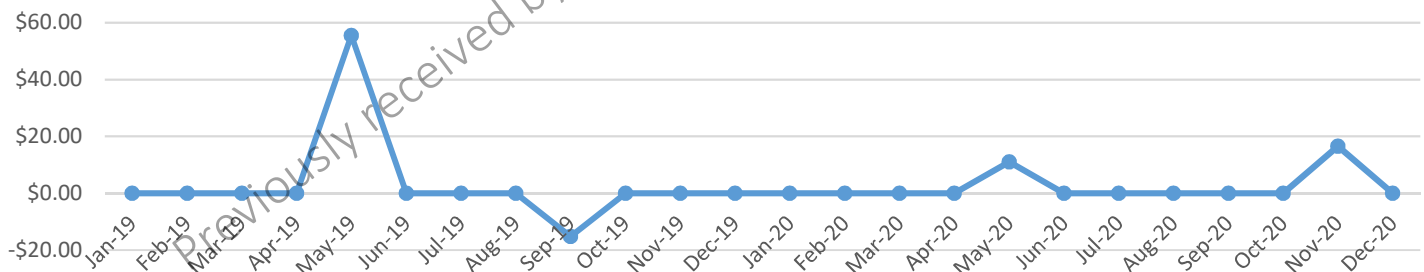
2020 Recyclable Stream Data

Metal (Tin)		2019	2020	% Change
Unit Rate	Total Tonnage	5.51	12.11	119.9%
	Collection/Processing Rate	-\$310.31	-\$324.39	4.5%
	Market Rate	Grouped	Grouped	-
	Average Unit Rate (\$/tonne)	-\$310.31	-\$315.58	1.7%
Stream Cost	Collection/Processing Cost	-\$1,708.88	-\$3,928.38	129.9%
	PRRD Market Cost	\$0.00	\$106.75	100.0%
	Total PRRD Cost	-\$1,708.88	-\$3,821.62	123.6%
Market Data	Total Market Value	\$146.77	\$164.40	12.0%
	Market Gain	\$180.86	\$164.40	-9.1%
	Market Loss	-\$34.09	\$0.00	-100.0%
	Average Market Value	\$73.39	\$82.20	12.0%
	Average Market Rate	\$26.65	\$13.78	-48.3%
	Highest Market Rate (\$/tonne)	\$55.51	\$16.54	-70.2%
	Lowest Market Rate (\$/tonne)	-\$15.16	\$11.02	172.7%

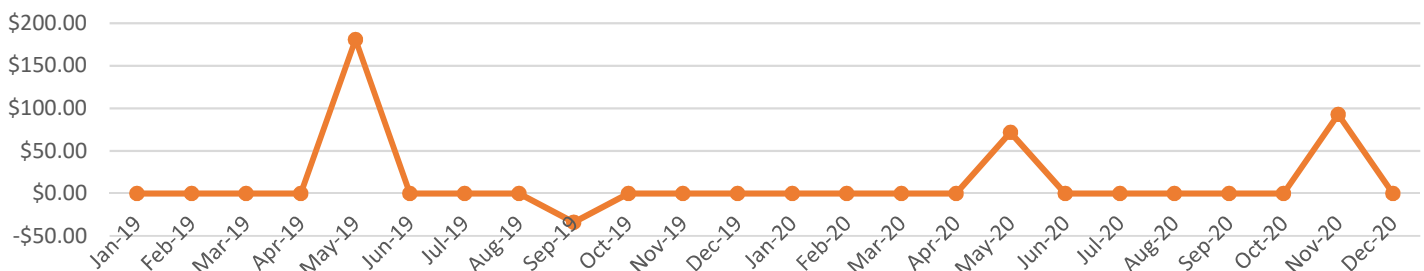
Metal (Tin) Tonnage



Metal (Tin) Net Rate Paid/MT



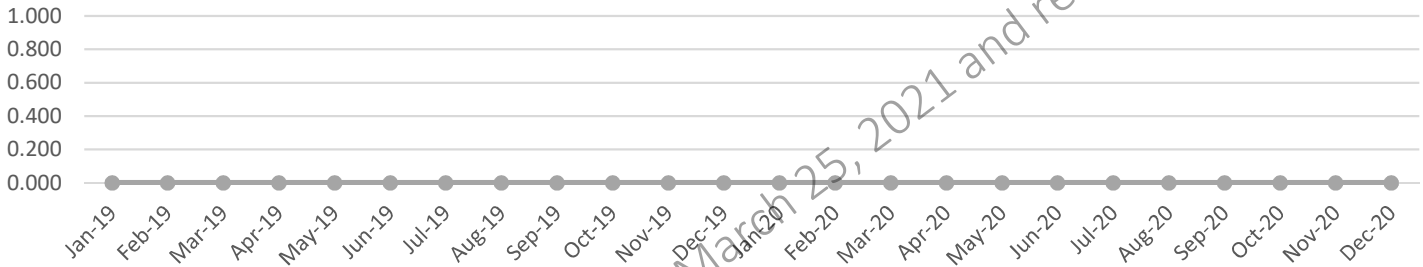
Metal (Tin) Net Cost / Revenue



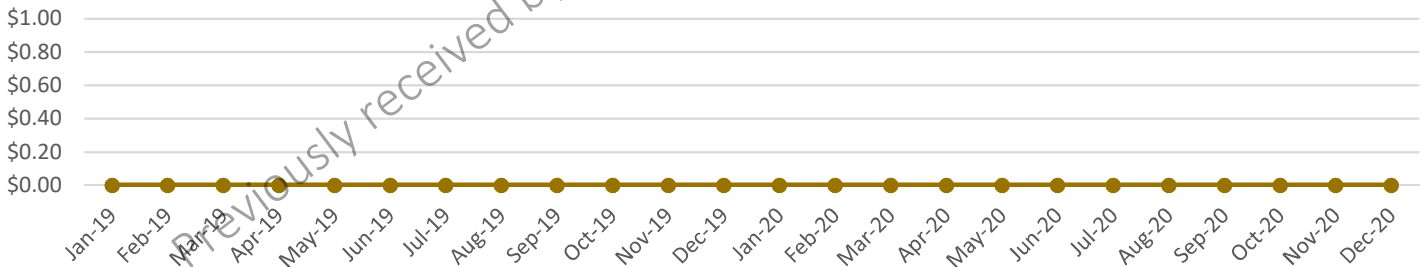
2020 Recyclable Stream Data

Styrofoam		2019	2020	% Change
Unit Rate	Total Tonnage	0.00	0.00	N/A
	Collection/Processing Rate	-\$1,294.21	0	N/A
	Market Rate	Grouped	Grouped	N/A
	Average Unit Rate (\$/tonne)	#DIV/0!	#DIV/0!	N/A
Stream Cost	Collection/Processing Cost	\$0.00	\$0.00	N/A
	PRRD Market Cost	\$0.00	\$0.00	N/A
	Total PRRD Cost	\$0.00	\$0.00	N/A
Market Data	Total Market Value	\$0.00	\$0.00	N/A
	Market Gain	\$0.00	\$0.00	N/A
	Market Loss	\$0.00	\$0.00	N/A
	Average Market Value	\$0.00	\$0.00	N/A
	Average Market Rate	\$0.00	\$0.00	N/A
	Highest Market Rate (\$/tonne)	\$0.00	\$0.00	N/A
	Lowest Market Rate (\$/tonne)	\$0.00	\$0.00	N/A

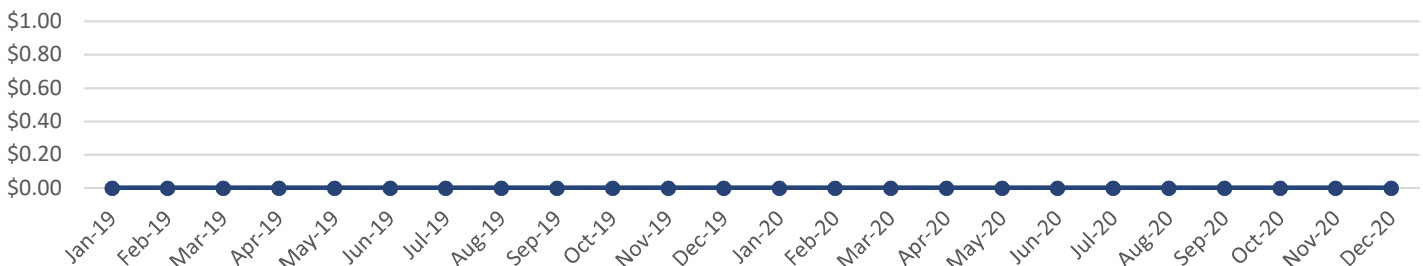
Styrofoam Tonnage



Styrofoam Net Rate Paid/MT



Styrofoam Net Cost / Revenue



2020 Recyclable Stream Data

Glass		2019	2020	% Change
Unit Rate	Total Tonnage	164.40	117.81	-28.3%
	Collection/Processing Rate	-\$115.42	-\$120.64	4.5%
	Market Rate	Grouped	Grouped	-
	Average Unit Rate (\$/tonne)	-\$115.42	-\$120.64	4.5%
Stream Cost	Collection/Processing Cost	-\$18,975.05	-\$14,212.78	-25.1%
	PRRD Market Cost	\$0.00	\$0.00	-
	Total PRRD Cost	-\$18,975.05	-\$14,212.78	-25.1%
Market Data	Total Market Value	-\$5,273.10	-\$3,600.00	31.7%
	Market Gain	\$0.00	\$0.00	-
	Market Loss	-\$5,273.10	-\$3,600.00	31.7%
	Average Market Value	-\$1,054.62	-\$1,200.00	-13.8%
	Average Market Rate	-\$32.07	-\$30.62	4.5%
	Highest Market Rate (\$/tonne)	-\$30.00	-\$29.01	-3.3%
	Lowest Market Rate (\$/tonne)	-\$32.88	-\$32.48	-1.2%

