



County of Los Alamos

1000 Central Avenue
Los Alamos, NM 87544

Agenda - Final Environmental Sustainability Board

*Lisa Bakosi, Chair; Heather Ward, Vice-Chair; Susan Barns;
Dorothy Brown; Warren Mazanec; and Heidi Rogers; Members*

Thursday, January 17, 2019

5:30 PM

1000 Central Avenue, Suite 110

1. **CALL TO ORDER - ROLL CALL**

2. **PUBLIC COMMENT**

*This section of the agenda is reserved for comments from the public
on items that are not otherwise included in this agenda.*

3. **APPROVAL OF AGENDA**

4. **APPROVAL OF MINUTES**

[11578-19](#) Approval of the December 20, 2018, Environmental Sustainability
Board Minutes

Presenters: Lisa Bakosi

Attachments: [A - Draft ESB Minutes December 20, 2018](#)

5. **BOARD BUSINESS**

[11579-19](#) Presentation of 2018 October EcoChallenge Award Winners

Presenters: Lisa Bakosi

Attachments: [B - 2018 October Ecochallenge Presentation](#)

[11581-19](#) Composting of Food Waste at Reunity Resources by Dorothy Brown

Presenters: Lisa Bakosi

Attachments: [C - Composting of Food Waste at Reunity Resources](#)

[11582-19](#) Identification of Regional Composting Facility Sites and Its Costs by
Philo Shelton

Presenters: Lisa Bakosi

Attachments: [D - Identification of Regional Composting Facilities and
Costs by Philo Shelton](#)

[11583-19](#) Draft FY20 ESB Work Plan

Presenters: Angelica Gurule

Attachments: [E - DRAFT FY20 ESB Work Plan](#)

6. REPORTS

A. Chair's Report - Lisa Bakosi

B. Board Member Reports

C. Liaison's Reports/Team Updates

- 1). Board of Public Utilities - Sue Barns
- 2). Planning and Zoning Commission - Vacant
- 3). Transportation Board - Heather Ward/Don Machen
- 4). Parks and Recreation Board - Heidi Rogers
- 5). County Council Liaison - Pete Sheehey
- 6). Los Alamos Public Schools Team- Angelica Gurule
- 7). Zero Waste Los Alamos Team - Dorothy Brown

7. STAFF REPORT

[11584-19](#) December 2018 Residential Sustainability Report

Attachments: [F - Residential Sustainability Report - December 2018](#)

8. PREVIEW OF UPCOMING AGENDA ITEMS

- Finalize Work Plan
- Environmental Services Quarterly Financial Statement (LA Scores)
- Christmas Tree Pick Up Update

9. ADJOURNMENT

If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the County Human Resources Division at 662-8040 at least one week prior to the meeting or as soon as possible. Public documents, including the agenda and minutes can be provided in various accessible formats. Please contact the personnel in the Community Services Administration Office at 662-8163 if a summary or other type of accessible format is needed.



County of Los Alamos

Staff Report

January 17, 2019

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:

Index (Council Goals):

Presenters: Lisa Bakosi

Legislative File: 11578-19

Title

Approval of the December 20, 2018, Environmental Sustainability Board Minutes

Recommended Action Motion

I move that the Environmental Sustainability Board approve the December 20, 2018, minutes as presented.

Or

I move that the Environmental Sustainability Board approve the December 20, 2018 minutes as amended.

Body

The ESB will review and approve the December 20, 2018, Environmental Sustainability Board Minutes.

Attachments

A - Draft ESB Minutes December 20, 2018



County of Los Alamos

1000 Central Avenue
Los Alamos, NM 87544

Minutes

Environmental Sustainability Board

Lisa Bakosi, Chair; Heather Ward, Vice-Chair; Susan Barns; Dorothy Brown; Warren Mazanec; and Heidi Rogers; Members

Thursday, December 20, 2018

5:30 PM

Council Chambers - 1000 Central
Avenue

1. CALL TO ORDER - ROLL CALL

ESB Chair, James Robinson, called the meeting to order at 5:33pm.

Present: Vice Chair Rogers, Member Bakosi, Member Barns, Member Brown, and Member Ward.

Absent: Member Mazanec

2. PUBLIC COMMENT

Julia Ying with Climate Reality Group and the Zero Waste Team spoke.

3. APPROVAL OF AGENDA

A motion was made by Member Barns, seconded by Member Bakosi, that the agenda be approved as presented.

The motion passed unanimously

4. APPROVAL OF MINUTES

[11495-18](#) Approval of the November 15, 2018, Environmental Sustainability Board Minutes

Presenters: James Robinson

Attachments: [A - Draft ESB Minutes November 15, 2018](#)

A motion was made by Member Ward, seconded by Member Brown, that the minutes be approved as presented.

The motion passed with Chair Robinson abstaining.

5. BOARD BUSINESS

[11496-18](#) Election of Environmental Sustainability Board Chair and Vice-chair

Presenters: James Robinson

Staff Liaison, Angelica Gurule, previously conducted a poll for Chair and Vice Chair nominations. Ballots were handed to ESB members to select the next ESB Chair and Vice Chair. Based on an unanimous vote Lisa Bakosi was selected as the ESB Chair and Heather Ward was selected as the ESB Vice-Chair. The change will go into effect at the January 2019 ESB Meeting.

11499-18 At Home Composting Basics Presentation by KokHeong McNaughton

Presenters: James Robinson

Attachments: [D – At Home Composting Basics by KokHeong McNaughton](#)

KokHeong McNaughton delivered a presentation on At Home Composting Basics to the Environmental Sustainability Board. The ESB continues to explore opportunities to reduce waste from the landfill and balancing costs. Home composting is a financially sound solution to diverting waste from the landfill, reducing greenhouse gas emissions, and producing valuable top soil for trees, flowers and grass.

11498-18 Approval of the 2019 ESB Meeting Schedule

Presenters: James Robinson

Attachments: [C - 2019 ESB Meeting Dates](#)

A motion was made by Vice Chair Rogers, seconded by Member Bakosi, that the 2019 ESB Meeting Schedule be approved as presented.

The motion passed unanimously.

11504-18 Preparation of FY20 ESB Work Plan

Presenters: James Robinson

Attachments: [E - FY19 ESB Work Plan](#)

Staff Liaison, Angelica Gurule asked ESB members to review the FY19 Work Plan and email her recommendations for the FY20 Work Plan. The draft FY19 Work Plan will be reviewed at the January ESB meeting.

6. REPORTS**A. Chair's Report - James Robinson**

ESB Chair Robinson reported that the County Council got a brief statement from the county manager about the award received from the Yard Trimming program. Bethel company is looking to build a new senior home on DP road.

B. Board Member Reports

Member Barns reported on being approached by a middle school teacher that informed her that there is now a Eco Club and would like someone to do presentations and activities with this club about the environment.

C. Liaison's Reports**1). Board of Public Utilities - Sue Barns**

Member Barns reported on the November meeting and the December meeting. NMED inspection of the Los Alamos drinking water was conducted and the water is 100% okay. Danny Katzmangave a presentaion about RDX contamination and that the contaminated soil is being removed and there is no contamination in the drinking water.

2). Planning and Zoning Commission - Vacant**3). Transportation Board - Heather Ward/Don Machen**

Member Ward reported that the speed limit sensor by Urban Park has been replaced with a new one that has capabilities of recording. The reports found that 50+% of cars driving through are going 29 MPH or more through the area. Will be looking into ways of slowing car down through that area. There was talk about pavement improvements especially on the roads and sidewalks of Tsikumu Village. The new electric buses are due to arrive in 12-18 months. They are expecting to start the roundabout state project in March by the Hilltop House as well as other projects that will cause more traffic.

4). Parks and Recreation Board - James Robinson/Heidi Rogers

Vice Chair Rogers that the board has a new subcommittee livestock advisory. The board is going to take the idea of renaming a piece of Rim Canyon Trail after Jim Bellen to County Council. They are in the process of creating the Flow Trail plan to be in the DP Canyon or LA Canyon. If the plan gets rejected by Council they made a motion to allocate the \$50,000 dedicated to the Flow Trail to keep it towards implementing a master trail plan and moving dirt to prepare for the master trail. The board received a complaint about the County using RoundUp

6). County Council Liaison - Pete Sheehey

ESB Chair Robinson reported that the Council will have a very busy year from appointing a new counselor, to the nuclear reactor decision (to be made in March), to all the different housing projects happening in 2019.

D. Team Reports**1). Los Alamos Public Schools - Lisa Bakosi**

Member Bakosi reported that the High School Eco Club have found a mentor and will have their first meeting in January.

Staff Liaison, Angelica Gurule, presented to Barranca School about sustainability and zero waste.

2). Zero Waste Los Alamos - Dorothy Brown

Member Brown reported that the Zero Waste Team discussed more ways on how food loss prevention can happen. She also practice her presentation that she will be presenting to the board in January about the tour of Reunity that ZWLA took back in November. Sue gave a presentation defining certain key terms such as Food Loss vs. Food Waste. Also, there was talk about creating a sort of library of Zero Waste equipment that could be used for events such as plates, bowls, utensils etc. As well, as talk about where we would put this library.

7. STAFF REPORT

[11497-18](#)

November 2018 Residential Sustainability Report

Presenters: Angelica Gurule

Attachments: [B - Residential Sustainability Report - November 2018](#)

Staff Liaison Angelica Gurule reported that the residential diversion rate of yard trimming decreased 31%, recycling increased 1% and trash increased by 13%. PEEC is hosting this year's Earth Day. We will be trying to collaborate with them to bring in more and new audiences. Residents are still asking for yard trimming carts and they are still being delivered as well as bear tough carts.

Member Barns commented on the report given that instead of month to month reports maybe annual reports with each individual category being compared.

8. PREVIEW OF UPCOMING AGENDA ITEMS

1. Work Plan FY20
2. Member Brown's Presentation - Reunity Resources
3. Philo - Composting capstone

9. ADJOURNMENT

A motion was made by Member Bakosi, that the meeting be adjourned.

The meeting was adjourned at 6:48 p.m.

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January 17, 2019

Los Alamos, NM 87544
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Agenda No.:

Index (Council Goals):

Presenters: Lisa Bakosi

Legislative File: 11579-19

Title

Presentation of 2018 October EcoChallenge Award Winners

.Recommended Action Motion

N/A

Body

The ESB will hear a summary of results from the 2018 October EcoChallenge and also recognize the award winners. Los Alamos had an outstanding representation of 95 community members and 9 teams.

Attachments

B - 2018 October EcoChallenge Presentation

2018 October EcoChallenge



LOS ALAMOS
Environmental Services

What is the October Ecochallenge?

- Sponsored by NWEI (North West Earth Institute)
- October EcoChallenge is a 21-day sustainability engagement program. The challenge takes place October 3 - October 24, 2018. Participants track and share their progress online in a robust platform and earn points for taking action. The combination of collective action, camaraderie, and friendly competition makes change a little easier — and a lot more fun.
- EcoChallenge provides tools and inspiration to turn intention into action, and gives participants a fun and social way to think about and act on proven solutions that make a difference for you, your community, and the planet. Over 100 actions within nine Challenge categories provide participants with diverse options to take action.

The Power of Collective Impact

- 16,615 Participants – Largest Ever EcoChallenge (95 participants in Los Alamos)
- 78 Countries Participating
- 842 Total Teams
- 1,035 Donations Made
- 32,795 Plastic Straws Not Sent to the Landfill
- 29,980 Disposable Cups Not Sent to the Landfill
- 46,290 Plastic Bottles Not Sent to the Landfill
- 35,362 Meatless or Vegan Meals Consumed
- 17,424 Miles Travelled By Carpool
- 4,964 Pounds Waste Composted
- 264,425 Gallons of Water Saved
- 5,687 Zero Waste Meals Consumed
- 32,508 Miles Travelled By Bus
- 332 Waste Audits
- 13,933 Miles Travelled By Bike
- 266,663 Pounds of CO2 Have Been Saved



ECOCALLENGE.ORG

264,425

GALLONS OF WATER SAVED

THAT COULD FILL OVER **13**
BACKYARD POOLS



87,843 MILES

NOT TRAVELLED BY CAR

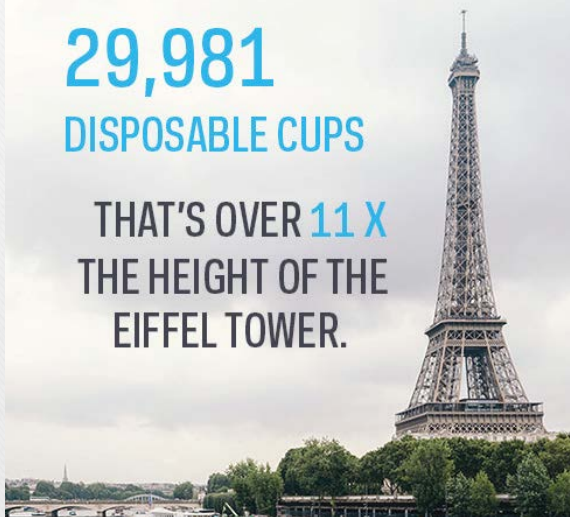
THAT'S ENOUGH MILES TO MAKE
OVER **4 ROUND TRIPS**
FROM OREGON TO ANTARCTICA.



29,981

DISPOSABLE CUPS

THAT'S OVER **11 X**
THE HEIGHT OF THE
EIFFEL TOWER.



32,795
PLASTIC STRAWS

THAT'S OVER **38 TIMES**
THE HEIGHT OF
THE SPACE NEEDLE.



Los Alamos County Teams

Team	Members	Points
Chamisa Elementary Green Team	49	4659
LAC Green Team	20	3702
Environmental Sustainability Board & Friends	5	1686
Green Aspen Tigers	8	1264
Zero Waste LA	9	1253
Educators for the Environment	1	67
Eco Friends	1	28
LA ECO	1	25
StewarvilleSW	1	25

Individual Finalists

Participant	Points
Heather Ward	985
Susan Hettinga	639
Angelica Gurule	619

2018 Event Summary

The Power of Collective Impact in Los Alamos



UP TO

6

LOCALLY SOURCED MEALS

CONSUMED



UP TO

33

WHOLE FOOD
MEALS
CONSUMED



UP TO

8

ZERO – WASTE MEALS
CONSUMED



UP TO

46

MEATLESS OR VEGAN
MEALS
CONSUMED



UP TO

4

PUBLIC OFFICIALS OR
LEADERS
CONTACTED



UP TO

47

CONVERSATIONS

WITH PEOPLE



UP TO

3

PEOPLE

HELPED



UP TO

5

DOCUMENTARIES

WATCHED

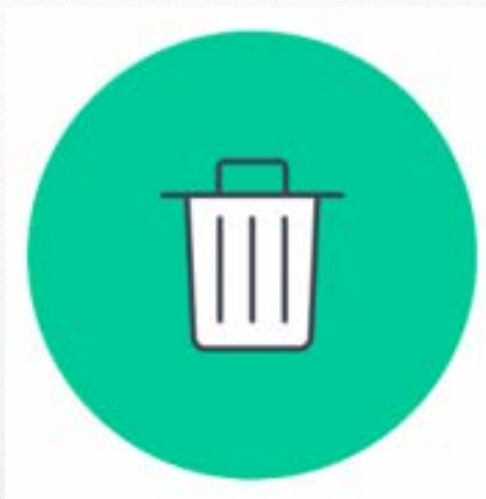


UP TO

2

COMMUNITY EVENTS

HOSTED OR ATTENDED



UP TO

245

PLASTIC BOTTLES &
CONTAINERS

NOT SENT TO THE
LANDFILL

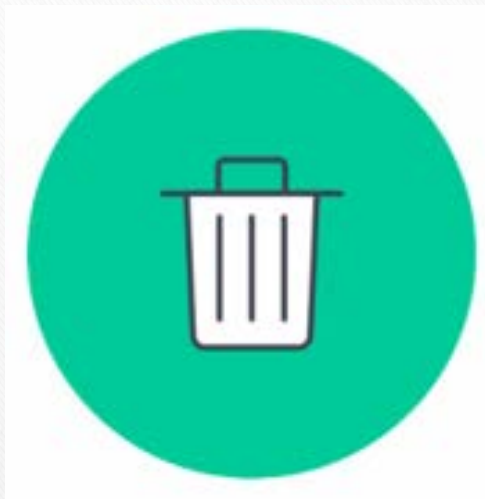


UP TO

226

PLASTIC STRAWS

NOT SENT TO THE
LANDFILL



UP TO

153

DISPOSABLE CUPS

NOT SENT TO THE
LANDFILL



UP TO

4

POUNDS OF
PAPER

HAVE BEEN
SAVED



UP TO

24

POUNDS

WASTE
COMPOSTED



UP TO

2

WASTE AUDITS
CONDUCTED



UP TO

3376

POUNDS OF CO₂

HAVE BEEN SAVED



UP TO

2

LIGHTBULBS

REPLACED



UP TO

2155

MINUTES

NOT SPENT IN FRONT OF
A SCREEN



UP TO

416

MINUTES

BEING MINDFUL



UP TO

1140

MINUTES

OF ADDITIONAL SLEEP



UP TO

3365

MINUTES

SPENT EXERCISING



UP TO

76

MORE SERVINGS

OF FRUITS AND
VEGETABLES

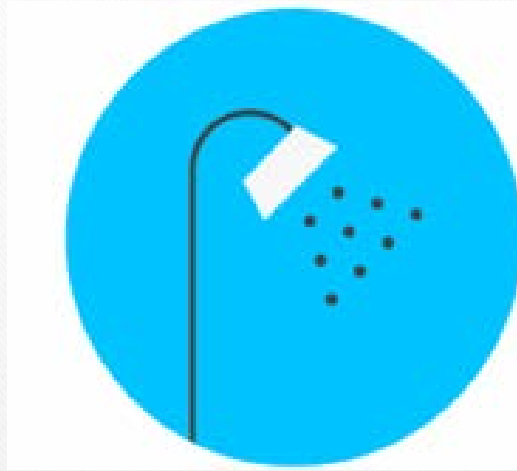


UP TO

2405

MINUTES

SPENT OUTDOORS



UP TO

881

GALLONS OF
WATER
HAVE BEEN SAVED



UP TO

26

MILES

TRAVELLED BY CARPOOL



UP TO

245

MILES

NOT TRAVELED BY CAR



UP TO

6

MILES

TRAVELLED BY BIKE



UP TO

3

MILES

TRAVELLED BY FOOT



UP TO

1881

MINUTES

SPENT LEARNING

“

NEVER DOUBT THAT A SMALL GROUP
OF THOUGHTFUL COMMITTED CITIZENS

**CAN CHANGE
THE WORLD;**

INDEED, IT IS THE ONLY THING THAT EVER HAS.

”

- Margaret Mead (1901-1978)



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Index (Council Goals):

Presenters: Lisa Bakosi

Legislative File: 11581-19

Title

Composting of Food Waste at Reunity Resources by Dorothy Brown

Recommended Action Motion

N/A

Body

ESB member, Dorothy Brown, will provide an overview of the Reunity Resources tour and how they are successfully composting food waste. Members of the Zero Waste team toured Reunity Resources and learned about how they partner with schools and restaurants to collect and compost food waste in Santa Fe, NM.

Attachments

C - Composting of Food Waste at Reunity Resources by Dorothy Brown

Composting of Food Waste at Reunity Resources in Santa Fe

Information from Reunity website and from tour on November 5, 2018

About Reunity Resources

- 501(c)3 organization with a Zero Waste goal
 - Cofounder and Executive Director Tejinder Ciano
 - Cofounder and Outreach Coordinator Julianna Ciano
- Started in 2011, collecting restaurant cooking oil to convert to biofuel
 - Keeps 500 tons CO2 out of atmosphere every year
 - Keeps cooking oil out of waste water plant
 - Reduces fossil fuel use
- Began growing food on Santa Fe Community Farm to donate to local hunger relief organizations
 - >10,000 pounds of produce donated to local food banks in 2018

About Reunity Composting Program

- Divert 1.4 million pounds of food waste from Santa Fe area landfill each year = 162,000 lb. CO₂ reduction and methane reduction
- BPI-certified compostable plastics, paper bags, trays
- Aerated static pile composting facility that produces compost from
 - Food waste
 - Green waste
 - Manure
- Partner with 30 schools (50% of SF schools – public, private, charter) and have trained staff and 8,250+ students about cafeteria compost separation
- Facilitate food waste collection from 35 Santa Fe area restaurants

Implementing the Composting Program

- Initial setup cost: \$60,000
- Some work done by community groups and community service people
- Santa Fe City has been resistant to this change
- Must be prepared to offer the full system: equipment, schedule, training, and educational reminder materials
- Schools
 - Students initially more receptive than staff, and they inspired the staff
 - Reunity does a 3-day training program with students and staff
 - Results: Reducing trash by 1/3 saved enough money to make implementation of food collection cost neutral for schools
- Restaurants
 - Some had initial resistance to participation
 - Staff turnover and occasional non-compliance necessitate occasional retraining

Food Scraps Collection

Photographs with permission of Reunity Resources

- 64-gallon roll carts
- Collect 3 times/week, swapping empty cart for full cart
- Cover immediately with mulch to prevent odors and animal visits



Composting

- 1 acre with 4-6 windrows
- Site is unlined, no leaching or runoff, acceptable to NMED
- Layer food waste, service ware, mulch, and manure
- Cap piles with finished compost – prevents odor and animal visits



Aeration of Windrows

- 6" septic field pipes with quarter-size holes run length of windrow
- Air pumped through with bouncy-house blowers
- Static piles, not turned, keeps in moisture, reduces particulates and odors
- Temperature 130-160 F
- Finished compost in 15-30 days



Worm Composting

- Worms compost finished compost from outside piles
- In heated greenhouse. Shallow circular trays, kept moist with drip irrigation



Worm Composting

Cylindrical turning separator recovers worms from compost



Worm Composting

- Final vermicompost sold in bags or by the yard
- Also used in on-site community garden to produce >10,000 pounds of produce donated to local food banks





County of Los Alamos

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Los Alamos, NM 87544
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Agenda No.:

Index (Council Goals):

Presenters: Lisa Bakosi

Legislative File: 11582-19

Title

Identification of Regional Composting Facility Sites and Its Costs by Philo Shelton

Recommended Action Motion

N/A

Body

Public Works Director, Philo Shelton will present his research project *Identification of Regional Composting Facility Sites and Its Costs*. The ESB is continuing to explore the possibility of food composting.

Attachments

D - Identification of Regional Composting Facility Sites and Its Costs by Philo Shelton

Identification of Regional Composting Facility Sites and Its Costs

Philo S. Shelton III

University of Colorado at Denver

School of Public Affairs

Capstone Project PUAD 5361

Professor Malcolm Goggin

November 30, 2015

Problem Statement and Motivation

2

- ▶ Problem Statement

- ▶ San Miguel County, including Mountain Village and the Town of Telluride, lost its composting operator.

- ▶ Motivation

- ▶ Planet Blue Grass offered \$7,500 towards the composting effort.
 - ▶ The Colorado Department of Public Health and Environment has a planning grant to help initiate a new composting facility.

Research Questions

3

- ▶ Where should a composting site be located?
- ▶ How much will it cost?
- ▶ What are the issues with composting zero-waste events' food waste?
- ▶ What are the best practices for composting?

Literature Review

- ▶ Composting Science
- ▶ Food Waste Composting
- ▶ Composting Methods
- ▶ Equipment and Facility Requirements
- ▶ Compost Materials
- ▶ Life Cycle Assessment and Environmental Benefit
- ▶ Flow Control Laws

Regulation Review

5

- ▶ Waste Management Division
 - ▶ Type I Feedstock – Untreated wood waste and yard and green waste
 - ▶ Type II Feedstock – Source separated food waste
- ▶ Class II Compost Facility
 - ▶ Facility requirements
 - ▶ Operation requirements
 - ▶ Financial assurances and plans
- ▶ Air Quality Permits
 - ▶ Volatile Organic Compounds (VOCs)
 - ▶ Particulate Matter number 10 (PM-10)
 - ▶ Best Management Practices (BMPs)
- ▶ Composting Stakeholder Process



Special Event Food Waste to Compost

Methods

6

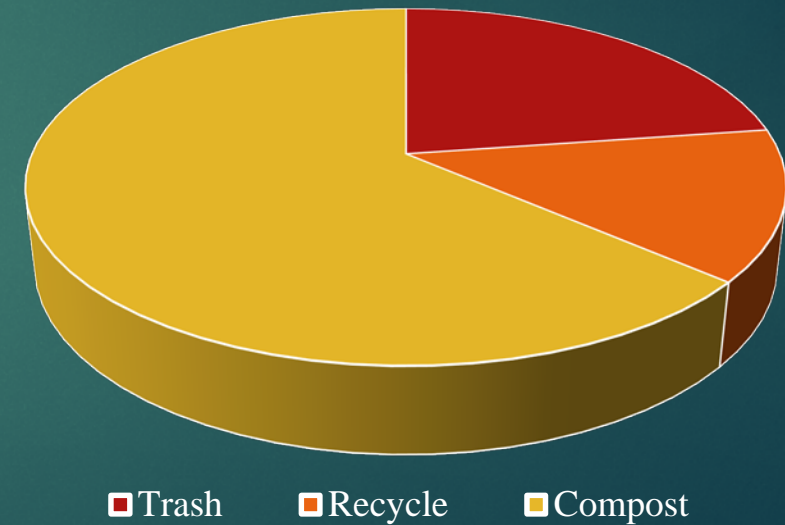
- ▶ Volunteer at a zero-waste event
- ▶ Interview Class I & II Compost Operators in Colorado
 - ▶ Capital Requirements
 - ▶ Operation and Maintenance
 - ▶ Business Factors
- ▶ Site Visits

Findings

Zero-Waste Event

- ▶ Recycled or Composted 77% of event waste by volume
- ▶ No weigh scale
- ▶ Water stations
- ▶ Volunteers
 - ▶ Assure source separated waste
 - ▶ Education

Zero-Waste Event Collection Station



Findings

Compost Operator Interviews

- ▶ Capital Requirements
 - ▶ Compacted Clay Liner
 - ▶ Equipment costs
 - ▶ Best Practices are to reduce equipment costs
- ▶ Operation and Maintenance
 - ▶ Measure wet tons of materials composted
 - ▶ Share staffing resources/Train staff
 - ▶ Windrow composting method
- ▶ Business Factors
 - ▶ 50-Mile Service Area
 - ▶ Establish tipping fees
 - ▶ Permitting costs



Windrow Composting with Turner

Findings

Site Visits

9

- ▶ Nine identified sites
 - ▶ Identify Pros and Cons
 - ▶ Narrow to three priority sites
 - ▶ Explore Composting Methods



Illium



Norwood Transfer Station



The Old Ouray County Landfill

Estimates

10

- ▶ Materials to Compost

- ▶ 13 pounds of food waste per week per household
- ▶ 300 pounds of food waste per restaurant
- ▶ 100 wet tons per week or 210 cubic yards per week

- ▶ Illium Alternative (0.5 Acre) \$1,145,604

- ▶ Equipment Cost Estimate \$795,750
- ▶ Permit, Engineering, Bond and Site Costs \$349,854

- ▶ Norwood Transfer Station Alternative (1.25 Acre) \$599,085

- ▶ Equipment Cost Estimate \$227,750
- ▶ Permit, Engineering, Bond and Site Costs \$371,335

- ▶ Old Ouray County Landfill Alternative (2.5 Acre) \$832,690

- ▶ Equipment Cost Estimate \$206,950
- ▶ Permit, Engineering, Bond and Site Costs \$625,740

Recommendations

Alternative Selection, Model, and Grants

- ▶ Norwood Transfer Station Alternative
 - ▶ Windrow composting method
 - ▶ Share staffing resources
 - ▶ Already permitted as a waste transfer station
- ▶ Hub and Spoke Recycling Model
 - ▶ Promote partnerships
 - ▶ Not duplicate services
 - ▶ Cost effective
- ▶ Grants
 - ▶ Colorado Recycling Resources Economic Opportunity Fund
 - ▶ United States Department of Agriculture

Recommendations Zero-Waste Event

12

- ▶ No aluminum foil food wrappers
- ▶ Better product labelling
- ▶ Continue to use volunteers
 - ▶ Education
 - ▶ Source separation
- ▶ Weigh materials to compost



Conclusions

13

- ▶ Use Alternative Selection Criteria
 - ▶ Costs
 - ▶ Lowest greenhouse gas emissions
 - ▶ Water quality protection
- ▶ Develop a Business Plan
 - ▶ Waste audit
 - ▶ Cost alternative
 - ▶ Rates and charges
- ▶ Maintain Partnerships
 - ▶ Community
 - ▶ Businesses
 - ▶ Flow Control



Sneffels Event Partner



County of Los Alamos

Staff Report

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Agenda No.:

Index (Council Goals):

Presenters: Angelica Gurule

Legislative File: 11583-19

Title

Draft FY20 ESB Work Plan

.Recommended Action

N/A

Board, Commission or Committee Recommendation

N/A

Body

The ESB will receive a draft FY20 Work Plan related to the department's priorities and the board's responsibilities.

Tentative Sequence for Preparation/Review of FY20 Work Plans

Dec 2018 - ESB reviewed the FY19 work plan and discussed potential items for the FY20 work plan related to the department's priorities and the board's responsibilities.

Jan 2019 - ESB receive draft FY20 work plan. Submit comments individually to Staff Liaison, Angelica Gurule

Feb 2019 - Tentative - ESB to approve and submit FY20 work plan

Attachments

E - ESB FY20 Draft Work Plan



DRAFT FY20 Work Plan for Los Alamos County Boards and Commissions

(Fiscal Year 2020: July 1, 2019 – June 30, 2020)

Board and Commission Name: Environmental Sustainability Board

Date prepared: January 11, 2019 Date approved by Council: _____
Prepared by: Angelica V. Gurule

This work plan will be accomplished in the following time frame:

From: July 1, 2019 to June 30, 2020

Chairperson: Lisa Bakosi

Term: July 31, 2019

Members and terms:

Warren Mazanec

July 31, 2020

Dorothy Brown

July 31, 2020

Vacant

July 31, 2019

Heidi Rogers

July 31, 2019

Heather Ward

July 31, 2019

Lisa Bakosi

July 31, 2020

Susan Barns

July 31, 2020

Department Director: Philo S. Shelton III

Work plan developed in collaboration with Department Director?(Y/N?) Yes

Staff Liaison: Angelica Gurule

Administrative Support provided by: Public Works Staff

Council Liaison: Unknown Reviewed by Council Liaison? Yes

DRAFT ESB FY20 Work Plan

Deleted: 19

Deleted: 8

Deleted: 19

Deleted: 2018

Deleted: 2018

Deleted: 18

Deleted: 18

Deleted: Pete Sheehy

Deleted: 19

1.0 Provide a brief Summary of your Board or Commission’s activities over the past twelve months. Please describe your Board or Commission’s accomplishments and identify constraints. List any “lessons learned” and identify the greatest challenges faced by the Board or Commission.

- Received Recycling and Illegal Dumping (RAID) grant to for LAPS Water Bottle Filling Stations and Yard Trimming Roll Carts
- Implemented Yard trimmings roll cart program to 50% of households.
- Conducted residential roll cart survey of recycling and trash carts to understand volume of material and size of roll carts in use.
- Developed Zero Waste Team
- Hosted Clean Up Los Alamos Day
- Received the following presentations:
 - At Home Composting Basics by KokHeong McNaughton
 - Food Waste Presentation by Sue Barns
 - Illegal Dumping Boots on the Ground Presentation by Joshua Levings
 - Overview of EPA Pay As You Throw Webinar by Sue Barns
 - Repurposing Discarded Items Presentation by Mark Devolder
 - Recycle Coach Presentation by Tiffany Pegoda
 - Waste Zero Overview by Sue Barns
- Supported first Zero Waste event at PEEC, Bear Festival Buffet, 2018 October EcoChallenge
- Toured ReUnity Resources, Food Composting Facility in Santa Fe, NM
- Awarded Business and Educational Institute Recycler of the Year
- Co-Sponsored the Recycle Fair & Fashion Show with Los Alamos Public Schools in celebration of America Recycle’s Day
- Discussion items included:
 - Installation of Sunflower Art Piece by Ed Grothus at the Transfer Station
 - Los Alamos Eco Club regarding the progress of the plastic bag tax.
 - Environmental Services Quarterly Financial Updates
 - Closed landfill methane issues and remediation progress
- Conducted education and outreach activities at the following events:

- Deleted:** <#>Completed RFP language for Incentive Based Program to promote recycling and public transportation¶
- Deleted:** <#>develop Zero Waste Lunch Video Campaign with LAP
- Deleted:** <#>S
- Deleted:** <#>Received Federal grant assistance from NM Game and Fish to purchase Bear Tough roll carts and Bear Tough dumpsters.¶
- Presented final recommendation to County Council and New Mexico Recycle Coalition (NMRC) for the Brush and Bulk Item Collection Program,
- Deleted:** <#> including y
- Deleted:** <#>Developed implementation plan for yard trimmings (brush) roll cart program¶
- Deleted:** <#>audit (“waste sort”) of
- Deleted:** <#>solid waste
- Deleted:** Created definition of “environmental sustainability”
- Deleted:** Hosted
- Deleted:** on: Energy Sustainability and Carbon Neutrality of LAC Buildings, Famine to Feast, Project Green Challenge, GEM*STAR Subcritical Reactor, Fancy Fiddle Auction, bear issues, Waste Expo Conference
- Formatted**
- Formatted:** Font: 12 pt
- Formatted:** Indent: Left: 1", No bullets or numbering
- Deleted:** <#>Updated and approved LAC Environmental Sustainability Plan¶
- Co-hosted tour of Friedman Recycling facility¶
- Deleted:** <#>LAC Compost Operation and presentation from Solutions (food composting company)
- Deleted:** Non-Profit
- Deleted:** awards
- Deleted:** Discussed
- Deleted:** Bear/wildlife issues, including proposed Wildlife Ordinance
- Formatted:** Space After: 10 pt
- Formatted:** Font: 12 pt
- Deleted:** <#>Environmental issues regarding CIP projects¶
- “Save-As-You-Throw” (tiered rate structure for residential trash collection)¶
- Electronics recycling¶
- Food waste prevention and diversion (composting)¶
- Construction and demolition recycling opportunities¶
- Implementation plan for yard trimmings (brush) roll cart program¶
- Solar System Technology at Eco Station¶
- Proposed and implemented a rate change for Environmental Services ¶
- Deleted:** 19

ESB FY19 WORK PLAN

- Science Festival
- Earth Day Festival
- Bear Festival
- Bike-to-Work Week
- Farmer's Market

Deleted: <#>County Fair Event¶
Co-op Market Anniversary Celebration¶
LAC Green Team Event¶

2.0 Describe the future work plans for this Board or Commission using the following items and showing the relationship to those items: (Please remember that Council approval of this work plan does not constitute official Council approval of proposed projects, assignments, or anticipated recommendations included in this work plan that have budget implications.)

Deleted: <#>Recruited two new ESB members: Heidi Rogers and Heather Ward¶
Co-Sponsored EcoChallenge¶

2.1 List any special projects or assignments given to this Board or Commission by Council or the Department director:

- Host annual LA Clean Up Day
- Continue researching Save-As-You-Throw
- Research and develop rates to balance budget for Environmental Services operations
- Implement education and outreach software solution to reduce recycling contamination and educate residents on Environmental Services programs
- Contribute, as appropriate, to the implementation of the Yard Trimmings Collection program (3rd bin for organic yard trimming material)

Deleted: incentive based

Deleted:

Deleted: <#> such as Recycle Bank to boost diversion and local economy¶

Deleted: <#>new

Deleted: <#>brush material

Deleted: <#>Research feasibility and cost impact of donating free loads to community members¶
Research feasibility and cost of quarterly clean-up days¶

2.2 List the guiding documents/plans (with approval or revision dates listed) used by this Board or Commission.

- Environmental Sustainability Initiative
- Environmental Sustainability Plan – Approved by ESB December 2017
- Environmental Sustainability Board Work Plan
- Los Alamos County Transfer Station Operation Plan

Deleted:

2.3 Other projects/assignments proposed by the Board or Commission: (Any projects or activities proposed in this section should be discussed with the Council Liaison prior to listing it in this work plan.)

- Implement and promote Software for Recycling Educational Services (i.e. Recycle Coach/Recycle Bank)
- Update Environmental Sustainability Plan
- Research and become knowledgeable of Project Drawdown in support of carbon reduction goals.
- Launch Food Waste Prevention Campaign focusing on food prevention, food rescue, and food recovery.
- Promote back yard composting for food waste diversion
- Participate in Bear Festival and other educational outreach to promote bear safety awareness
- Develop and implement environmental education and outreach materials and distribute to customers
- Monitor composting program
- Host Business and Educational Institute Recycler of the Year Contest
- Further develop partnerships with organizations such as PEEC, LAPS, and UNM-LA
- Work with LAPS to educate and implement waste diversion programs including Zero waste lunches, reduce, recycle, reuse and composting
- Continue researching other glass recycling options
- Host Recycle Fair and Fashion Show
- Investigate potential for food waste collection

Moved (insertion) [1]

Moved up [1]: <#>Promote back yard composting for food waste diversion¶

Deleted: <#>Research Save-As-You-Throw¶
Conduct two residential trash sorts to understand how well Yard Trimming Program is working to divert material from the landfill¶
Expand and improve

Deleted: <#>Non-Profit

Deleted: <#>award

Deleted: <#>Develop Utility Bill Information Letters¶

Deleted: <#>and potentially expand

Deleted: <#>and form a committee of community partners to host/sponsor the event ¶
Host workshop to create sustainable gifts and/or artwork¶

Deleted: 19

ESB FY19 WORK PLAN

- Continue to investigate Waste to Energy Methods
- Promote and participate in EcoChallenge

3.0 Identify any interfaces for the goals/tasks in this work plan with County Departments and other Boards and Commissions. Specify the coordination required.

- Continue to nurture and strengthen relationship with BPU and DPU to support energy and water conservation.
- Partner with Parks and Recreation Board on sustainability issues regarding CIP projects.
- Continue outreach to other county boards and commissions regarding environmental sustainability.
- Liaison with Tourism Implementation Task Force, as needed.
- Interface with Tourism group on environmental impacts of increased tourism.

4.0 List any special public information or involvement meetings or efforts to be conducted by this Board or Commission:

The ESB will sponsor the events with an asterisk* and will host outreach and educational booths at the other events listed below to educate, share information, and solicit input from LAC residents and customers. The ESB will provide prior notification to the public utilizing a minimum of one media platform such as but not limited to: Facebook, press release, LA Daily Post paid advertisement, Environmental Services website, LA Monitor paid advertisement, KRSN interview or advertisement, Bill insert, Newspaper insert, LAVA Flyers, and/or County Line Newsletter. The ESB may also utilize County Open Forum Survey as a resource to solicit public input. The cost for the ESB public outreach efforts is budgeted in the Environmental Services budget.

- Earth Day Festival
- Bear Festival
- Summer Concerts
- Green Team Event*
- County Fair Event
- Science Festival
- Chamber Festival
- Farmer's Market (2 events)
- Recycle Fashion Show*
- Eco Challenge*

Deleted: <#>Investigate diversion opportunities for construction and demolition debris. ¶

ESB FY19 WORK PLAN

- Zero waste, recycling and/or composting workshops or lectures at PEEC and Los Alamos clubs*

5.0 List the current subcommittees for this Board or Commission.

5.1 For subcommittees with members that are not members of the parent board or commission: List the subcommittee members and their terms.

Explain how sub- committee members are selected or appointed.

Provide a description of each subcommittee's charter or purpose.

Describe the expected duration for the subcommittee and their work plan(s) demonstrating how they support the Board or Commission:

Work Plan:

Deleted: <#>Save-As-You-Throw Subcommittee¶
Los Alamos Public School Subcommittee¶
Wildlife Subcommittee¶

Deleted: Save-As-You-Throw Subcommittee:¶
Heidi Rogers, Heather Ward, Susan Barns (7/31/18), Sandra West (community volunteer), Alexis David (community volunteer), Angelica Gurule (Staff Liaison)¶

Deleted: The non-board members volunteered and expressed interest to help with this effort, no appointment or selection was made.¶

Deleted: Purpose: Investigate tiered rate structure for residential trash collection ("Save-As-You-Throw") to promote equity, balance budget and incentivize waste reduction.

Deleted: Duration: 1 to 1.5 yrs.

Deleted: FY18 ESB Work Plan

Attachment A: Provide a copy of your Board or Commission's "Purpose" and "Duties and Responsibilities" from Chapter 8 of the County Code:

- **Sec. 8-231. - Purpose.** The environmental sustainability board is established to serve as the central point of contact for environmental sustainability issues and as an advisory body to the county council on environmental sustainability issues.

(Ord. No. 02-078, § 2, 10-3-2006; Ord. No. 02-094, § 2, 6-10-08)

- **Sec. 8-232. - Membership, terms and qualifications.** The board shall consist of seven members. The members shall serve for staggered two-year terms beginning on August 1 and ending on July 31, except that three members on the initial board shall only serve for one-year terms.

(Ord. No. 02-078, § 2, 10-3-2006; Ord. No. 02-094, § 3, 6-10-08)

DRAFT ESB FY20 Work Plan

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ESB FY19 WORK PLAN

- **Sec. 8-233. - Duties and responsibilities.** The environmental sustainability board shall serve in an advisory capacity to the county council and shall have the following functions, responsibilities and duties:
 - (1) Gather and provide citizen input to staff and council on ways to improve the county's environmental sustainability and on proposed environmental sustainability policies, programs and services. For this purpose, the board shall gather public input in ways appropriate to the circumstances.
 - (2) Recommend ways to involve and educate the community on environmental sustainability issues. Review and comment on public involvement and information plans (PIIPs) related to environmental sustainability projects outside the department of public utilities.
 - (3) Review and comment to council on environmental sustainability master plans.
 - (4) Review all environmental sustainability related matters submitted to the board by council.
 - (5) Coordinate with other boards as appropriate on environmental sustainability activities.
 (Ord. No. 02-078, § 2, 10-3-2006; Ord. No. 02-094, § 4, 6-10-08)

Attachment B: Using the chart below, place an X in the column on the right if the Council Goal is related to the work of the Environmental Sustainability Board

Mark all that apply

Economic Vitality	
Economic Vitality:	
• Priority Area – Build the local tourism economy	
• Priority Area – Promote vitality in our neighborhoods and downtown areas and eliminate blight in Los Alamos and White Rock as part of an overall property maintenance and beautification effort.	X
• Promote a strong and diverse economic base by encouraging new business growth.	
• Collaborate with Los Alamos National Laboratory as the area's #1 employer.	X
Financial Sustainability	
• Encourage the retention of existing businesses and assist in their opportunities for growth	X
• Support spinoff business opportunities from LANL	
• Significantly improve the quantity and quality of retail business	
Quality of Life	
Housing:	
• Priority Area -- Support development of affordable workforce housing.	
• Promote the creation of a variety of housing options for all segments of the Los Alamos Community, including infill opportunities as appropriate.	
Education:	
• Support Los Alamos Public Schools' goal of ranking among the top public schools in the nation	

ESB FY19 WORK PLAN

<ul style="list-style-type: none"> Partner with Los Alamos Public Schools and the University of New Mexico – Los Alamos; and support, as appropriate, the delivery of their educational services to community standards 	X
<u>Quality Cultural and Recreational Amenities:</u>	
<ul style="list-style-type: none"> Priority Area – Maintain and improve existing outdoor recreation and open space amenities. 	
<ul style="list-style-type: none"> Implement a comprehensive range of recreational and cultural amenities that enhance the Los Alamos community 	
<u>Environmental Stewardship:</u>	
<ul style="list-style-type: none"> Enhance environmental quality and sustainability balancing costs and benefits including County services and utilities 	X
<u>Mobility:</u>	
<ul style="list-style-type: none"> Maintain and improve transportation and mobility 	

Quality Governance	
<u>Operational Excellence:</u>	
<ul style="list-style-type: none"> Priority Area – Continue implementation of the Comprehensive Plan with an emphasis on neighborhoods. 	
<ul style="list-style-type: none"> Priority Area – Maintain and improve existing quality essential services and supporting infrastructure including updated enterprise software and permitting. 	X
<ul style="list-style-type: none"> Invest in staff development to create a high performing organization 	X
<ul style="list-style-type: none"> Manage commercial growth well following an updated, concise, and consistent comprehensive plan. 	
<ul style="list-style-type: none"> Establish and implement a mechanism for effective Utility policy setting and review. 	
<u>Communication:</u>	
<ul style="list-style-type: none"> Improve transparency in policy setting and implementation. 	X
<ul style="list-style-type: none"> Create a communication process that provides measurable improvement in citizen trust in government. 	X
<u>Intergovernmental Relations:</u>	
<ul style="list-style-type: none"> Strengthen coordination and cooperation between County government, LANL, and the regional and national partners. 	
<ul style="list-style-type: none"> Actively pursue land transfer opportunities. 	



County of Los Alamos

Staff Report

January 17, 2019

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:

Index (Council Goals):

Presenters:

Legislative File: 11584-19

Title

December 2018 Residential Sustainability Report

Recommended Action Motion

N/A

Body

The ESB will review and discuss the December 2018 Residential Sustainability Report. The data now includes more data and graphs that will demonstrate overall diversion as a result of the new yard trimming program which began on July 9, 2018.

Most recent additions to the report include greenhouse gas emissions reduced by recycling and composting.

Attachments

F - Residential Sustainability Report - December 2018



Residential Sustainability Report

Service Period: December 2018

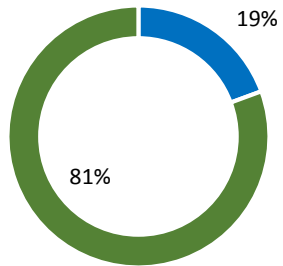


LOS ALAMOS

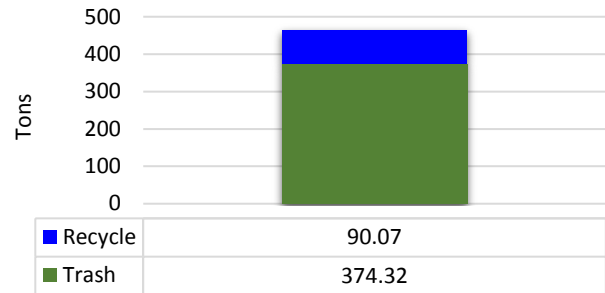
December Diversion Rate: **19%**

The *diversion rate* is the percent of recyclable and compostable material diverted from the landfill.

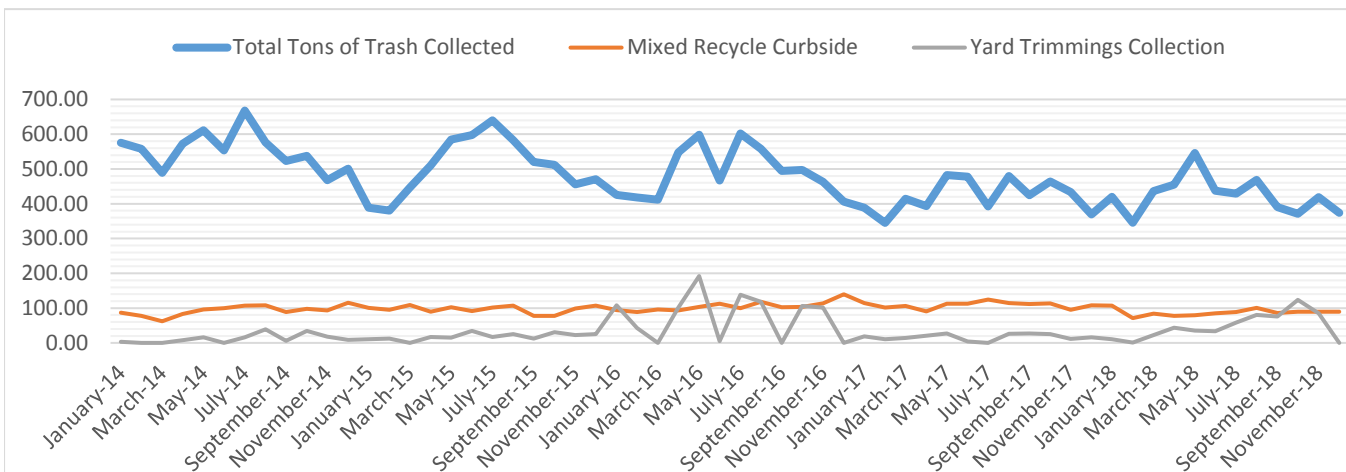
Monthly Collection Report



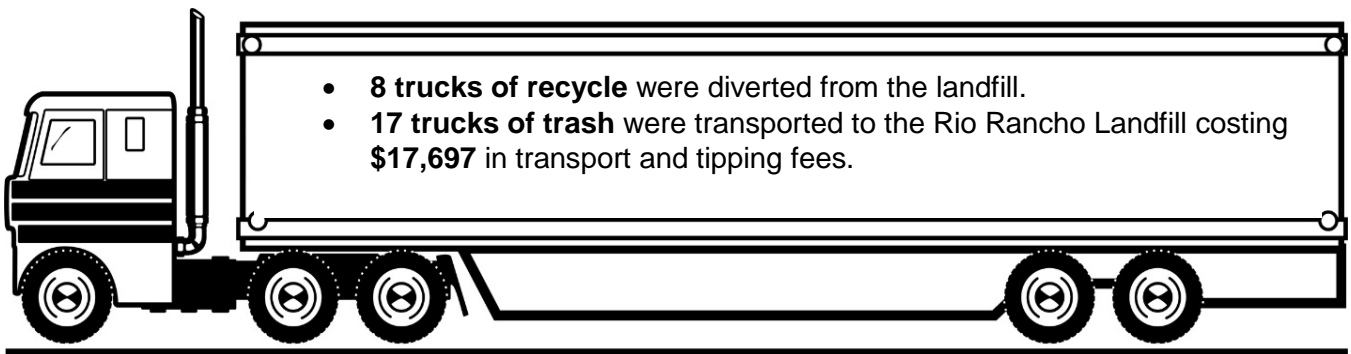
■ Mixed Recycle Curbside ■ Trash Residential Collection



In December by recycling and composting Los Alamos County reduced CO2 emissions by ~309.84 tons



In 2018 by recycling and composting Los Alamos County reduced CO2 emissions by ~4726.91 tons



For more information contact Environmental Services Division at 505.662.8163 or email solidwaste@lacnm.us