

Transportation and Labor Cost Analysis for Recyclable Material Transfer Facility

East Fallowfield Township
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East Fallowfield, PA 19320
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SCS ENGINEERS

02223021.00 – Task 5 | February 16, 2024

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Table of Contents

Section	Page
1 Project Background	1
2 Summary of Work	1
3 Results	3
Alternative Facility	3
Cost Estimates	4
Additional Considerations.....	7
4 Conclusion	8

Tables

Table 1.	Estimated Annual Transportation and Labor Costs	6
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Appendices

- Appendix A – Regional Map of Communities and Recycling Facilities
 - Appendix B – Community Questionnaires
 - Appendix C – Detailed Transportation and Labor Cost Estimates
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1 PROJECT BACKGROUND

East Fallowfield Township (Township) provides solid waste and recycling collection services to approximately 2,800 households. Residents receive weekly trash collection service on Friday. The Township issued each household a 96-gallon cart and all trash must fit in the cart for collection. The Township also provides each household with a 96-gallon cart for the placement of recyclable materials. Residents are allowed to place an unlimited amount of recyclable materials at the curb for collection. Recyclable materials that cannot fit in the 96-gallon cart may be placed next to the cart or in a separate container labeled “recycling.” Recyclable materials are collected every other Friday. Trash and recycling collection in the Township is provided by a contracted private hauler.

The Township provides the following additional solid waste services to residents:

- **Bulky Trash** – Bulky trash is collected curbside from residents the first Friday of every month. Each household is limited to two bulky items per collection and no advanced scheduling is required.
- **Electronics** – Township residents may drop-off electronic items at the Township’s municipal building weekdays. Residents are required to show identification to confirm they are a resident of East Fallowfield Township.
- **Yard Waste** - The Township provides curbside wood chipping services to residents on the first Monday of each month throughout the year. Additionally, the Township collects leaves curbside in paper bags weekly from mid-October through mid-December. Finally, residents can drop-off yard waste year around at the Central Chester County Recycling Authority’s compost site in neighboring South Coatesville.

The Township and neighboring jurisdictions, Valley Township, Modena Borough, and South Coatesville Borough, commissioned this study to understand the financial feasibility of utilizing a former recycling transfer station owned by the Central Chester County Recycling Authority located at 6 IMS Drive in East Fallowfield Township (Alternative Facility). Currently, each community transports recyclable materials to facilities outside the region for processing and marketing. **Appendix A** is a regional map of each of these communities and the location of the recycling facilities where materials are currently transported for processing and marketing.

These communities requested recycling technical assistance to conduct a high-level financial analysis to compare each community’s current recycling transportation and labor costs to the estimated transportation and labor costs if recyclable materials were delivered to the Alternative Facility. This technical assistance project was designed to serve as an initial screening for the feasibility of the Alternative Facility.

2 SUMMARY OF WORK

The following summarizes the tasks established to complete this project.

Task 1 – Data Collection

For this task, the SCS Team prepared a questionnaire and issued it to each of the four communities participating in this study, including East Fallowfield Township, Valley Township, Modena Borough, and South Coatesville Borough. A copy of the questionnaire was issued via email as a Microsoft Word document as well as a link to a Google Forms online survey that allowed for online completion and submittal.

The questionnaire sought information pertaining to each municipality's recyclable material transportation practices, including details concerning the following general topics:

- Recyclable material hauler information (municipality owned vehicles and municipality staff vs. private hauler contracts)
- Currently utilized recycling facility or transfer facility locations, number and frequency of trips made to the facility, average turnaround times, etc.
- Details regarding recyclable material pickup within the community including frequency, types of accepted materials, vehicle information, average recyclable material weight handled, etc.

Task 2 – Site Visit and Meetings

For Task 2, the SCS team met with representatives from each of the communities at the Alternative Facility located at 6 IMS Drive. The purpose of the meeting included the following:

- Physically tour the Alternative Facility to evaluate its viability to serve as a comparable option for recyclable material drop-off for each of the municipalities
- Discuss the current project status including review of the draft cost analysis as derived from the data provided in the initial questionnaire responses
- Identify potential data gaps and erroneous data, and
- Establish a plan for necessary modifications or refinements to the draft cost analysis including formal review from community representatives and additional data requests.

Task 3 – Cost Analysis

Based on the information collected and confirmed as part of Tasks 1 and 2, the SCS Team estimated the annual per mile cost for each community to transport recyclable materials to the Alternative Facility. The new estimated transportation cost is compared to the current transportation cost each community incurs for recyclable materials.

Questionnaire response data was compiled and used to create a draft cost analysis comparing expenditures associated with the current recyclable material transport practices versus the hypothetical utilization of the Alternative Facility for receipt of municipal recyclable materials. In addition to the review of questionnaire responses as provided by each municipality, a review of publicly available information was completed to inform the development of the draft version of the cost analysis.

Based on discussions during the Alternative Facility site visit (Task 2), the SCS Team sent follow-up emails to community representatives asking each to review the draft cost analysis. The review was to obtain feedback or additional information to revise and create a more accurate cost analysis. Included with this request was the Microsoft Excel document containing the draft cost analysis.

Task 4 – Final Report

Task 4 includes the development of this final report that details the tasks and activities completed for this project. The initial report was prepared as draft for the municipalities and PADEP staff

comments and edits. Feedback received was incorporated into this report and it was electronically transmitted to both East Fallowfield Township staff and PADEP.

3 RESULTS

ALTERNATIVE FACILITY

The Alternative Facility is located at 6 IMS Drive in East Fallowfield Township. The one-acre property is owned by the Central Chester County Recycling Authority. Previous use of the site included the sorting of recyclable materials. The property includes one fully enclosed building with covered outdoor storage on both the north and south ends of the building. The front of the building includes two (2) large sliding doors while the back of the building has four (4) overhead doors for entry and exit. There are paved traffic lanes around the entirety of the structure; however, many sections are in poor condition. The site is also used to store equipment and containers that are not in use.

Construction of the building fits the natural landscape of the property whereby the building is built into an incline on the property. This makes the west (back) side of the property a higher elevation than the east side of the property facing IMS drive. This design generally fits a transfer station facility, which allows materials tipped at the facility to be loaded to vehicles at a lower elevation.

The property is located in an industrial area of the Township near a large asphalt plant and storage units. The site is buffered by trees and farm fields with few immediate neighbors. **Figure 1** is a Google Earth® image of the property. **Figure 2** includes pictures taken by the SCS Team during the site visit and observations (Task 2).

Figure 1. Image of Alternative Recycling Facility in East Fallowfield Township

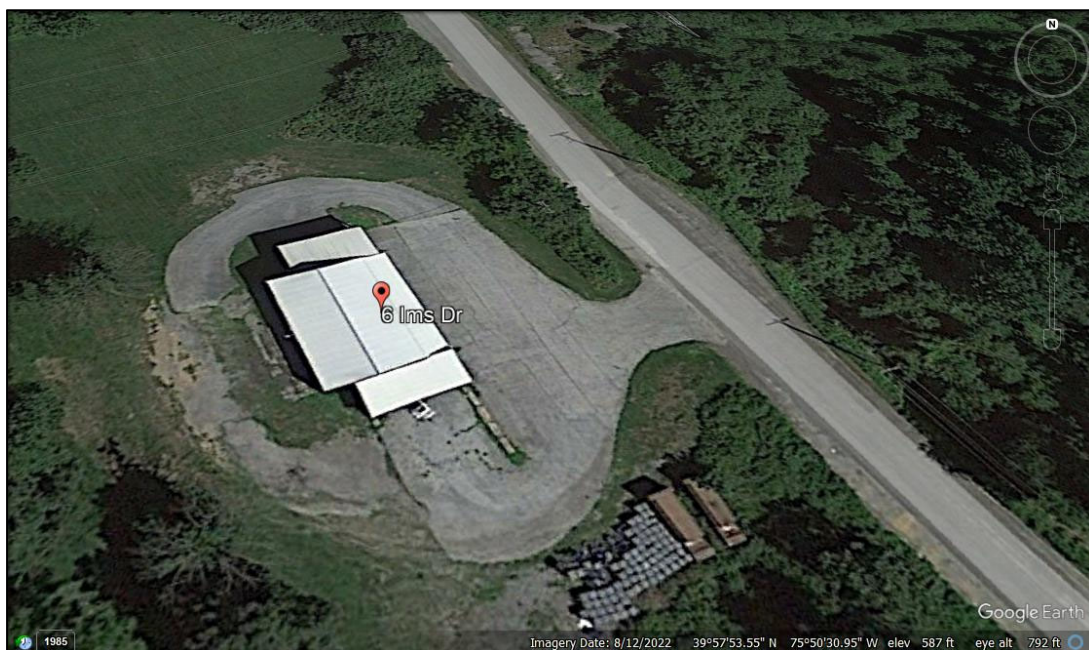


Figure 2. Pictures of the Alternative Facility



Site entrance/exit off IMS Drive



View of the west side of the Alternative Facility



Covered storage area off the side of the building



Inside of the building

COST ESTIMATES

The SCS team completed a cost analysis that included the transportation (fuel and diesel exhaust fluid, DEF) and labor costs for redirecting recyclable materials collected by each of these communities to the Alternative Facility located at 6 IMS Drive in East Fallowfield Township. These estimates include a comparative assessment of the calculated recyclable material transportation costs from each municipality's current program as well as the hypothetical usage of the Alternative Facility. These costs are based on information provided and obtained as part of Tasks 1 through 3, particularly the community questionnaires that were completed as part of Task 1. Additional calculations were made to compare potential cost savings through alternative means. **Appendix B** includes the questionnaire responses received from the communities participating in this study.

Included in the estimated costs are the following:

- Estimated annual fuel and diesel exhaust fluid (DEF) expenses associated with recyclable material transport based on each community's current practices
- Estimated annual fuel and DEF expenses associated with recyclable material transport to the Alternative Facility
- Estimated annual fuel and DEF expense savings for utilizing the Alternative Facility
- Estimated annual driver labor hours and associated monetary costs related to recyclable material transport based on each community's current practices
- Estimated annual driver labor hours and associated monetary cost related to recyclable material transport to the Alternative Facility
- Estimated annual labor expense savings for utilizing the Alternative Facility
- Estimated annual total transportation and labor cost savings associated with a change from current practices to a scenario that utilizes the Alternative Facility for each community.

Several estimations and assumptions were made to supplement the information obtained as part of Tasks 1 through 3. These included the following items:

- Diesel fuel and DEF price per gallon estimations (\$4.50 and \$6.50, respectively),
- Vehicle diesel fuel and DEF mpg consumption estimations (varied based on vehicle information provided, evaluation of routes taken, and other variables),
- Assumed municipal employee fully burdened labor rates of \$87.50 per hour, and
- Assumed comparable turnaround times for recyclable material drop-offs at the Alternative Facility.

This analysis indicates that all four (4) communities participating in this study would realize annual fuel and labor savings by using the potential recycling transfer station owned by the Central Chester County Recycling Authority located at 6 IMS Drive in East Fallowfield Township. The estimated annual transportation and labor costs savings by community are as follows.

- Modena Borough: \$26,283.24
- Valley Township: \$41,095.18
- East Fallowfield Township: \$4,140.89
- South Coatesville Borough: \$13,788.71

Planning level cost estimates for each community are summarized in **Table 1. Appendix C** includes more information and details on these cost estimates.

Table 1. Estimated Annual Transportation and Labor Costs

Municipality	Modena		Valley		East Fallowfield ¹		South Coatesville	
Recycling Facility Location	Current: Totalrecycle, Inc. (J.P. Mascaro & Sons) 1270 Lincoln Rd, Birdsboro, PA 19508	Alternative: 6 Ims Drive Coatesville	Current: Totalrecycle, Inc. (J.P. Mascaro & Sons) 1270 Lincoln Rd, Birdsboro, PA 19508	Altnerative: 6 Ims Drive Coatesville	Current: 1600 Chestnut Tree Rd, Honey Brook, PA 19344 (Transfer) 3625 Mia Brae Dr, York, PA 17406 (Penn Waste MRF)	Alternative: 6 Ims Drive Coatesville	Current: J.P Mascaro & Son's, DeKalb Pike, Bridgeport, PA 19405	Alternative: 6 Ims Drive Coatesville
Collection Frequency	Weekly	Weekly	Weekly, Tues.-Fri.	Weekly, Tues.-Fri.	Every Other Week - .5 township 1 week, .5 township other	Every Other Week - .5 township 1 week, .5 township other	Weekly	Weekly
Volume Per Week (Tons)	0.6	0.6	14.35		10.4	10.4	2.5	2.5
Volume Per Year (Tons)	31.2	31.2	746	746	540	540	130	130
Estimated Annual Fuel & Diesel Exhaust Fluid (DEF) Expenses	\$5,008	\$337	\$10,593	\$1,348	\$2,287	\$421	\$3,852	\$301
Estimated Annual Savings for Fuel & DEF Expenses	\$4,671		\$9,245		\$1,866		\$3,551	
Estimated Annual Driver Labor Costs For Facility Turns (\$87.5/hr) ²	27,300	5,688	54,600	22,750	7,963	5,688	15,925	5,688
Estimated Annual Driver Labor Hours For Facility Turns Savings ³		247		364		26		117
Estimated Annual Driver Labor Costs For Facility Turns Savings	\$21,612.50		\$31,850.00		\$2,275.00		\$10,237.50	
Total Estimated Annual Fuel and Labor Savings	\$26,283.24		\$41,095.18		\$4,140.89		\$13,788.71	

1. Total estimated costs for East Fallowfield based on additional assumptions. No accurate breakdown of associated recyclable transportation fees was received from the current or future private waste hauler or township.

2. Estimated Drive Labor Costs based on an assumed fully burdened hourly labor rate of \$87.50.

3. Estimated Driver Labor Hours per turn for 6 Ims Drive are based on assumed comparable turnaround times for the current facilities.

As East Fallowfield Township is the only municipality participating in this study that utilizes a private hauler for the collection and transportation of their recyclable materials, The Township could not provide specific information regarding those services. As of the time of this report, no contractual information pertaining to a specific breakdown of the expenses or fees associated with these services was provided. Multiple attempts were made to contact the Township's hauler in 2023 (Waste Management) and the new hauler contracted as of January 1, 2024 (A.J. Blosenski) to request information pertaining to hauling practices and associated costs. Voice messages were left with each of the companies requesting return calls to discuss the needed information.

ADDITIONAL CONSIDERATIONS

This recycling technical assistance financial analysis has been performed to evaluate the potential cost savings associated with modifications to the current practices of four (4) Chester County, Pennsylvania municipalities pertaining to the transportation of recyclable material to and from the Alternative Facility in comparison to each municipality's currently utilized recyclable transfer facility.

This analysis does not include the following cost considerations that must also be analyzed in order to fully understand the financial impacts associated with utilizing the Alternative Facility:

- Necessary facility and site modifications to facilitate its usage as a recycling transfer station
- Facility operations and logistics, including how materials are tipped at the Alternative Facility and how the materials will be loaded on vehicles/trailers for material processors
- Material transport to processing facility(ies)
- Changes in collection schedules, types of materials handled, or recyclable volume changes
- Consolidation or sharing of resources among participating municipalities including modifications to staff, vehicle, or other similar resources
- Arrangements/agreements with the Central Chester County Recycling Authority on the sale and/or leasing of the property to municipalities
- Evaluation of Alternative Facility for the establishment of a recycling convenience center to compliment curbside recycling programs
- Other similar scenarios.

This draft cost analysis was conducted in accordance with reasonable and accepted industry practices, and the interpretations and conclusions are rendered in a manner consistent with other professionals within our industry. However, all geophysical techniques have some level of uncertainty and limitations. No other representations are expressed or implied, and no warrant or guarantee is included or intended.


4 CONCLUSION

The results of this high-level financial analysis indicate that the communities participating in this study would expect to see transportation and labor related cost savings associated with utilization of the Alternative Facility for the consolidation of recyclable materials. As discussed within Section 3, Results and presented in **Appendix C** of this document, potential transportation cost savings are primarily associated with reductions in fuel usage and employee labor. It is important to note that as briefly addressed within the results section of this document, the transition to utilize the Alternative Facility would be expected to result in additional incurred expenses. Counter to that, there is also potential for additional cost savings. To better understand the financial ramifications of the potential switch to the utilization of the Alternative Facility, it is recommended that the communities further study the additional considerations listed in Section 4 of this report, as well as all other significant variables.



Appendix A

Regional Map of Communities and Recycling Facilities



Appendix B

Community Questionnaires

Pennsylvania Recycling Technical Assistance

East Fallowfield Township and neighboring jurisdictions, Valley Township, Modena Borough, and South Coatesville Borough, are interested in understanding the financial feasibility of utilizing a potential recycling transfer station owned by the Central Chester County Recycling Authority located at 6 IMS Drive in East Fallowfield Township. Currently, each community transports recyclable materials to facilities outside the region for processing.

Compliance Plus Services (“CPS”), on behalf of SCS Engineers (“SCS”) has been tasked with conducting a high-level financial analysis to compare each community’s current recycling transportation costs to the estimated transportation costs if recyclable materials were delivered to a local facility at 6 IMS Drive.

To assist with the performance of this study, we ask that you kindly complete the following data request questionnaire regarding current community recyclable material handling practices and associated expenses.

Community Information

Community Affiliation

- ☒ East Fallowfield
- ☐ Valley
- ☐ Modena
- ☐ South Coatesville

Name of Respondent

Scott M. Swichar

Respondent Position or Title within the Community

Township Manager

Respondent Preferred Contact Information. Please provide phone number and email.

484-800-6908

Community Recycling Vendor Information

Do you have more than one recycling vendor?

☐

Yes

☒

No

Name(s) and address(es) of currently utilized recycling vendor(s) facility or transfer station?

Processing is at Penn Waste, York, PA, transfer station is at 600 Chestnut Tree, Honeybrook, PA

Distance (miles roundtrip) to recycling vendor(s) facility or transfer station?

Accepted recyclable items? (e.g., paper, cardboard, plastic, aluminum/metal, glass, etc.)

flattened cardboard, magazines, office paper, brown paper bags, paperboard, newspapers, junk mail, phone books, aluminum cans foil and pie tins, clear and colored glass bottles, and jars, tins or steel cans, and plastic bottles #1-7.

Single-stream/comingled or Dual stream program?

Single Stream

Community Recycling Collection Information

What is the current community recycling collection frequency?

Every other week

How many turns are made to the recycling vendor per collection event? (Please specify per collection vehicle or total number per fleet)

OR

How many turns are made to the recycling vendor annually? (Please specify per collection vehicle or total number of per fleet)

Average collection vehicle turnaround time at recycling vendor?

Average total weight or volume of recyclables collected per collection event? (Please specify fleet total or per collection vehicle total)

OR

Annual total weight or volume of recyclables collected? (Please specify fleet total or averaged total per collection vehicle)

Any additional services provided? (e.g., bulky trash, electronics, yard waste, etc.)

If yes, please provide description of services and frequency of collection for each additional service.

Bulk Collection, two items collected once a month by hauler, Township staff collects electronics and yard waste (not included in the collection contract with A.J. Blosenski)

Fleet Vehicle Information Untitled Section

Are recycling collection vehicles municipality owned and operated?

If no, please identify the contracted private hauler.

☐ Yes

☒ No

☐ Other: _____

Number of trucks currently used for recycling collection?

If the information is available, please provide information about the collection of vehicles (e.g., type, quoted material volume held, etc.)

Recycling Transportation and Associated Operational Costs

Please provide a line-item summary of the costs associated with recyclable transportation and operation. This should include a breakdown of line items including but not limited to the following, as applicable:

1. Vehicle leasing fees
2. Annual fuel charges
3. Annual tolls associated with material transport
4. Annual fleet maintenance costs
5. Vehicle staging/parking fees
6. Vehicle cleaning costs
7. Vehicle permit or operational fees
8. Staff time, fees, and associated expenses
9. Any other additional recyclable transportation related expenses

1.

.....

Total annual costs associated with recyclable material transportation?

.....

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Google Forms

Pennsylvania Recycling Technical Assistance

East Fallowfield Township and neighboring jurisdictions, Valley Township, Modena Borough, and South Coatesville Borough, are interested in understanding the financial feasibility of utilizing a potential recycling transfer station owned by the Central Chester County Recycling Authority located at 6 IMS Drive in East Fallowfield Township. Currently, each community transports recyclable materials to facilities outside the region for processing.

Compliance Plus Services (“CPS”), on behalf of SCS Engineers (“SCS”) has been tasked with conducting a high-level financial analysis to compare each community’s current recycling transportation costs to the estimated transportation costs if recyclable materials were delivered to a local facility at 6 IMS Drive.

To assist with the performance of this study, we ask that you kindly complete the following data request questionnaire regarding current community recyclable material handling practices and associated expenses.

Community Information

Community Affiliation

- ☐ East Fallowfield
- ☐ Valley
- ☒ Modena
- ☐ South Coatesville

Name of Respondent

Scott Steffey

Respondent Position or Title within the Community

Public works Employee (PT)

Respondent Preferred Contact Information. Please provide phone number and email.

secretary@boroughofmodenapa.org

Community Recycling Vendor Information

Do you have more than one recycling vendor?

☐

Yes

☒

No

Name(s) and address(es) of currently utilized recycling vendor(s) facility or transfer station?

JP Mascaro & Sons 1270 Lincoln Road Birdsboro, PA 19508

Distance (miles roundtrip) to recycling vendor(s) facility or transfer station?

52

Accepted recyclable items? (e.g., paper, cardboard, plastic, aluminum/metal, glass, etc.)

All of the above

Single-stream/comingled or Dual stream program?

Single Stream

Community Recycling Collection Information

What is the current community recycling collection frequency?

Weekly

How many turns are made to the recycling vendor per collection event? (Please specify per collection vehicle or total number per fleet)

OR

How many turns are made to the recycling vendor annually? (Please specify per collection vehicle or total number of per fleet)

52 times, not turns, are made to the recycling vendor annually..

Average collection vehicle turnaround time at recycling vendor?

45 minutes

Average total weight or volume of recyclables collected per collection event? (Please specify fleet total or per collection vehicle total)

OR

Annual total weight or volume of recyclables collected? (Please specify fleet total or averaged total per collection vehicle)

0.60 of a ton

Any additional services provided? (e.g., bulky trash, electronics, yard waste, etc.)

If yes, please provide description of services and frequency of collection for each additional service.

No

Fleet Vehicle Information Untitled Section

Are recycling collection vehicles municipality owned and operated?

If no, please identify the contracted private hauler.



Yes



No



Other:

Number of trucks currently used for recycling collection?

1

If the information is available, please provide information about the collection of vehicles (e.g., type, quoted material volume held, etc.)

2023 Kahan curb sorter International Recycling truck

Recycling Transportation and Associated Operational Costs

Please provide a line-item summary of the costs associated with recyclable transportation and operation. This should include a breakdown of line items including but not limited to the following, as applicable:

- 1. Vehicle leasing fees
- 2. Annual fuel charges
- 3. Annual tolls associated with material transport
- 4. Annual fleet maintenance costs
- 5. Vehicle staging/parking fees
- 6. Vehicle cleaning costs
- 7. Vehicle permit or operational fees
- 8. Staff time, fees, and associated expenses
- 9. Any other additional recyclable transportation related expenses

1.

- 1. None
- 2. Fuel: 300 gallons a year / DEF: 20 gallons a year / new truck, no inspection or oil changes yet.
- 3. N/A
- 4. N/A
- 5. N/A
- 6. N/A
- 7. N/A
- 8. Weekly PW transports to the recycling facility. Round trip staff time is 3-4 hours.
- 9. N/A

Total annual costs associated with recyclable material transportation?

Fuel: 300 gallons a year / DEF: 20 gallons a year / new truck, no inspection or oil changes yet.

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Pennsylvania Recycling Technical Assistance

East Fallowfield Township and neighboring jurisdictions, Valley Township, Modena Borough, and South Coatesville Borough, are interested in understanding the financial feasibility of utilizing a potential recycling transfer station owned by the Central Chester County Recycling Authority located at 6 IMS Drive in East Fallowfield Township. Currently, each community transports recyclable materials to facilities outside the region for processing.

Compliance Plus Services (“CPS”), on behalf of SCS Engineers (“SCS”) has been tasked with conducting a high-level financial analysis to compare each community’s current recycling transportation costs to the estimated transportation costs if recyclable materials were delivered to a local facility at 6 IMS Drive.

To assist with the performance of this study, we ask that you kindly complete the following data request questionnaire regarding current community recyclable material handling practices and associated expenses.

Community Information

Community Affiliation

- ☐ East Fallowfield
- ☐ Valley
- ☐ Modena
- ☒ South Coatesville

Name of Respondent

Chris Corle

Respondent Position or Title within the Community

Public Works Foremen

Respondent Preferred Contact Information. Please provide phone number and email.

610-633-2359

Community Recycling Vendor Information

Do you have more than one recycling vendor?

- ☐ Yes
- ☒ No

Name(s) and address(es) of currently utilized recycling vendor(s) facility or transfer station?

J.P. Mascarp & Sons

Distance (miles roundtrip) to recycling vendor(s) facility or transfer station?

50

Accepted recyclable items? (e.g., paper, cardboard, plastic, aluminum/metal, glass, etc.)

Paper, cardboard, plastic, aluminum, glass

Single-stream/comingled or Dual stream program?

Single stream

Community Recycling Collection Information

What is the current community recycling collection frequency?

How many turns are made to the recycling vendor per collection event? (Please specify per collection vehicle or total number per fleet)

OR

How many turns are made to the recycling vendor annually? (Please specify per collection vehicle or total number of per fleet)

Once a week every week

Average collection vehicle turnaround time at recycling vendor?

3 to 4 hours

Average total weight or volume of recyclables collected per collection event? (Please specify fleet total or per collection vehicle total)

OR

Annual total weight or volume of recyclables collected? (Please specify fleet total or averaged total per collection vehicle)

5000 pounds

Any additional services provided? (e.g., bulky trash, electronics, yard waste, etc.)

If yes, please provide description of services and frequency of collection for each additional service.

Yard waste and leave pick up

Are recycling collection vehicles municipality owned and operated?

If no, please identify the contracted private hauler.

☒ Yes

☐ No

☐ Other:

Number of trucks currently used for recycling collection?

1 and 1 back up

If the information is available, please provide information about the collection of vehicles (e.g., type, quoted material volume held, etc.)

Peterbilt rear loader

Recycling Transportation and Associated Operational Costs

Please provide a line-item summary of the costs associated with recyclable transportation and operation. This should include a breakdown of line items including but not limited to the following, as applicable:

1. Vehicle leasing fees
2. Annual fuel charges
3. Annual tolls associated with material transport
4. Annual fleet maintenance costs
5. Vehicle staging/parking fees
6. Vehicle cleaning costs
7. Vehicle permit or operational fees
8. Staff time, fees, and associated expenses
9. Any other additional recyclable transportation related expenses

1.

In total it's about \$110,000.00. This is a rough number. I don't have a complete break down.

Total annual costs associated with recyclable material transportation?

\$31,000

Pennsylvania Recycling Technical Assistance

East Fallowfield Township and neighboring jurisdictions, Valley Township, Modena Borough, and South Coatesville Borough, are interested in understanding the financial feasibility of utilizing a potential recycling transfer station owned by the Central Chester County Recycling Authority located at 6 IMS Drive in East Fallowfield Township. Currently, each community transports recyclable materials to facilities outside the region for processing.

Compliance Plus Services ("CPS"), on behalf of SCS Engineers ("SCS") has been tasked with conducting a high-level financial analysis to compare each community's current recycling transportation costs to the estimated transportation costs if recyclable materials were delivered to a local facility at 6 IMS Drive.

To assist with the performance of this study, we ask that you kindly complete the following data request questionnaire regarding current community recyclable material handling practices and associated expenses.

Section 1

Community Information

1.Community Affiliation

East Fallowfield

Valley

Modena

South Coatesville

2.Name of Respondent

Janis Rambo

3.Respondent Position or Title within the Community

Township Manager/Secretary – Valley Township

4.Respondent Preferred Contact Information. Please provide phone number and email.

Enter your answer

jrambo@valleytownship.org

610 374-5751, ext 101

Section 2

Community Recycling Vendor Information

5. Do you have more than one recycling vendor? – we collect our own recycling by our public works personnel

Yes

No

6. Name(s) and address(es) of currently utilized recycling vendor(s) facility or transfer station?

Total Recycle - Audobon, PA

7. Distance (miles roundtrip) to recycling vendor(s) facility or transfer station?

Enter your answer

8. Accepted recyclable items? (e.g., paper, cardboard, plastic, aluminum/metal, glass, etc.)

All items under single-stream collection

9. Single-stream/comingled or Dual stream program?

Single Stream

Section 3

Community Recycling Collection Information

10. What is the current community recycling collection frequency?

1x per week

11. How many turns are made to the recycling vendor per collection event? (Please specify per collection vehicle or total number per fleet)

OR

How many turns are made to the recycling vendor annually? (Please specify per collection vehicle or total number of per fleet)

1 truck – Tuesday through Friday weekly

12. Average collection vehicle turnaround time at recycling vendor?

Varies – but no waits

13. Average total weight or volume of recyclables collected per collection event? (Please specify fleet total or per collection vehicle total)

OR

Annual total weight or volume of recyclables collected? (Please specify fleet total or averaged total per collection vehicle)

746 tons in 2022

14. Any additional services provided? (e.g., bulky trash, electronics, yard waste, etc.)

If yes, please provide a description of services and frequency of collection for each additional service.
We do bulk collection 2 x a year; yard waste once a month, May through October; leaves 1x a week in November and the first Monday in December; Christmas trees twice in January. We have an electronic drop off box, registered with DEP, at our municipal building

Section 4

Fleet Vehicle Information

15.Are recycling collection vehicles municipality owned and operated?

If no, please identify the contracted private hauler.

Yes - X

No

Other:

16.Number of trucks currently used for recycling collection?

1 truck – Tuesday through Friday (we do have an old truck as backup

17.If the information is available, please provide information about the collection vehicles (e.g., type, quoted material volume held, etc.)

Freightliner

Section 5

Recycling Transportation and Associated Operational Costs

18.Please provide a line-item summary of the costs associated with recyclable transportation and operation. This should include a breakdown of line items including but not limited to the following, as applicable:

1. Vehicle leasing fees
2. Annual fuel charges
3. Annual tolls associated with material transport
4. Annual fleet maintenance costs
5. Vehicle staging/parking fees
6. Vehicle cleaning costs
7. Vehicle permit or operational fees
8. Staff time, fees, and associated expenses
9. Any other additional recyclable transportation related expenses

1 – vehicles both owned

2 – fuel charges vary due to price of fuel; for 2023 estimating \$20,000

3 – tolls – n/a

4 – vehicle maintenance - \$\$21,000

5, 6, 7 – none

8 - \$55,000

P&M fees - \$40,000

20.Total annual costs associated with recyclable material transportation?

\$136,000, excluding personnel benefits

Steve Husted

From: Kris Lenhart <KLenhart@valleytownship.org>
Sent: Friday, October 27, 2023 1:25 PM
To: Steve Husted; Janis Rambo
Cc: Ethan Dortort
Subject: RE: Questionnaire Responses

I hope this helps. 1-We dump at the Birdsboro facility. 2- The recycling is collected Tuesday thru Friday, and the amount that we collect requires the truck to be dumped daily. 3- The biannual bulk events are for trash collection. These items are taken to the Lanchester landfill. The yard waste, Christmas tree collection, and leaf pick up collection materials are taken to a local inter-municipal compost site.

Kris Lenhart
Public Works/ Facilities Director
Valley Township
1145 West Lincoln Highway
Coatesville Pa 19320
610-384-5751 x201

From: Steve Husted <shusted@complianceplusservices.com>
Sent: Friday, October 27, 2023 12:44 PM
To: Janis Rambo <JRambo@valleytownship.org>
Cc: Kris Lenhart <KLenhart@valleytownship.org>; Ethan Dortort <edortort@complianceplusservices.com>
Subject: RE: Questionnaire Responses

Janis,

Regarding the questionnaire responses, I was hoping that you or Kris might be able to clarify a few things for me.

Total Recycle in Audubon, PA was the stated recycling facility used by your municipality. Upon the results of an initial search, I was unable to locate a facility by this name in Audubon. I did however locate a Totalrecycle, Inc. (J.P. Mascaro & Sons) facility at 1270 Lincoln Rd, Birdsboro, PA 19508. Is the facility in Birdsboro the one that is utilized? If not, are you able to provide the address for the facility in Audubon?

[Totalrecycle, Inc. - J.P. Mascaro & Sons | If it's service, it's us! | Solid Waste and Recycling Services for home, business and industry \(jpmascaro.com\)](https://www.jp-mascaro.com/)

It is stated that community recycling is collected weekly. To confirm, only one trip is made by the single recycling truck to the Total Recycle facility per week, correct? The stated "Tuesday through Friday" on the questionnaire response I assume refers to the days of the week that the truck collects recyclables within the community, while still only making 1 trip per week to the facility? Kindly provide clarification.

Finally, do your biannual bulk collection events, monthly yard waste, fall leaf collection, or Christmas tree collection events require additional trips to the facility, or are they combined with the weekly trip?

Thank you kindly for your time.

STEVEN J. HUSTED
Sr. Program Manager, Geological & Geophysical Services



240 GIBRALTAR RD, SUITE 100
HORSHAM, PA 19044
USA

☎ 215.734.1414 EXTENSION: 116

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'There is no such thing as "away". When we throw something away, it must go somewhere' - Annie Leonard

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From: Janis Rambo <JRambo@valleytownship.org>
Sent: Wednesday, October 25, 2023 10:21 AM
To: Steve Husted <shusted@complianceplusservices.com>; 'Scott Swichar' <sswichar@eastfallowfield.org>
Cc: Robert Struble <struble2@verizon.net>; Kris Lenhart <KLenhart@valleytownship.org>
Subject: RE: Questionnaire Responses

Please note that I will be out of the office from October 30 through November 8 on vacation. Should you require any additional information, please feel free to reach out to our Public Works/Facility Director, Kris Lenhart. klenhart@valleytownship.org / 610 384-5751, ext 201

Thanks,

Janis

Janis A. Rambo
Township Manager/Secretary
Valley Township, Chester County
1145 West Lincoln Highway
Coatesville, PA 19320
610 384-5751, ext. 101

From: Steve Husted <shusted@complianceplusservices.com>
Sent: Wednesday, October 25, 2023 9:48 AM
To: Janis Rambo <JRambo@valleytownship.org>; 'Scott Swichar' <sswichar@eastfallowfield.org>
Cc: Robert Struble <struble2@verizon.net>
Subject: RE: Questionnaire Responses

Thank you for sending that over, Janis. Much appreciated. We will review and come back to you if there are any additional questions.

All the best.

STEVEN J. HUSTED

Sr. Program Manager, Geological & Geophysical Services



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From: Janis Rambo <JRambo@valleytownship.org>

Sent: Tuesday, October 24, 2023 4:40 PM

To: 'Scott Swichar' <sswichar@eastfallowfield.org>

Cc: Steve Husted <shusted@complianceplusservices.com>; Robert Struble <struble2@verizon.net>

Subject: RE: Questionnaire Responses

Sorry, I had thought that the information that was provided to Mr. Struble had been passed along.

Thanks,

Janis

Janis A. Rambo
Township Manager/Secretary
Valley Township, Chester County
1145 West Lincoln Highway
Coatesville, PA 19320
610 384-5751, ext. 101

From: Scott Swichar <sswichar@eastfallowfield.org>

Sent: Tuesday, October 24, 2023 4:09 PM

To: Janis Rambo <JRambo@valleytownship.org>

Cc: Steve Husted <shusted@complianceplusservices.com>; Robert Struble <struble2@verizon.net>

Subject: FW: Questionnaire Responses

Hi Janis,

East Fallowfield Township and Central Chester County Recycling Authority received a technical assistance grant from DEP to investigate the possibility of having an inter-municipal transfer station for recyclable materials at the site on IMS Drive. The hope is that there would be a cost savings to all townships involved if we worked together. Could you please

connect with Steven Husted discuss Valley Township's trash and recycling collection program. He is requesting that you complete a short survey to better understand your program.
Your assistance is appreciated!

Thanks
Scott

Scott M. Swichar
Township Manager
East Fallowfield Township
484-800-6908 (office)
484-848-7218 (cell)

From: Steve Husted <shusted@complianceplusservices.com>
Sent: Tuesday, October 24, 2023 3:43 PM
To: Scott Swichar <sswichar@eastfallowfield.org>; robert struble <struble2@verizon.net>
Cc: Ethan Dortort <edortort@complianceplusservices.com>
Subject: Questionnaire Responses

Caution: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon. I hope the two of you are well.

I was hoping to be able reach out to Chris Corle of S. Coatesville and Jani Rambo of Valley through another means beyond me emailing them. As of today, we are still waiting on their responses. I've had a few back-and-forth emails with Chris and provided the questionnaire via email again on 10/17, per his request. Hopefully, he is close to turning it around to us. I received a read receipt notification for one of my emails sent on 10/9, from Janis, but haven't heard anything otherwise.

If you'd be so kind as to either provide a phone number for Chris and Janis so that I can reach out via phone call to see if any assistance is needed to help facilitate their responses or if you could reach out directly, I'd be appreciative.


Please let me know which method you prefer, and I will proceed accordingly.

Thank you kindly.


STEVEN J. HUSTED
Sr. Program Manager, Geological & Geophysical Services



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Appendix C

Detailed Transportation and Labor Cost Estimates

Municipality	Modena		Valley		East Fallowfield ¹		South Coatesville	
Recycling Facility Location	Current: Totalrecycle, Inc. (J.P. Mascaro & Sons) 1270 Lincoln Rd, Birdsboro, PA 19508	Alternative: 6 Ims Drive Coatesville	Current: Totalrecycle, Inc. (J.P. Mascaro & Sons) 1270 Lincoln Rd, Birdsboro, PA 19508	Alternative: 6 Ims Drive Coatesville	Current: 1600 Chestnut Tree Rd, Honey Brook, PA 19344 (Transfer) 3625 Mia Brae Dr, York, PA 17406 (Penn Waste MRF)	Alternative: 6 Ims Drive Coatesville	Current: J.P Mascaro & Son's, DeKalb Pike, Bridgeport, PA 19405	Alternative: 6 Ims Drive Coatesville
Collection Frequency	Weekly	Weekly	Weekly Tuesday-Friday	Weekly Tuesday-Friday	Every Other Week - .5 township 1 week, .5 township other	Every Other Week - .5 township 1 week, .5 township other	Weekly	Weekly
Volume Per Week (Tons)	0.6	0.6	14.35		10.4	10.4	2.5	2.5
Volume Per Year (Tons)	31.2	31.2	746	746	540	540	130	130
Average Diesel Price Per Gallon	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50	\$4.50
Average Truck MPG (non-pickup service) ²	5	5	5	5	4	4	4	4
Number Of Turns Per Week	2	1	4	4	1	1	1	1
Estimated Round Trip Distance to Facility (Miles)	52	7	55	7	38	7	64	5
Estimated Diesel Consumption Per Turn (Gal)	10.4	1.4	11.0	1.4	9.5	1.8	16.0	1.3
Estimated Diesel Consumption Per Week (Gal)	20.8	1.4	44.0	5.6	9.5	1.8	16.0	1.3
Estimated Yearly Mileage For Facility Transport	5408	364	11440	1456	1976	364	3328	260
Estimated Yearly Diesel Usage for Facility Transport (Gal)	1081.6	72.8	2288.0	291.2	494.0	91.0	832.0	65.0
Estimated Weekly Fuel Expense For Facility Transport	\$94	\$6	\$198	\$25	\$43	\$8	\$72	\$6
Estimated Yearly Fuel Expense For Facility Transport	\$4,867	\$328	\$10,296	\$1,310	\$2,223	\$410	\$3,744	\$293
Gallons DEF Per Gallons Of Fuel	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Gallons DEF Per Week	0.4	0.0	0.9	0.1	0.2	0.0	0.3	0.0
Gallons DEF Per Year	21.6	1.5	45.8	5.8	9.9	1.8	16.6	1.3
DEF Cost Per Gallon	\$6.50	\$6.50	\$6.50	\$6.50	\$6.50	\$6.50	\$6.50	\$6.50
Estimated Weekly DEF Cost	\$3	\$0	\$6	\$1	\$1	\$0	\$2	\$0
Estimated Yearly DEF Cost	\$141	\$9	\$297	\$38	\$64	\$12	\$108	\$8
Estimated Weekly Fuel + DEF Expense For Facility Transport	\$96	\$6	\$204	\$26	\$44	\$8	\$74	\$6
Estimated Yearly Fuel + DEF Expense For Facility Transport	\$5,008	\$337	\$10,593	\$1,348	\$2,287	\$421	\$3,852	\$301
Estimated Yearly Fuel + DEF Expense For Facility Transport Savings		\$4,671		\$9,245		\$1,866		\$3,551
Estimated Cost Per Mile (excluding labor)	\$0.93	\$0.93	\$0.93	\$0.93	\$1.16	\$1.16	\$1.16	\$1.16
Estimated Driver Labor Hours Per Turn ³	3	1.25	3	1.25	1.75	1.25	3.5	1.25
Estimated Driver Labor Hours Per Week	6	1.25	12	5	1.75	1.25	3.5	1.25
Estimated Yearly Driver Labor Hours For Facility Turns	312	65	624	260	91	65	182	65
Estimated Yearly Driver Labor Costs For Facility Turns (\$87.5/hr) ⁴	\$27,300	\$5,688	\$54,600	\$22,750	\$7,963	\$5,688	\$15,925	\$5,688
Estimated Yearly Driver Labor Hours For Facility Turns Savings		247		364		26		117
Estimated Yearly Driver Labor Costs For Facility Turns Savings		21,613		31,850		2,275		10,238
Total Estimated Annual Fuel and Labor Savings	26,283		41,095		4,141		13,789	

1. Total estimated costs for East Fallowfield based on additional assumptions. No accurate breakdown of associated recyclable transportation fees from the current or future private waste hauler or township was received.

2. Average Truck MPG (non-pickup service) estimates based on reported vehicle usage and applicable research.

3. Estimated Driver Labor Hours per turn for 6 Ims Drive are based on assumed comparable turnaround times for the current facilities.

4. Estimated Driver Labor Costs based on an assumed fully burdened hourly labor rate of \$87.50.