

CONTACT INFORMATION

Contact Information

Project Leader Name: [Chad Mlenar](#)

Phone: [1-928-300-2321](tel:1-928-300-2321)

NAU Email: chad.mlenar@nau.edu

Expected Graduation Date (if applicable):

Project Name: [Recycle/Trash Collectors](#)

Project Advisor Information

Project Advisor Name: [Chad Mlenar](#)

Phone: [1-928-300-2321](tel:1-928-300-2321)

NAU Email: chad.mlenar@nau.edu

NAU Department/Unit for Funding Reimbursements: [Facilities Department](#)

PROJECT OVERVIEW

Executive Summary

Please provide a brief overview of your proposal. Please address how this project will support the goals of the Green Fund (student involvement, creating a culture of sustainability, and lessening NAU's impact):

This project will provide the NAU Custodial staff with a better, safer, and more efficient way to collect and separate trash and recycling. These carts offer a clear separation for trash and recycling materials. There is even space to carry some of the cardboard trash that is often left by the receptacles. These carts will help separate trash and recycling for our custodians and make it easier for them to put the trash in the trash dumpsters and the recycling into the recycle dumpsters (which are now paired) and the hope is that we will have less overall cross contamination of either stream.

The cart is large enough to accommodate most of the trash from a medium sized building under normal daily use. This saves time and trips to the dumpsters making this a more efficient way to complete the daily task. It also will save on the custodian's bodies as the full trash bags can be removed from the rear of the cart by opening the double doors there. By doing this, custodians will not need to lift the heavy bags of trash over the edge of the carts. This will likely save the university not only money, but it will keep our Custodial staff healthier, and injuries will be lessened in the long run.

The carts are also robust enough to handle most of the snowy conditions we have in Flagstaff. It is easier to push and maneuver due to its larger wheels and it can have the turning wheels locked to prevent it from rolling away. These merits make this a safer cart for the Custodial staff to use. Further, due to their strong construction and warranty, I have expectations of the carts lasting a **very long time.**

Project Components

1. Does your project require space or construction on campus? If so, where? Please review the "Space Committee Document "located on our webpage and follow the steps to begin requesting a location.

This project should not require any additional space on campus for construction as we will have them assembled in the Custodial department.

2. Have you obtained all necessary approvals for this project? The Green Fund is not responsible for acquiring the necessary permits, permissions, or approvals for a project, although we are happy to assist with this process if needed. Please attach all letters of support to this application. Letters of support should include confirmation from the sponsoring department that the sponsoring department will cover all upfront expenses and work with the Green Fund Business Manager to acquire reimbursement after project completion.

Please find letters attached.

3. Does the project include any continued maintenance costs? The Green Fund does not provide any ongoing maintenance costs unless specified within the budget and approved by the committee. A sponsoring department must take responsibility for operations and management.

The carts have a 10-year warranty, and we can do most of the repairs in house after that.

Any of the receptacles have at least a one-year warranty.

4. Will this project provide funding for student wages? Coordination of wages must be done through the sponsoring department and must be included within the project budget.

N/A

Please list all additional sources of funding you have pursued, including department, grants, ASNAU graduate, student government, etc.

I have been included on a grant request in which I asked for the funding for this program, but the grant was not approved.

Our department has no budget for a project of this magnitude.

I have searched many websites for somewhere else to apply and have found none as of now.

Project Specifics

1. Is there a public outreach plan? How do you plan on communicating your project with the NAU community? Do you require assistance from the Green Fund in your outreach plan?

The plan is to educate our staff as to the proper way to use the carts and I understand that there is an educational push, campus wide, to help folks become better at using the correct receptacles for trash and recycling. The carts and barrels will use the same color coding as we have for campus-wide for trash (brown) and recycling (blue) to help ensure we get the right things in the correct places. I do not think that we'll need help currently with the roll out. I am interested to see what is developing for educating the entire campus, though.

2. Are you working with other groups on or off campus? If so, describe your partnership.

I am currently, a member of the WMT committee and they are in support of this effort wholeheartedly. I can also reach out to them for advice and get any questions answered that I currently have.

Project Parameters

1. What are the environmental costs and benefits associated with your project?

I do not foresee any environmental costs for this project. The benefits are a more

efficient handling of trash and recycling, less physical impact on the custodians as they won't make as many trips into and out of the buildings, there will be less comingling of trash and recycling as both can be separated as we pick them up, and this project can be used as an additional educational tool because people can see (through the Custodial department's efforts) that recycling is really happening on campus at all levels and that may prompt more folks to follow the example.

2. Is this a one-time expense or will you require future funding for your project?

This is a one-time funding request.

3. How will you measure and monitor the impact of your project after its implementation?

The monitoring of the impact of this project will be measured by the current methods employed by the Office of Sustainability, that is weights of dumpsters and sampling taken from receptacles to determine levels of improvement or regression. Please see the attached Fall 2024 Waste Audit as a possible baseline. We may also utilize our current building surveys to assess the effectiveness on a building-by-building perception. I will also meet with each of our teams to ensure they are complying and get the thoughts and ideas about how the plan is working as well.

Project Budget

Please include a thorough breakdown of all project costs as well as **justification for each line item**, as well as a 5%-line item for contingency. Based on the parameters of the project, the committee may increase or decrease this contingency. **Make sure to include all potential taxes or costs associated with each item.**

Item	Quantity	Price	Justification
Mega Brute Mobile Waste Collector	70	555.64	Cart to transport waste and recycling.
Black Tandem Brute Dolly	15	170.88	Dolly to transport barrels in smaller buildings.
44gal. Round Blue Brute	15	52.46	Recycling container for tandem dolly system.
44gal. Round Black Brute	15	53.28	Trash container for tandem dolly system.

Blue Vented Slim Jim	70	42.09	Recycling container for the Mega Brute cart.
Volume Discount	1	-2,299.52	
Taxes		3,626.34	
Total		47,317.22	Per 12/15/2024 quote.

5% Contingency (5% of total project cost)	7,097.58
Total Project Cost	54,414.8

Project Timeline

Please provide a timeline for the significant dates of your project. Please add all relevant information and consider any holidays/breaks and time required to obtain necessary approvals. **Please be as specific as possible.**

Timeline	
Action & Parties Involved	Month/Year
Approval	1/2025
Order Products	2/2025
Products Shipped	3/2025
Products Received	4/2025 to 05/2025

Anticipated Date of Completion	7/2025 to 8/2025
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Fall 2024 Waste Audit- ENV 101L
November 18-21, 2024

Recycling Bag Sorting

Dumpster Stand Composition

Location	# Recycling Bags Sorted	Total Weight of bags (lbs)	Total Weight of Properly Disposed Recyclable Items (lbs)	Total Weight of Improperly Disposed Landfill Items (lbs)	Landfill Contaminant Rate (%)	Landfill Dumpster- # correctly placed bags	Landfill Dumpster- # incorrectly placed bags	Recycling Dumpster- # correctly placed bags	Recycling Dumpster- # incorrectly placed bags
North									
Aquatic Center	4	51.5	46.5	5	9.7	11	0	5	1
Communications	4	15	11	4	26.7	9	0	5	9
Roseberry Hall	4	6	4.9	1.1	18.3	9	1	5	3
Gillenwater	3	4.5	3.5	1	22.2	3	7	3	1
Peterson	5	13.4	12.9	0.5	3.7	18	0	12	1
High Country Conf. Center	4	33	17	16	48.5	2	0	3	7
Taylor Hall	4	8.5	5	3.5	41.2	7	1	9	1
North Totals	28	131.9	100.8	31.1	23.6	59	9	42	23
Central									
Sechrist	5	29	12.75	16.25	56.0	5	0	11	0
San Francisco Parking	3	13.6	8	5.56	40.9	17	0	11	0
San Francisco Parking	4	58	44	14	24.1	14	1	7	0
Allen Hall	5	22.5	19.73	2.77	12.3	5	0	3	4
Cowden Hall	8	19.5	4.5	15	76.9	15	1	0	7
Performing Arts	8	33.75	32	1.75	5.2	10	0	15	1
McKay Village East	4	6.7	3.5	3.2	47.8	3	9	2	4
McKay Village South	4	14.5	12.5	2.1	14.5	2	9	3	4
Reilly Hall	4	9.5	5.5	4	42.1	18	7	7	0
Calderon Hall	3	15.5	9	6.5	41.9	5	0	4	7
Central Totals	48	222.55	151.48	71.13	32.0	94	27	63	27
South									
McConnell Hall 1	6	18	6.8	11.2	62.2	15	0	3	3
McConnell Hall 2	6	42	5.5	36.5	86.9	8	0	2	4
McConnell Hall North	4	18.2	2	16.1	88.5	14	0	8	2
Pine Ridge Village	1	3	3	0	0.0	30	0	1	0
College of Business	4	27.5	25.3	2.2	8.0	0	0	15	1
SBS/Engineering	4	15	9	6	40.0	9	0	15	1
Forestry	2	17	16.9	0.1	0.6	0	0	2	0
Engineering/Health Profess	0	0	0	0	0.0	0	0	0	2
ROTC	1	3.5	2	1	28.6	8	1	1	0
South Totals	28	144.2	70.5	73.1	50.7	84	1	47	13
Campus Totals	104	498.65	322.78	175.33	35.2	237	37	152	63



QUOTE ACKNOWLEDGEMENT

Page #	1
Order Date	11/15/24
Order Time	7:34:29
Order #	1H50D-00
Requested Ship Date	11/18/24

P.O.#:	RUBBERMAID ITEMS
Customer #	0516122500

SOLD TO
 NORTHERN ARI ZONA UNI VERSITY
 PO BOX 6042
 FLAGSTAFF, AZ 86011-0181

SHIPP TO
 NORTHERN ARI ZONA UNI VERSITY

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 QUOTATI ON QUOTATI ON
 QUOTATI ON QUOTATI ON

SHIPPING FROM WAXIE Mesa

Sales Rep: 05529	Terms: NET 30 DAY			
Item Number/Description	U/M	Order Qty	Unit Price	Extended Amount

500427 9W73 MEGA BRUTE MOBILE W ASTECCOLLECTOR HI CAPACITY BLACK	EA	70	555.64	38,894.80 T
730360 2646 RM BLACK TANDEM BRUTE DOLLY	EA	15	170.88	2,563.20 T
730831 44GL ROUND TRASH CONTAINER W/VENT CHANNELS BLUE 4EA/CS	EA	15	52.46	786.90 T
730833 2643-60 BLACK BRUTE 44 GAL CONTAINER - VENTED 4EA/CS	EA	15	53.28	799.20 T
730034 RM VENTED SLIM JIM 23G BLUE	EA	70	42.09	2,946.30 T
			Volume Discount	2,299.52-

Subtotal	43,690.88
Sales Tax	3,626.34
Quote Total	47,317.22
Deposit	
Quote Total	47,317.22



EMAIL

TO: NORTHERN ARIZONA UNIVERSITY

QUOTATION QUOTATION
QUOTATION QUOTATION

FROM: WAXIE SANITARY SUPPLY
4136 EAST MCDOWELL ROAD
MESA, AZ 85215-

ATTN: _____

DATE: 12/26/24

Message

If you do not receive all of the pages listed please call
at 480-333-1000 in MESA, AZ

ASHTON L. READY
_____ at extension _____

Letter of Support
Trash/Recycling Carts

Dear Green Fund Committee/Office of Sustainability,

I am writing to lend my support to the proposal for purchasing Trash/Recycling carts that was submitted by Chad Mlenar, Custodial Operations Manager. The carts will be very instrumental in making the daily collection of trash and recycling a more efficient process by reducing the number of trips to the dumpsters due to their robust size and construction. The division of trash and recycling materials onboard the cart lends itself to sorting convenience at the dumpsters as the trash and recycling are already separated. The durability of this product will give us many years of service with minimum upkeep and maintenance costs. The carts will be a great addition to our department's commitment to sustainability focus as well.

The Custodial Department understands that any and all future expenses, including replacement parts and equipment maintenance, must be covered by the Custodial Department. We understand that the Green Fund is only responsible for the initial purchase of the materials approved in this proposal and will not fund continued maintenance of the program. We understand that reimbursement of costs will be initiated upon completion of the project. We understand that it is the duty of the project applicant and advisor to coordinate all student wages, permissions, approvals, etc. prior to the submission of the project application.

Thank you for your time and consideration of this project. If you have further questions, please utilize my email or give me a call at the number above.

Sincerely,



Stephanie Bauer
Assoc. VP Facility Services
Northern Arizona University
928-523-3839
Stephanie.bauer@nau.edu

Facility Services

Tim Elliott
Assistant Director of Facilities and Maintenance
Facility Services
Northern Arizona University
928-523-0753
tim.elliott@nau.edu

Letter of Support
Project: Recycle/Trash Carts

Dear Green Fund Committee -

I am writing to support the Recycle/Trash Cart proposal submitted by Chad Mlenar, Custodial Operations Manager. The project has been well researched and will provide the NAU Custodial staff with a more efficient process to collect and separate trash and recycle. It will also enable a safer way to deliver those materials to the appropriate waste containers. These carts will support the recently implemented recycle program and are critical to our campus sustainability efforts. The carts are well-constructed with large, durable wheels which will assist the Custodial staff in winter weather conditions. The capacity of the carts will also allow less trips to dispose of trash and recycle to the exterior dumpsters.

The Custodial Department understands that any and all future expenses, including replacement parts and equipment maintenance, must be covered by Custodial Department. We understand that the Green Fund is only responsible for the initial purchase of the materials approved in this proposal and will not fund continued maintenance of the program. We understand that reimbursement of costs will be initiated upon the completion of the project. We understand that it is the duty of the project applicant and advisor to coordinate any and all student wages, permissions, approvals, etc. prior to the submission of the project application.

Thank you for your consideration of this project! If you have any questions, please contact me at the email or phone number listed above.

Sincerely,



Tim Elliott