



# REPORT

To: Solid Waste Committee

Report Number: ENV-SWC-101

From: Gerritt Lacey, Solid Waste Manager

Date: July 7, 2022

**Subject: 24 Hour Access Manned Transfer Station Pilot Fourth Quarter Update**

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## **RECOMMENDATION #1:**

That the Solid Waste Committee receive the report titled "24 Hour Access Manned Transfer Station Pilot Fourth Quarter Update - ENV-SWC-101", which provides the fourth quarter update for the pilot program conducted at the Moberly Lake and Prespatou Transfer Stations to accept bagged household waste 24 hours per day; further, that the report be shared with the Regional Board via the Consent Calendar.

## **RECOMMENDATION #2:**

That the Solid Waste Committee recommend that the Regional Board permanently adopt a 24 hour access for no-charge afterhours disposal of bagged household waste at the Moberly Lake and Prespatou transfer stations.

## **RECOMMENDATION #3:**

That the Solid Waste Committee recommend that the Regional Board initiate a new 24 hour access pilot for no-charge afterhours disposal of bagged waste outside of operating hours at the Rolla and Cecil Lake Transfer Stations.

## **BACKGROUND/RATIONALE:**

On June 24, 2021, the Regional Board passed the following resolution:

*MOVED, SECONDED, and CARRIED*

*That the Regional Board approve a 12 month pilot program beginning in July of 2021 at the manned transfer stations located in Moberly Lake and Prespatou, which allows residents to dispose of household bagged waste outside of operating hours, free of charge; further that the Solid Waste Committee receive a quarterly update on the pilot program.*

The 24 hour access pilots at the Moberly Lake Transfer Station (MLTS) and the Prespatou Transfer Station (PPTS) started on July 1, 2021. The pilot allows residents to deposit bagged household waste outside of regular operating hours and has been in operation for nine months. The data presented for the MLTS and the PPTS are different between the two sites, with the methods fully explained in the external link titled "June 3, 2021 Solid Waste Committee Meeting" below.

*Moberly Lake Transfer Station:*

Table 1 below outlines the bag counts received and any illegally dumped incidents during the first three quarters quarter of the pilot (Q1- Q4).

*Table 1. Moberly Lake Transfer Station Afterhours Pilot Tracking*

Pilot Year July 2021 to June 2022	Q1 July - Sept 2021	Q2 Oct-Dec 2021	Q3 Jan - Mar 2022	Q4 April – June 2022	TOTAL
# of BHW Transactions During Operational Hours	456	418	302	252	<b>1,176</b>
Tonnage of Compactor	35.65TN	29.48TN	24.66TN	17.92TN	<b>107.71TN</b>
Bags of Waste Disposed During Operational Hours	6,243	6,029	4,612	4510	<b>21,394</b>
Bags of Waste Disposed of After Hours	683	530	520	546	<b>2,279</b>
Illegal Dumping Incidents	5	1	0	0	<b>6</b>

\*BHW = Bagged Household Waste

As shown, the number of bags brought in both during and after operating hours has declined every quarter since the start of the pilot; this same trend is present in the baseline data for pre-pilot quantities, shown below in Table 2. For Q4 of the pilot, bagged waste received after hours made up 11% of the total bags received in the quarter. In Q4, zero illegal dumping incidents were reported.

Table 2 provides the baseline information of the number of transactions and compactor tonnage seen during business hours for the year before the pilot.

*Table 2. Moberly Lake Transfer Base Line Transactions*

	Q1 July – Sept 2020	Q2 Oct –Dec 2020	Q3 Jan – Mar 2021	Q4 April – June 2021	TOTAL
# of BHW Transactions During Operational Hours	487	419	308	299	1,513
Tonnage of Compactor	34.56TN	21.75TN	24.65TN	17.2TN	98.16TN

When compared to the previous year's baseline data, there has been an overall reduction of 337 transactions (22%) taking place during business hours in a twelve month period. Tonnage in that same time period, has increased by 8.9% or 9.55 tonnes. Since the start of the pilot, 10% of the total bags received at the site were disposed of after operating hours.

This indicates that the afterhours bin has not deterred people from using the site during operating hours and has increased the tonnage of waste received at the site.

*Prespatou Transfer Station:*

Table 3 outlines the number of tips and the tonnage within the bear bin during the Q1, Q2, Q3, and Q4 of the pilot.

*Table 3. Prespatou Transfer Station Afterhours Pilot Tracking*

	Q1 July - Sept 2021	Q2 Oct -Dec 2021	Q3 Jan - Mar 2022	Q4 April - June 2022	TOTAL
# of BHW Transactions During Operating Hours	247	243	207	256	953
Tonnage of Compactor Received during operating hours	7.45TN	13.17TN	6.65TN	5.6TN	32.87TN
# of Tips of After Hours Bin	1	2	3	3	9
Tonnage of After Hours Bin	1.07TN	2.69TN	4.11TN	4.89TN	12.76TN
Illegal Dumping Incidents	0	0	0	0	0

In Q4, the tonnage received afterhours increased by 16% or 0.78 tonnes compared to Q3. Waste received afterhours in Q4 equaled 46 % of the total tonnage of household bagged waste for the quarter.

Table 4 below provides the baseline information of the number of transactions and compactor tonnage seen during business hours at Prespatou for the year prior to the pilot.

*Table 4. Prespatou Transfer Base Line Transactions*

	Q1 July – Sept 2020	Q2 Oct-Dec 2020	Q3 Jan – Mar 2021	Q4 April – June 2021	TOTAL
# of BHW Transactions during Operating Hours	254	296	258	357	1165
Tonnage of Compactor Received during operating hours	8.37TN	13.80TN	11.64TN	13.88TN	47.69TN

When compared to the previous year's baseline data, there has been an overall reduction of 212 transactions (18.2%) taking place during business hours in a 12 month period. Tonnage in that same time period, has decreased by 4.4 % or 2.06 tonnes. Since the start of the pilot, 28% of the total bagged waste tonnage was received at the site happen after hours.

This indicates that the afterhours bin has caused customers to use the site less during business hours, favoring the after-hours bin, as the overall customer count is down. Tonnage received, however, remained similar through the pilot.

In conclusion, the program seems to be working well with minimal illegal dumping incidents and residents utilizing the program. At this time the after-hours use is approximately 10-20% of the total bagged waste received for the sites. It is recommended that the pilot be adopted as a permanent operating practice for MLTS and PPTS, and that the pilot program be initiated to include two new sites, one in the south peace (Rolla Transfer Station) and one in the north peace (Cecil Lake Transfer Station).

### ALTERNATIVE OPTIONS:

1. That the Solid Waste Committee provide further direction.

### STRATEGIC PLAN RELEVANCE:

- ☒ New and Emerging Issues
- ☒ Embracing 'new normal' opportunities

### FINANCIAL CONSIDERATION(S):

Table 5 below outlines the estimated lost tipping fee revenue during the pilot.

*Table 5. Estimated Lost Tipping Fee Revenue*

	Q1 July – Sept 2021	Q2 Oct – Dec 2021	Q3 Jan – Mar 2022	Q4 April – June 2022
Lost Tipping Fees MLTS (\$0.80/bag)	\$546.40	\$424.00	\$416.00	\$436.80
Lost Tipping Fees PPTS (\$55/tonne)	\$58.85	\$147.95	\$226.05	\$268.95
<b>Subtotal</b>	<b>\$605.25</b>	<b>\$571.95</b>	<b>\$642.05</b>	<b>\$705.75</b>
<b>Total</b>	<b>\$2,525.00</b>			

Table 6 below outlines the tipping fees received at the MLTS and PPTS during the pilot.

*Table 6. Received Tipping Fee Revenue during Pilot*

	Q1 July-Sept 2021	Q2 Oct-Dec 2021	Q3 Jan – Mar 2022	Q4 April – June 2022
Bagged Waste Received Tipping Fees MLTS	\$2,220	\$2,795	\$1,904	\$2,419
Bagged Waste Received Tipping Fees PPTS	\$530.60	\$651.90	\$532.05	\$644.75
<b>Subtotal</b>	<b>\$2,750.51</b>	<b>\$3,447.16</b>	<b>\$2,436.05</b>	<b>3,063.75</b>
<b>Total</b>	<b>\$11,697.47</b>			

For the PPTS, it is important to note that the tipping fee information presented in Table 6 is just for bagged and household waste received at the site. PPTS is a Tier 1 site that also accepts wood waste, metal, bulky waste, tires, and appliances during operating hours for a fee. Transactions for those materials are not included in Table 6 as those materials only brought in during operation hours.

Table 7 outlines the cost of operating the pilot to date.

*Table 7. Pilot Cost to Date*

	Q1 July-Sept 2021	Q2 Oct-Dec 2021	Q3 Jan – Mar 2022	Q4 April – June 2022
PPTS Bear Bin Rental	\$889.59	\$893.64	\$897.69	\$897.69
PPTS Bear Bin Tips	\$368.56	\$737.12	\$1,172.87	\$1172.87
<b>PPTS Total</b>	<b>\$7,030.03</b>			
MLTS Bin Construction	\$3,162.37	N/A	N/A	N/A
MLTS Fence Modification	\$504.65	N/A	N/A	N/A
MLTS Bin Cleaning/Carcass removal	N/A	\$810.00	N/A	N/A
<b>MLTS Total</b>	<b>\$4,477.02</b>			
<b>PILOT Total</b>	<b>\$11,507.05</b>			

### COMMUNICATIONS CONSIDERATION(S):

None at this time.

### OTHER CONSIDERATION(S):

None at this time.

#### External Links:

1. [June 3, 2021 Solid Waste Committee Meeting](#) – See Item 9.2 “24 Hour Access Pilot at Manned Transfer Stations, ENV-SWC-045”
2. [October 8, 2021 Solid Waste Committee Meeting](#) – See Item 9.2 “24 Hour Manned Transfer Station Pilot First Quarter Update, ENV-SWC-057”
3. [February 3, 2022 Solid Waste Committee Meeting](#) – See item 10.2 “24 Hour Manned Transfer Station Pilot Second Quarter Update, ENV-SWC-074”
4. [May 13, 2022 Solid Waste Committee Meeting](#) – See item 9.5 “24 Hour Manned Transfer Station Pilot Third Quarter Update, ENV-SWC-074”