Overview



Tetonia / Felt / Alta (North) Thursdays

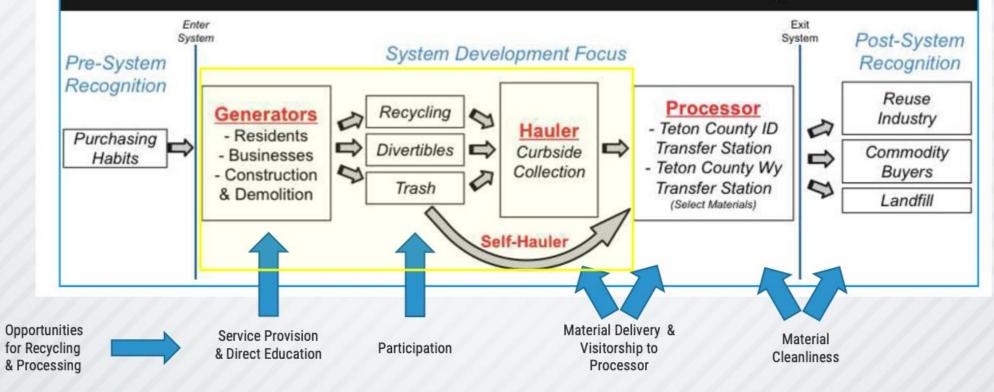
Teton County Solid Waste System & History

About & History

Teton Valley Waste System

SYSTEM OVERVIEW | How Does Waste Move On...

Interface of Our Waste System



What is the Value?

Landfill or Divert & Recycle

Landfill

Immediate Expense – Spend taxpayer money putting waste in a hole

Future Expense - Liability for cap, closure, risk of contamination or failure

Divert & Recycle

- ✓ Achieves Community Goals
- ✓ Creates Local Jobs
- ✓ Reduces Landfill Liabilities
- ✓ Improve Environmental Impact
- ✓ Create Grant \$ Opportunities

About Our Transfer Station

Areas & Infrastructure

Scale House & Office Green Building – Landfill Bound Waste (LBW) Crew Building Recycling Area Acceptance (Green bins) Recycling Center – Processing & Storage Diverted Materials Areas – East Side C&D "Pit" Landfill – Northeast

Current Material Management

 37% of our waste stream is <u>NOT</u> sent to the landfill, its either diverted for other purposes or it sold as recyclable and has revenue CONSTRUCTION

C&D PIT

TREATED LUMBER

RAILROAD TIES

HOUSEHOLD

GARBAGE

NO PLASTIC BAGS

CONSTRUC

History & Timeline: Solid Waste & Transfer Station



<mark>2008 - 2011</mark>

- ~8% Diversion Rate; Rad curbside founded
- Hole in the floor of the recycling center not operable
- All divertible/recyclable materials were stored outside in divided spaces in the area of the C/D pit when it was to the north of the green building
- With advent of RAD, Floor Fixed & first baler purchased Grant Supported!
- Self-haul Recycling area and drop off bins on transfer station campus

2015

• RAD earns County & City Waste Collection Contract & <u>Diversion Plan is adopted</u>

2015-2024 - Stand Out Events

- Eclipse & Covid
- Implosion of the recyclable Materials market & Elimination of Materials
- FIRE @ Transfer Station!
 - Failure by the previous Landfill Waste Hauler to remove waste from building
 - RAD 20yd & 30yd dumpsters used for LBW storage
 - C&D Diversion Statistics ref. "Turning trash to Treasure"
 - RAD Begins Hauling Waste & Earns 3-year Contract
- Exponential Community Growth & Development
- AVOIDED \$6million Expense renovating the Transfer Station Avoided
 - Proposed renovations did not include recycling, but 30%+ recycled or diverted
- Grants Earned
 - Baler upgrade
 - C&D Sorting Educational & Video project focused on general contractors
 - C&D Sorting Pad ref. "Trash to Treasure"

<mark>2025</mark>

37% Diversion Rate; ~15 jobs created, and 46,000 tons diverted or recycled

2021-2023: Turning Trash to Treasure!

Grants & Infrastructure Improvement

2021: Fire at Transfer Station

...

Teton County Idaho October 7, 2021 · ③ TRANSFER STATION OPERATIONS UPDATE

Due to a fire on Monday September 13, 2021, the Teton County Transfer Station is still operating under slightly modified operations.

All materials are being accepted except for construction and demolition material that are mixed with household trash and therefore cannot go into the construction and demolition pit. Regular household garbage, recycling, construction and demolition material, brush and lumber, scrap metal, yard waste, manu... See more







It's no mystery that Teton Valley is growing and that construction & demolition (C&D) material is flowing to the Transfer Station at an unprecedented rate. A recercit <u>Teton Valley</u> News article reported on some of the problems created by the high volumes of unsorted C&D waste that is being brought to the Transfer Station during the current building boom. Contractors on a tight timeline toss everything into one dumpter rather than sorting into divertible ples such as dimensional lumber, metal, drywall, etc. and pass the added expense on to the buyer. Sorting saves resources and saves money, but when time is at a premium, speed trumps responsible sorting on a job site.

TVCR's solution to the C&D situation is to help the county build a facility which will allow Teton County to divert up to 70% of unsorted C&D waste for recycling, reuse, or compositing. As such TVCR applied for an islaho Department of Environmential Quality (DEQ) Source Material Management grant and vas recently awarded \$80,000 to pay for the majority of a Construction and Demolition Waste Sorting Facility.

2023: \$80k Grant = C&D Sorting Pad

December 26, 2023 at 1:29 PM · 😋

Construction of the new sorting pad at Teton County Solid Waste Transfer Station has completed and operation will begin on January 2, 2024. At that time, incoming loads that contain un-sorted materials (loads of materials not sorted, by the hauler, prior to arrival at the transfer stationr) will be directed to the sorting pad where Teton County staff will sort the materials. Loads directed to the sorting pad (because the hauler chose to have Teton County do the sorting) will be charged at \$350(ton.

Materials which can be diverted at the transfer station include scrap metal, dimensional lumber and concrete. Loads which contain other construction and demolition material will be charged \$120/ton and will continue to go into the Transfer Building. Pre-separated and sorted materials will continue to be charged at \$15/ton.

Please visit our website for more information on sorted materials tetoncountyidaho.gov

#tetoncountyidaho #tetoncountyid #TetonValleyID #tetonvalleyidaho #recycle #bestviewofthetetons



TVCR Blog: https://tetonrecycling.org/county-transfer-station-awarded-80k-grant/



Has Diversion been Successful?

	This sheet shows the value of increasing the diversion rate and the projected total tonnage that can be diverted from the landfill over a ten year period. Data is updated with the annual Teton County FY Materials Report							•						
	I	Prior to RAI)				RA	\D						_
Fiscal Year (10/1-9/31)	2013	2014	2015 - first year with most accurate data	2016	2017	2018	2019	2020	2021	2022	2023	2024	Totals	
Total Tons Accepted @ Transfer Station	6,948	8,124	8,585	9,652	10,279	11,231	12,334	12,645	14,727	17,284	20,000	20,104	136,841	
Landfill Bound Waste (LBW) Tons	5,345	5,882	6,188	6,565	7,108	7,377	8,202	8,577	10,029	11,221	12,700	12,701	90,669	
Diverted or Recycled Tons	1,603	2,242	2,397	3,087	3,171	3,854	4,132	4,068	4,698	6,063	7,300	7,403	46,172	
Commodity Diversion Rate **	23.1%	27.6%	27.9%	32.0%	30.8%	34.3%	33.5%	32.2%	31.9%	35.08%	36.5%	36.8%	33.7%	10 yr /

Destination of Material FY2024	
Destination Tons	37%
Shipped to Circular Butte 12701.1	Diversio
Sent out for Recycling 637.35	Rate in
Remaining onsite (To be Recycled, Reused, Composted, or	2024
placed in C&D) 6765.46	
Shipped to Circular Butte12701.1Sent out for Recycling637.35Remaining onsite (To be Recycled, Reused, Composted, or	Diver Rate 2024

)n

\$361,000 in Landfilling Cost-Avoidance in FY24

- Avg Semi to Landfill carries 20.5 tons & Costs ~\$1000
- If 7403 Tons were diverted or recycled (did not go to the landfill)
- 7403 / 20.5 = 361 Semi Loads not sent to the landfill
- 361 * \$1000 = \$361,000 not spent on Landfilling

Overview

Transfer Station Revenue & Budget

Executive Summary

FY25 Revenue of Solid Waste \$3.1 Million

~\$900,000 - Solid Waste Fee Collected in Property Tax:

Collected in Property Tax, these monies pay for having the physical assets of the Teton County Transfer Station. Such costs as the bond payment for owning the Transfer Station Property, its buildings, equipment, and future infrastructure planning. Owning any property has cost, which typically includes general property repairs, maintenance, infrastructure replacement, improvement, etc. This fee also covers managing and monitoring the closure of the old Teton County landfill.

~\$2,000,000 Tipping Fees @ Scale

This is the fee paid when crossing the scales at the Transfer Station. These fees cover operational costs to process the waste as it comes across the scales such as labor, fuel, equipment, repairs and maintenance as well as the transportation to and disposal at the landfill.

~\$150,000 - Recycling Revenues From Material Buyers

These revenues *could* be identified to subsidize or legitimize the expenses for managing the recyclable materials such as labor, equipment and processing.

~\$48,000 - RAD's Franchise Fee

On a quarterly basis, RAD pays Teton County \$10/ton of landfill bound waste Paid from RAD to Teton County quarterly.

FY25 Projected Budget ~\$4 million

2025 TCSW Propsed Budget

Sub Total Payroll & Employee Benefits	\$876,558	
SubTotal Insurance	\$27,180	
SubTotal Equipment Leases	\$37,000	Review for Purchase / Debt / Asset ownership value
SubTotal Operating Expense	\$180,000	Reducible by \$30,000
Material Disposal Expenses	\$1,455,161	\$85,000 of this could be to own/pay for our own wood chipper
SubTotal R&M	\$37,000	Total Equip, any equipment on lease repair contract - CAT
SubTotal Utilties	\$10,400	Solar Panels & Grants Opportunities
SubTotal Balance Sheet / Capitol / SWF Assoc Expense	\$1,128,000	90% of this is the 2nd Scale, Scale house & Team Building
Sub Total Contracted Services -	\$239,877	
Total TCSW Presented Budget	\$3,991,176	

FY25 Projected Budget

Opportunity for Positive Cash Flow?

FY24 Actuals vs. '25'	TCSW vs. '	25 RAD	
	2024 Actuals	2025 Proposed	2025 RAD Adj.
Total Solid Wate Revenue	\$3,073,412	\$3,100,000	\$3,100,000
Total Budget	\$2,506,493	\$3,991,176	\$2,718,775
Net or Carry Over	\$566,919	-\$891,176	\$381,225
		With Scale	Without Scale, with \$250,000 lease
SW Enterprise Start Balance		\$1,289,825	\$1,289,825
SW Enterprise End Balance		\$398,649	\$1,671,050

What are the current core Financial Decisions ?

What options best align with community goals?

X \$891,000 *OVER* FY25 Revenue

OR

✓ ~\$250,000 in cash flow

If Diversion generates ROI

Invest \$ into diversion increasing infrastructure, equipment or material processing equipment that will generate ROI in the mid and long term

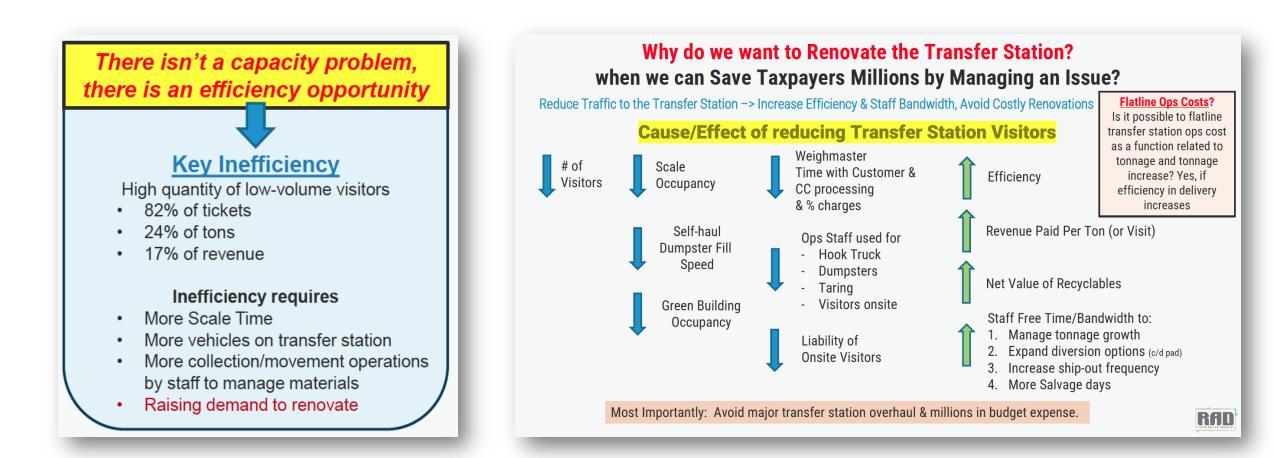
10-year Vision for Upgrades & Expansion Adopt a long term CapEx Plan for select equipment & Infrastructure



What is the driving force of Renovation?

What are the equitable options?

+60% of Visitors pay between \$1-\$5. This is the driving force behind a multi-million \$ renovation? Is that equitable?



Fundamental Concern

→ Improve Material Processing Efficiency & Capacity <u>BEFORE</u> Increasing Visitor & Material Flow

- <u>Our current single scale is a safety valve</u>, the green building is already congested
- Material processing & space for traffic is not adequate to handle increased volume.
- Increased visitor volume & Material delivery will cause the need to Overhaul & restructure the campus with additional visitors on the campus



Transfer Station System Operations Audit

Performance Period: 2020 - 2021 | Total Construction Cost: N/A (No Construction) | Client: Teton County ID | Driggs. ID

With capacity issues and overcrowding of the solid waste transfer station facility, Teton County hired Great West to conduct and system operations audit. The assessment included site observations and calculations to ascertain performance metrics, equipment efficiencies, and capacity analysiss. The assessment included capital improvement costs along with recommendations for various upgrades to the transfer station including adding a second scale and a new crow building.



Great West Recommendations for Improvements to the Telon County Transfer Station

East Idaho Solid Waste District

Fundamental Conflict of Interest

East Idaho Solid Waste District Landfill

Teton County is partners in EISWD. The landfill budget is predicated on tons hauled, delivered, and buried.

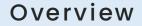
CONFLICTED WITH

Teton County Diversion Commitment & Value

Teton County's proven valuable community goals of diversion and recycling.

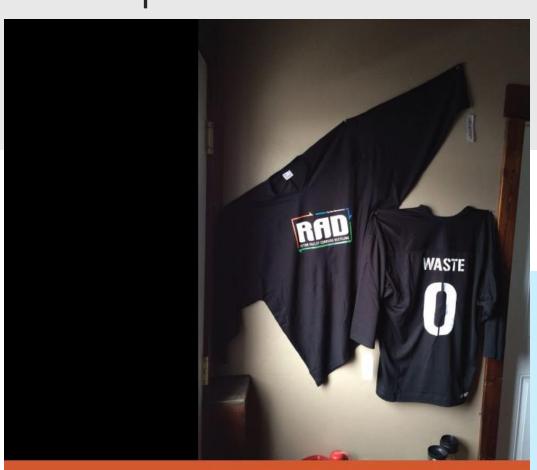
Teton County needs to reaffirm our community goals and commitment & understand the dynamic of the path forward.

Suggest that the EISWD adopts a diversion plan?



RAD Operations Management

Executive Summary



Diversion Plan & Diversion Metrics & Values Model



Achieve Community Goals Align Operational, Financial & Diversion Objectives

- ✓ Collaboratively Complete the Diversion Plan
- ✓ 5,10 & 20-year Goal-Oriented Plans based on:
 - + Community Needs
 - + Operation Efficiency
 - + Diversion Goals
 - + Financial Transparency

✓ Equitably Reinvest in ROI Generating Processes

Assess Community Growth

The Root Cause of Needs, Demands & Planning

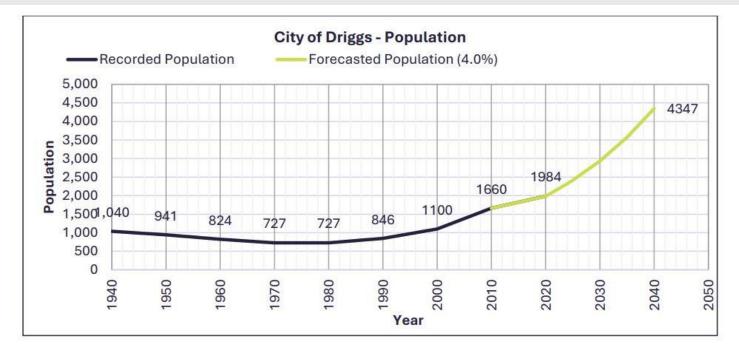


Figure 2 - City of Driggs Population

Using the 4.0% compound annual growth rate, it is projected that Driggs will have a population of 5,289 in 2045, the 20-year planning horizon.

Proactive Diversion & Waste System Planning is ESSENTIAL

- Waste growth continuing at a ridiculous pace C/D Waste most significant
- Near Term...Residential Waste Growth will increase as newly developed housing is occupied

New Waste Characterization Study

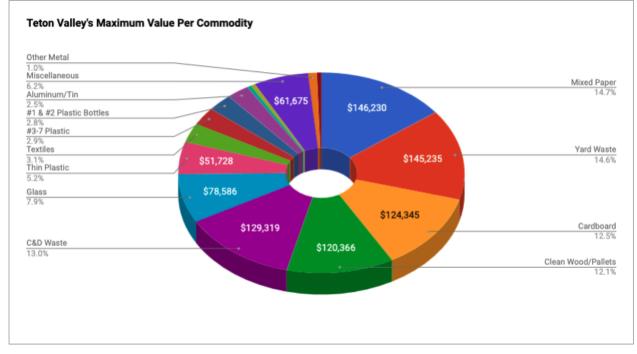
We need to know what is possible to divert & it's value!

Maximum Projected Value of Diversion

SUMMARY:

This sheet shows an estimated waste composition based on comparable waste composition audits. The categories include divertible commodities, percentages of each material, and their potential maximum values. Percentages used are based on Ada County's Waste Audit, Jackson's MRF Feasibility Study and the Wyoming Waste Study.

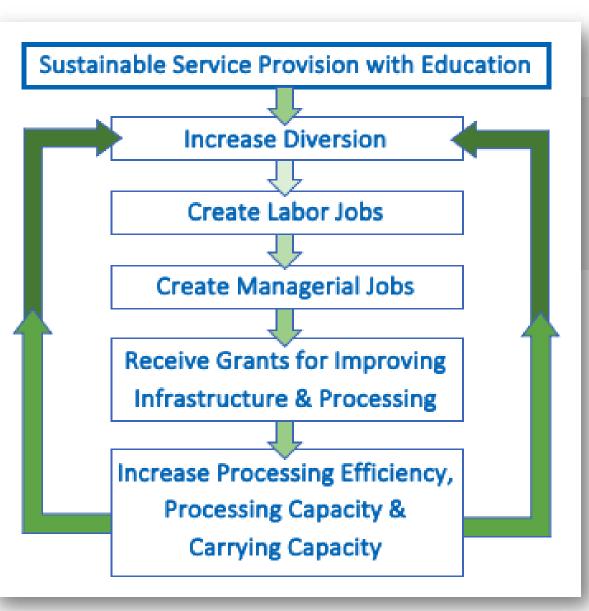
Financial Opportur	nity at Maxir	num Dive	ersion	
otal Tons at Transfer Station in	2024	20,104]	
Commodity	Est. Commodity Mix*	Estimated Tonnage	Weighted Avg. Cost-Savings per Ton	Financial Opportunity
Food Waste	15.8%	3,176	\$49.48	\$157,172
Mixed Paper	14.7%	2,955	\$49.48	\$146,230
Yard Waste	14.6%	2,935	\$49.48	\$145,235
Cardboard	12.5%	2,513	\$49.48	\$124,345
Clean Wood/Pallets	12.1%	2,433	\$49.48	\$120,366
C&D Waste	13.0%	2,614	\$49.48	\$129,319
Glass	7.9%	1,588	\$49.48	\$78,586
Thin Plastic	5.2%	1,045	\$49.48	\$51,728
Textiles	3.1%	623	\$49.48	\$30,838
#3-7 Plastic	2.9%	583	\$49.48	\$28,848
#1 & #2 Plastic Bottles	2.8%	563	\$49.48	\$27,853
Aluminum/Tin	2.5%	503	\$49.48	\$24,869
Electronic Waste	0.5%	101	\$49.48	\$4,974
Tires	0.5%	101	\$49.48	\$4,974
Miscellaneous	6.2%	1,246	\$49.48	\$61,675
Other Metal	1.0%	201	\$49.48	\$9,948
Hazardous Waste	0.5%	101	\$49.48	\$4,974
		Opport	\$994,761	



Focus on Strategy & ROI

Diversion isn't just about landfill avoidance; it's about protecting longterm taxpayer investment and reducing landfill liability.

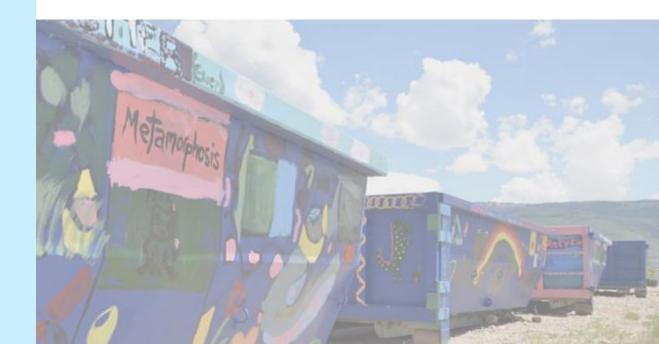
- Avoid \$5–7M in landfilling costs over 10 years
- Create jobs and build infrastructure
- ✓ Scale diversion to 65%
- ✓ Preserve public control & oversight
- Design a system that benefits people, not just process



- ✓ Teton County Keeps Control of
 - Tipping Rates paid at the scale
 - Public Access & Hours
- Mitigate Increases to Tip Rates & the Solid Waste Fee
- Enhance technology improving scale & pay flow
- ✓ Improved Educational Outreach to ensure informed behavior change to recycle and divert

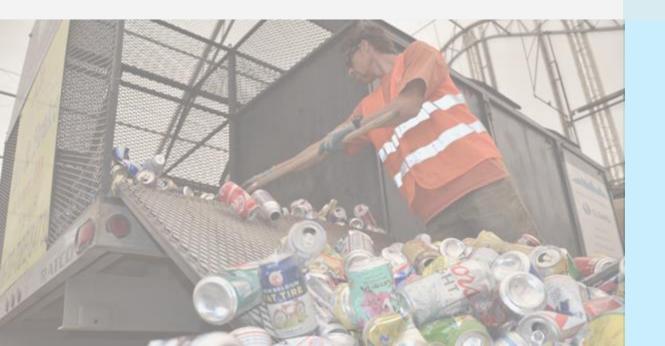
Public Impact

Preserve & Enhance User Experiences



Staff Impact

Autonomy & Improvement



- ✓ Keep all employees
- ✓ Increase Base Hourly Pay
- Add ~\$30k in Diversion-based incentives
- Maintain equivalent benefits Health, Dental, Vision, Aflac, 401k with Matching %
- Maintain Supervisor & Staff Autonomy
- Provide additional resource support!
- Reduce decision-making timelines

Teton County Impact

Additional Benefits

 ✓ Increased Financial Transparency (Revenue over COGs, Expenses, Asset Investments)

- ✓ Reduced Risk & Payroll/Benefit Liabilities
- ✓ Reduced Administrative Responsibilities



A RAD Approach

Objectives & Values



- ✓ RAD to provide a detailed financial model
- Maximize Capabilities via Private business financial structure
- Savings by reducing government timeline decision making (Time = \$)
- RAD Compensation Base Compensation + Performance Bonus %
- Teton County Revenue Base Lease Agreement
 + Performance Bonus % (RAD to Encourage Additional Infrastructure Reinvestment)
- ✓ Solid Waste Revenues (SWF, Tip Fees, Recycling Material Revenue, Franchise Fees) would be retained or redirected to the RAD Account
- RAD would be responsible for all accounting on an agreed upon interval (monthly, quarterly, annually)

Opportunities for Discussion

Staff

Hourly Compensation Increase Diversion Incentive Adequate Team Building

Visitor Operations

Overwhelming Scale Traffic Scale time efficiency -> tech improvements Overwhelming Green Building Traffic Congestion - in / out & green building

Infrastructure

Roads and Road solidification Garage Doors -- Roll UP Doors, not panel door!!!!

Processing

Weighing in/out of landfill-bound semis

No HHW Management

No Propane tanks and Bear Spray

Too Many touches on Recyclables

Contractor Dependence for Mechanic, grinding, recycling hauling

Insufficient C/D Pad size & function

Storage

Not enough Recyclables Storage -> Dry Vans Diverted Materials Storage

Equipment

Redundancy Backup Equipment for each type Equipment Maintenance

Ops Space

Fridge / Freon Mgt Zone Electronics West of LBW Green building – motors Batteries – Lithium Ion Tire Mgt Zone & Hauling (2 zones – w/ without rims)

Material Operations

Oil Mgt - Oil / water / Contaminant Separator Set up grinder closer to C/D pit Wood Chipping Equipment & Volume Brush & Structural wood adjacent to end destination C/D Pit Closure



Solution Opportunities

Process Improvements & ROI Expansions



Waste Characterization Study

Traffic Flow Management -> Traffic Mitigation Strategies

- Peak Pricing / Reduce fee times
- Advance purchase 12 trips / year
- County & City Service Contracts
- What Else???

Expansion Options - ROI & Diversion

- Review & Reconfigure Green bins
 - Better proximity to Recycling Center?
- Maximize Salvaging
 - \$ Value in & Decrease cost and volume
 - Salvaging on more days!
- Hazardous Waste Management (HHW)
 - Change use of current C&D sort Pad
- Organic / Food Composting
 - Space for Pad or tumbler
 - Hydronically heated floor via oil burner
- Paint Recycling
- Textile Recycling

Alternative

Equipment & Infrastructure

Processing Improvement Upgrades & Expansion

Equipment Options (efficiency, redundancy & self-performance)

- Scales in the tunnel
- 2nd Excavator with rotating Grapple
- New Hook Truck
- Wood / Brush Grinder
- C/D Grinder
- Sorting Conveyor waist height? in floor conveyor w/ guide walls to baler
- Row Turner

Available immediately with RAD management

- Dry Van trailers Cardboard, Aluminum, Plastic, E-waste
- Semi-Tractor & Trailers for waste haul redundancy and recycling hauling

Infrastructure

- 2nd Exit / or Automatic Entrance! Use tare weights on select vehicles
- Additional access doors to Green Building
- Modify side of Recycling Center Tent so there are openings for each material as to eliminate hook truck bins and storage is adjacent to the conveyor for the baler
- Solar Panels \$9k Expense, Grant \$!
- Z-Wall or other for private C/D hauler dumping eliminate traffic in building/reduce onsite congestion/increase efficiency
- West of Green building Extend concrete, Wall use to West of Green building with 2nd add in slide
- Larger C/D Sorting Pad 50x50 with 40x50 ramp
- Convert current C&D Sort Pad to HHW

Beneficial Outcomes of RAD Management

✓ Jobs Created

✓ Reduced Environmental Impacts

 ✓ Improved Clarity of the Path
 Forward

Enhanced Operations

✓ Reduced Risk & Liabilities

Educating the next generation

Why RAD?





Proven Commitment

Our Commitments

- Embrace stewardship of the Teton Valley community and environment
- Contribute to the improvement of Teton Valley
- Remain cost-effective by providing sustainable and scalable programs and services
- Increase diversion
- Lead effort to align county and city agreements
- Develop a foundation to integrate additional recycling and diversion strategies

Our Vision and Mission

Vision - "No Wasted Resources"

Purpose - Leverage the Value of Waste to Improve OUR Community

RAD's Role - Teton Valley's Stewards of Service, Community and Environment

Mission

Deliver safe and dependable trash removal for the health, safety and welfare of the community, and, in alignment with community goals, increase the community's overall diversion rate by providing sustainable and scalable services for, easy participation in, and education about diversion and recycling.

Strategy

Use a team oriented approach to provide safe, reliable and excellent service while optimizing the value in the waste stream to reinvest in our community and grow as a sustainable business.

Values

- Operate with integrity
- Be passionate about service quality, improving environmental impact
- · Be committed and diligent to identified goals
- Be truthful without deviation
- · Respect and consider all opinions and points of view
- · Be humble and collaborate with community members
- Be proud of a job well done
- Act with strong belief in your values

Our Commitments

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ur Accountability Framework

Concept of the Triple Bottom-line

Creating VALUE for SHAREHOLDERS and SOCIETY alike



Supporting Teton Valley's RAD-ness!

RAD Curbside is committed to supporting the organizations that make our Community thrive

Short List Annual Sponsorships/Donation

- Downtown Driggs Association
- Ski Jouring
- T.V. Composite Youth Mountain Bike Team
- Teton Valley Trails and Pathways
- T.V. Youth Lacrosse Association
- Youth Baseball
- Teton Valley High School Rodeo
- Teton Scrappers Basketball
- Teton School District Booster Club
- Teton Valley Foundation
- Teton Valley Ski Education Foundation
- Community Foundation of Teton Valley
- Kotler Ice Arena
- Tin Cup 8 years Running!
- Teton Valley Community School
- Scout Trop #107 Food Drive
- Teton Valley Community Recycling
- Teton Mtn. Bike Alliance / Mtn Bike the Tetons
- Friends of the Teton River
- Teton Valley Booster Club

There are quite a few more....if a youth requests support for their extracurricular activity... its easy, we just say yes





Teton Valley Stewards of Service, Community & Environment

