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Englewood, CO 80110
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July 31, 2013

RREO Grant Program
Attn: Eric Heyboer
Mail Code: DEHS-B2
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246-1530

Dear Mr. Heyboer and RROE Grant Committee:

Waste Management of Colorado, Inc. (WM) is pleased to present the Final Report for RREO's FY2013 grant award to Waste Management of Colorado, Inc., Contract # 13 FFA 44732. The report format follows the template you provided.

Organization Name: Waste Management of Colorado, Inc.

Project Title: Sterling Hub-and-Spoke Recycling System

Project Coordinator: Brad Pollock

Project Coordinator e-mail address and phone number:

- bpollock@wm.com
- 615-712-3650

Name of person(s) completing this report: Tom Schweitzer

E-mail address and phone number of person(s) completing this report:

- tschweit@wm.com
- 303-914-1445

We wish to thank the RREO Grant Committee for this opportunity to establish a hub-and-spoke system in Northeastern Colorado, which will provide recycling options to the area communities where none previously existed.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tom Schweitzer', is written over a horizontal line.

Tom Schweitzer, P.E.
Senior Engineer
Waste Management of Colorado, Inc.

I: ORGANIZATION INFORMATION

Please refer to the cover letter

II. WORK PLAN

| Deliverable | Completion Date | Comments (if deliverable was not completed, please explain why or what progress has been made) |
|---|-----------------|--|
| Distribute reference materials to new customers | Ongoing | Reference materials in the form of a list of acceptable/unacceptable materials and collection schedule calendar will be distributed to all Town of Akron customers with container distribution or in an upcoming utility bill, pending Town’s decision on which method they wish to utilize. Reference materials of similar type and content will be distributed to all future customers as they come on-line in Northeastern CO. |
| Establish residential and commercial single-stream collection. Begin consolidating and transporting recyclables to the Denver hub | Ongoing | Have secured a 5-year contract for single stream recycling with the Town of Akron with curbside collection starting the week of 09/30/13. Working with and have contacted several other communities as further discussed in this report. |
| Construction complete for single-stream consolidation facility | July 16, 2013 | Completion date represents when the Certification of Occupancy was issued by Logan County |

| Future Deliverables per Contract Amendment #1 | Completion Date | Comments (if deliverable was not completed, please explain why or what progress has been made) |
|---|------------------|---|
| Progress report | By June 30, 2014 | |
| Progress report | By June 30, 2015 | |

III. PROJECT SUMMARY

1. Executive Summary

The RREO grant enabled WM to construct a building at our hauling facility in Sterling, CO to be used for collecting curbside and commercial single stream recycling materials from the Northeastern Colorado region and transferring the materials to Denver for processing. The project also included working with municipal and county entities and commercial interests to provide education and promote recycling.

The building has been completed and received its Certification of Occupancy from Logan County on July 16, 2013. The compactor has been installed and the loader that will be used to feed the recyclable materials into the compactor has been delivered to the site.

Our efforts are ongoing in providing outreach and working with municipalities, counties and commercial entities in the region to establish curbside and commercial single stream recycling. During the week of 8/26/2013, we start container delivery to the town of Akron for curbside single stream recycling with collection starting the week of 9/30/2013. We are working with businesses in the Town of Akron to examine available recycling opportunities. We have had ongoing discussions with the cities of Holyoke and Yuma, in addition to numerous other municipalities regarding single stream recycling. These efforts will continue in the upcoming months and years and, in recognition of this ongoing process, an amendment to WM's contract with the State of Colorado has been established to provide ongoing progress reports in 2014 and 2015 to the RREO Grant Committee.

2. Project Description & Overview of Work Completed

Project Overview

The project consists of developing a hub-and-spoke recycling system to offer curbside and commercial single stream services as well as other recycling services to the communities in Northeastern Colorado. This region has had no access to curbside recycling and only limited commercial and drop-off recycling available. Through the grant award, WM constructed a building to serve as a "spoke" location where recyclable materials will be delivered, staged, compacted and then transported to WM's Single Stream Processing Facility in Denver (the "hub" location) where the materials will be processed and marketed.

The project also includes working with municipalities, counties and other entities in the region to offer curbside single stream collection, promote the program, provide education about the value of recycling and facilitate participation. Further, WM's goals included working with commercial and other entities to promote commercial single stream recycling and potentially provide additional drop-off locations.

Work Completed

The single stream facility received its Certification of Occupancy on July 16, 2013. The building is a Butler Classic-II steel building 60-feet wide, 120-feet long and has an eave height of 24-feet. It includes three 16-feet wide by 20-feet high overhead doors; two being used for receiving the single-stream material and the third for placing and removing the receiver boxes that will transport the compacted material to our Denver processing facility. The roof of the building incorporates translucent panels, enabling the use of natural light and thereby reducing artificial lighting demands during daylight hours.

The compactor unit is a reconditioned Quality Products-Hopkins Model QP-4 with a 4 cubic yard capacity. A 40 cubic yard receiver box will attach to the out-feed end of the compactor for accepting the compacted material. Two receiver boxes have been delivered to the site for this project. A six-foot high pushwall built with interlocking concrete blocks was placed along the front of the compactor hopper and along the length of one side of the building to facilitate management and loading of the single stream material. The loader that will be used to push the single stream material and feed the compactor hopper is a 2008 CAT 256C skid steer loader, which has been equipped with a grapple attachment.

At this time, we have secured a 5-year contract for single-stream recycling with the Town of Akron serving approximately 775 customers monthly. We will start collection container delivery the week of 8/26/13 and curbside collection the week of 9/30/13. Each resident will receive information about their recycling service schedule and details on what can and cannot be recycled. We have had ongoing discussions with the City of Holyoke and City of Yuma and on 7/11/13 we presented formal proposals at their request and are awaiting their review and feedback. We have held numerous discussions with the City of Sterling involving the City Manager. He is reviewing and holding discussions with staff and elected officials and we are awaiting feedback.

We have also been in contact with municipalities at various levels and, in some cases, multiple times during the past 10 months including Grover, Julesburg, Hillrose, Otis and Ovid. We are still in the process of contacting and presenting program information to additional communities in Northeastern CO including Brush, Fort Morgan, Wiggins, Haxtun and several other smaller Northeastern CO communities. This outreach will continue until all communities in the region have been presented with program information. Our outreach program will also begin to reach out to examine recycling opportunities in both municipal and county facilities throughout Northeastern CO in the coming months. This outreach is in addition to the efforts focused on curbside recycling.

As part of the residential outreach process, we are also informing our community contacts about the recycling options available to local businesses. At this time we are working with businesses in the Town of Akron to examine the recycling opportunities available, and proposals will be forthcoming. We will continue to work with local businesses in communities as we move the project forward throughout Northeastern CO.

3. Summary of Findings & Results

Based on WM's extensive travels and interaction with a vast majority of communities in Northeastern CO, they all appear to be very receptive to the addition of curbside recycling in their communities within budgetary parameters. In addition, area businesses contacted have also expressed an interest in the opportunities. We believe as more communities and businesses come on board, the program will continue to grow in popularity.

4. Summary of Unanticipated Outcomes or Roadblocks

We encountered delay with the permitting for the building construction, which we did not anticipate. At the time of our initial meeting with the County Planning Department in early June 2012, the county was in the process of evaluating land use/development guidance and uncertain as to whether this effort would have an impact on our proposed recycling facility. In the latter part of August, planning staff reviewed the matter with the Planning Commission and gave us the go ahead to proceed with the project. Until we knew whether the project might be impacted by new planning/building requirements or a public hearing process, we delayed proceeding with final design. Consequently, the site soils testing, building foundation design and notice-to-proceed to the general contractor occurred later than originally planned; preventing completion of site preparation and the building foundation prior to the onset of freezing temperatures in 2012. This, in turn, prevented the contractor from erecting the building through the winter. Site work resumed in March 2013, as soon as weather conditions allowed. Although a less significant impact on the project schedule, Xcel Energy, our electrical service utility, advised us of a shortage

of electrical transformers that resulted in some delay in providing the 3-phase electrical service for the compactor. This delayed final wiring in the building and issuance of the Certification of Occupancy.

5. Communication of Project Findings

We are in the initial stages of planning an event at the facility to publicly mark the opening of the facility and introduction of single stream recycling to the region. We will invite local media, elected officials, community leaders, CDPHE, WM customers and the general public. As part of the grand opening we will acknowledge/publicize the RREO grant funding.

Once the recycling facility is operational and the market is more fully developed, we plan to publicize a final report on the project and our ongoing efforts to continue expanding its influence area and the facility’s positive impact on recycling in Northeastern CO. We would also plan to highlight this project within social media, such as on WM’s Facebook page for national exposure.

6. Future Impact of the Project

Our recycling facility will provide a new outlet for collecting and managing recyclable materials for the communities in the region. In turn, this diversion may lessen the future disposal demand in Northeastern Colorado. Through our Denver processing facility, additional recyclable material will be available for marketing and reuse.

7. Financial Summary

Grant Budget Table

| Description | Grant Funds Spent | Matching/In Kind Amount (if any) | Total Amount |
|--|---------------------|----------------------------------|---------------------|
| Personnel Salaries | \$0.00 | \$0.00 | \$0.00 |
| Fringe Benefits | \$0.00 | \$0.00 | \$0.00 |
| Tuition/Fees | \$0.00 | \$0.00 | \$0.00 |
| Travel Costs | \$0.00 | \$0.00 | \$0.00 |
| Materials/Supplies/Equipment(under \$5000) | \$0.00 | \$66,642.67 | \$66,642.67 |
| Equipment Purchases (over \$5000) | \$0.00 | \$0.00 | \$0.00 |
| Contractors/Subcontractors | \$223,843.00 | \$45,727.53 | \$269,570.53 |
| Consultants | \$4,757.00 | \$2,353.00 | \$7,110.00 |
| Training/Education | \$0.00 | \$0.00 | \$0.00 |
| Marketing/Advertising | \$0.00 | Not tracked | \$0.00 |
| Other Direct Costs | \$0.00 | \$0.00 | \$0.00 |
| Indirect Costs | \$0.00 | \$0.00 | \$0.00 |
| Total Project Cost: | \$228,600.00 | \$114,723.20 | \$343,323.20 |

Total award amount: \$228,600.00

8. Conclusion

We are extremely pleased with the completed recycling building and the positive impact it will have in tapping the recycling potential in Northeastern Colorado. We have made significant progress in our outreach and marketing efforts, are encouraged by the receptivity of community leaders and businesses in the area, and expect to see the program continue to grow over the coming months. The RREO grant program was an important resource for this project and a key factor in expanding recycling capabilities in the region. We wish to thank you for this opportunity and appreciate the benefits the program brings to the state of Colorado.

9. Appendix

a. Grant Metrics Table

The facility has yet to receive recyclable material. Accordingly, the table cannot be completed at this time.

b. Community Leader Contact Information

- Annette Bowin, Town Administrator, Town of Akron, 970-345-2624, akrontown@centurytel.net
- Sid Fleming, City Manager, City of Yuma, 970-284-6931, s.fleming@yumacolo.org
- Mark Brown, City Superintendent, City of Holyoke, 970-854-2266, Holyoke@chase3000.com

c. Manuals, Brochures, Print Advertisements, Pictures, Educational Materials, etc.

The following pages include an example flier that is provided to residential curbside customers and photos of the recycling building.

Welcome To Waste Management



- Most recycling collection occurs every other week on the same day as your trash collection.
- Please make sure that all recyclables fit in your recycle container.
- Place your recycling and trash container at the curb between sundown on the day before collection and 6:00 a.m. the day of collection.
- Despite our best efforts, we occasionally miss scheduled collections. If we do, please call us as soon as you can. We'll try to return on the same day to pick it up, without charge.

Accepted Items (Empty and Clean):



Food Boxes/Boxboard
Empty cereal and cracker boxes



Brown Paper Bags



Phone Books, Catalogs and Magazines



Newspapers



Paper Cardboard, Dairy and Juice Containers



Office and School Paper



Glass Bottles or Jars



Junk Mail
Including envelopes



Cardboard
Collapse/cut boxes
Boxes must fit in container



Plastic Bottles and Containers #1-#7



Aluminum Foil and Cans



Tin and Steel Cans

Items NOT Accepted Include:

- Plastic bags and clear plastic wrap
- Video and cassette tapes
- Shredded paper
- Polystyrene
- Plates, mugs, and pots/pans
- Food, liquids or yard waste
- Food-soiled cardboard, paper cups/plates
- Carpet, cloth or textiles
- Used paper towels/tissues
- Construction/industrial debris
- Electronic waste
- Automotive parts
- Medical/Bio hazardous waste

Unaccepted items are not limited to those above

2013 Recycle Calendar

JANUARY 2013

| S | M | T | W | T | F | S |
|----|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | 1 | 2 |

FEBRUARY 2013

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| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | | |

MARCH 2013

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| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

APRIL 2013

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| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |

MAY 2013

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JULY 2013

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AUGUST 2013

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| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

SEPTEMBER 2013

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| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
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OCTOBER 2013

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|----|----|----|----|----|----|----|
| 29 | | 1 | 2 | 3 | 4 | 5 |
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| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

NOVEMBER 2013

| S | M | T | W | T | F | S |
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| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

DECEMBER 2013

| S | M | T | W | T | F | S |
|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

Green/Even Week

Yellow/Odd Week

Holiday

QUESTIONS? (800)482-6406

Visit www.wm.com, "My Account" to access your account.

Service Reference Codes: 001, 002, 009, 010, 020, 063, 881, 855, 858

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Observed Holiday Schedule: If a scheduled collection day falls on a holiday or the day after, collection may be delayed one day.

- New Year's Day-** Tuesday, January 1, 2013
- Memorial Day-** Monday, May 27, 2013
- Independence Day-** Thursday, July 4, 2013
- Labor Day-** Monday September 2, 2013
- Thanksgiving Day-** Thursday November 28, 2013
- Christmas Day-** Wednesday, December 25, 2013



Building Exterior – View from West Southwest
Building is 120 feet long, 60 feet high, with eave height of 24 feet
Recyclable materials will be received through the overhead doors shown on the photo



Quality Products-Hopkins Model QP-4 Compactor with 40 CY Receiver Box
Stacked interlocking concrete blocks serve as a pushwall along the front of the compactor hopper and the east side of the building



North End of Building
Compactor/receiver box and CAT 256C skid steer loader are shown
Receiver boxes will be accessed through the overhead door



South End of Building

Pushwall block along front of compactor hopper and east side of the building
Overhead door is one of two doors for material deliveries. The second door is to the right of the photo.



2008 CAT 256C Skid Steer Loader with Grapple Attachment