

City of Colorado Springs Sustainability Final Report

Fall 2022

Client: Samantha Bailey

Team Members: Blake Haan, Curtis Peacock, Jacob Biles, Alec Ankrum, Aidan Woughter

Dear Samantha,

 Our whole team would like to thank you for the opportunity to work with you this semester. It has been an absolute pleasure to collaborate with you and learn more about the waste streams in Colorado Springs and across the country. We appreciate the trust that you have given us in such a high stakes project as this one, and it has certainly been a once-in-a-lifetime experience. The opportunity to learn and work on a project with real-world implications has helped us improve our communication and leadership abilities. Although the time we spent together was brief, we feel that it was very valuable to our education and we are grateful for every second that you took out of your schedule for us.

 Along with this letter, you will find the final report on our project this semester. This includes all relevant research and deliverables from this semester, including research on waste hauling in other cities, our definition of a waste hauler, a contact directory of all waste haulers in Colorado Springs, and a draft of a waste hauler application. The report also contains an overview of the Bachelor of Innovation program and recommendations for future teams working on this waste characterization study.

We hope that you have success with the rest of this project and with future Bachelor of Innovation teams. Please feel free to reach out to us with any questions or concerns about our project.

Sincerely,

Blake Haan and Curtis Peacock

**Table of Contents**

1. Introduction and Bachelor of Innovation Overview………………………………...Page 4
2. Project Goals and Accomplishments………………………………………………..Page 6
3. Conclusion and Recommendations…………………………………………………Page 8
4. Appendix…………………………………………………………………………….Page 9
	1. Colorado Springs existing waste hauling policies…………………………..Page 9
	2. Waste Hauling policies in other Colorado cities…………………………….Page 9
	3. Waste hauling policies in cities with similar population to Colorado Springs……………………………………………………………………...Page 12
	4. Definition of a waste hauler in Colorado Springs………………………….Page 13
	5. Colorado Springs Waste Hauler Contact Directory………………………..Page 15
	6. Draft of waste hauling application…………………………………………Page 17
	7. Scope of Work……………………………………………………………...Page 21
	8. Meetings and Attendance…………………………………………..………Page 24

**I. Introduction and Bachelor of Innovation Overview**

The Bachelor of Innovation (BI) degree is an undergraduate degree program at the University of Colorado Colorado Springs (UCCS). This program creates a unique experience for students from a range of backgrounds in the College of Letters, Arts, and Science, the College of Engineering and Applied Science, the College of Education, and the College of Business. The program combines aspects from all these different degree pathways to help prepare students to be innovators in their future career fields. Students become more experienced in several subjects like leadership, entrepreneurship, and business law, giving them a competitive advantage upon graduation. In the BI program, innovation is defined as transforming ideas into impact. Through the program, students are encouraged to apply these innovative concepts to their classes and in their futures beyond graduation.

 The BI program is organized so that students take the Innovation Teams course three times in their college career with different roles and clients each time, beginning as a 2010 student (sophomore), then moving on as a 3010 student (junior) with more responsibilities before finally taking on a leadership role as a 4010 student (senior). The class emphasizes team-building and leadership qualities while students learn how to work with clients to complete real world tasks. Each team is composed of one to two leaders (4010’s) tasked with building a skilled and diverse team of both 2010 and 3010 students based on the client’s needs and the scope of their project. In order to be successful as a team, it is essential to have effective communication between team members, instructors, and the client. In the team itself, students must be able to rely on each other’s word and hold each other accountable. While putting students in real-world situations, these courses also give students a safe space to fail and learn from their mistakes, allowing them the confidence to make important decisions, take advantage of opportunities, and truly transform their ideas into something impactful for the client.

 Working with Samantha Bailey, the sustainability coordinator of the City of Colorado Springs Office of Innovation and Sustainability, our team consisted of leaders Blake Haan and Curtis Peacock along with Jacob Biles, Alec Ankrum, and Aidan Woughter. The team walked away from this project with a greater understanding for how waste streams work both in Colorado Springs and around the country. We are extremely grateful for the experiences and connections we have made during the course of the semester, and we are excited to pass our findings on to future teams.

**II. Project Goals and Accomplishments**

For this project, we were tasked by our client to conduct a study of the waste streams in Colorado Springs. Being the first team in a project that will span several semesters, our team provided the foundation that future teams will build on for this waste characterization study. The specific goals for our project, which are also stated in the Scope of Work, are as follows:

* Define what constitutes as “waste hauler” in Colorado Springs
* Research all of the Colorado Springs businesses that fall within our definition of a “waste hauler”
* Create a contact directory for all waste haulers in Colorado Springs
* Create a draft of a waste hauler application

In order to understand the current state of Colorado Springs’ waste streams, our team started with basic research of waste hauler requirements in Colorado Springs and other large cities in Colorado, such as Denver and Fort Collins. We found that Colorado Springs has existing regulations and policies on liquid waste hauling, outlined in the [Liquid Waste Hauler Permit](https://www.csu.org/Documents/LiquidWasteHaulerPPM.pdf), as well as regulations for hazardous waste through the [El Paso County Hazardous waste facility](https://communityservices.elpasoco.com/household-hazardous-waste/), so we did not consider these types of waste in our definition.We also found that the most common requirements of being a waste hauler included a regular or scheduled pickup date/time and that the business has a payroll/two or more trucks hauling waste. These stipulations help delineate between legitimate waste hauling businesses and other businesses that may occasionally haul the waste they create in their main operations, such as landscaping operations or companies like College Hunks. With this basis, we started researching sustainability leaders with populations similar to Colorado Springs, both in and outside of Colorado, such as Boulder County and Miami to see what other requirements and exemptions should be included in the definition. This research, included in the appendix, gave us the information necessary to identify our final definition of a Colorado Springs waste hauler as:

**Business entities involved in the collection, transportation, or disposal of discarded materials for profit (trash, recyclables, compostables, junk, construction and demolition materials, aggregate, or landscaping materials) and are on a regular or recurring basis using two or more trucks.**

**Exemptions:**

* **Personal waste hauling (only the trash which that person or their property generates)**
* **Individuals who haul waste that is a result of their occupation (landscaping, construction, movers, etc.)**
* **Liquid Waste ( grease traps/interceptors, sand interceptors, septic tanks, portable toilets, holding tanks, and other liquid waste that are connected to the Colorado Springs Utilities Wastewater Treatment System) (see Liquid Waste Hauler Permit)**
* **Hazardous Waste (see El Paso County Hazardous Waste Facility)**

With our definition solidified, our next step was to research all of the businesses that haul, or are associated with hauling waste to create a list of potential eligible waste haulers under this definition. This list ranges from large waste hauling businesses such as Waste Connections of Colorado, to small side businesses. From this list, we identified each business and researched them individually to determine whether or not they fit our definition’s stipulations. This left us with a consolidated contact directory (see appendix) of all waste hauling businesses that fit within the requirements of our definition.

 Most other cities in Colorado and around the country have an application that waste hauling businesses must submit. As mentioned before, Colorado Springs has an application for liquid waste hauling, but does not have one for other types of waste. Not having this application makes it difficult to understand and keep track of the waste streams in Colorado Springs and hold waste haulers accountable for proper pick-up and disposal. Based on the research of other cities’ applications, we created a draft of a waste hauler application in Microsoft Forms for Colorado Springs that includes our definition of a waste hauler (see appendix).

**III. Conclusion and Recommendations**

 With our team’s research and accomplishments, we have provided a solid framework for future Bachelor of Innovation teams to build upon. We recommend that our client apply for several more Bachelor of Innovation teams to continue this waste characterization study. Additionally, we recommend that our client direct future teams to expand upon our waste hauler application with any applicable information that they uncover. We believe that the implementation of a waste hauler application will greatly benefit the understanding and enforcement of Colorado Springs waste hauling and disposal. We also recommend that our client utilizes the contact directory to further understand how, where, and what is being hauled as waste, as well as the details of how these companies operate within city limits. This will also provide insights on how the sum of waste hauling processes in Colorado Springs could be improved upon. All of the research and documents to support our suggestions and findings is included below in the appendix.

**IV. Appendix**

**Colorado Springs existing waste hauling policies:**

* [Liquid Waste Hauler Permit](https://www.csu.org/Documents/LiquidWasteHaulerPPM.pdf)
	+ Establishes requirements and permits for liquid waste disposal at Colorado Springs Utilities East Las Vegas Street
	+ Includes: grease traps/interceptors, sand interceptors, septic tanks, portable toilets, holding tanks, and other liquid waste that are connected to the Colorado Springs Utilities Wastewater Treatment System
* [El Paso hazardous waste facility](https://communityservices.elpasoco.com/household-hazardous-waste/)

Colorado Springs Landfills:

* WM of Colorado - Southern Colorado Transfer Station

1965 Commercial Boulevard Colorado Springs, CO 80906

* Colorado Springs Landfill

1010 Blaney Road Colorado Springs, CO 80929

* Midway Landfill

8925 Rancho Colorado Boulevard Fountain, CO 80817

* Divide Transfer Station

176 Weaverville Rd. Divide, CO 80814

**Waste Hauling policies in other Colorado cities:**

* Denver
	+ Definitions
		- All solid waste haulers who collect and haul waste in the City & County of Denver must have a license. "Solid waste" includes recyclables, organics, junk, construction & demolition, and other bulky materials.
	+ Requirements
		- All solid waste haulers who collect and haul waste in the City & County of Denver must have a license. Solid Waste includes recyclables, organics, junk, construction & demolition, and other bulky materials.
		- It requires that haulers meet the same baseline collection safety requirements.
		- It also provides basic solid waste tonnage data for the commercial sector in Denver.
* Longmont
	+ <https://www.longmontcolorado.gov/departments/departments-n-z/trash-recycling-composting/private-refuse-collection-service-license>
	+ Definition: collect, transport or dispose of discarded materials (garbage, recyclables, compostables, construction and demolition materials, or landscaping materials).
* Boulder County
	+ <https://bouldercounty.gov/environment/trash/hauler-license/>
	+ Definition: collect, transport, or dispose of discarded materials (trash, recyclables, compostables, construction and demolition materials, aggregate, or landscaping materials)
	+ Policy enacted in 2019 for:
		- Licensing of all hauling companies
		- Pay-As-You-Throw (PAYT) disposal pricing tiers for residential customers
		- Single-stream recycling (all recyclables together in one bin) with unlimited curbside recycling collection
		- Curbside organics/compost collections in certain neighborhoods
		- Waste Hauler Annual Reporting
* Fort Collins
	+ <https://www.fcgov.com/recycling/forms>
	+ Definition: All haulers that provide residential and/or commercial solid waste and recycling collection service on a regular, recurring schedule or specialized solid waste and recycling collection service, such as containers for construction and demolition must provide the following forms to the City:
		- [Hauler License Form](https://www.surveygizmo.com/s3/5804015/Hauler-Licensing)
		- [Waste/Recyclables Collected Form](https://survey.alchemer.com/s3/5894880/Tonnage-Report-Q3-Q4)
* Aurora
	+ <https://www.auroragov.org/residents/trash___recycling>
	+ Residential trash and recycling pick-up is not a city-provided service. It is the responsibility of the individual residents, homeowner’s associations, or multifamily building management company to arrange for service with one of the city's permitted trash and recycling haulers. The following companies are licensed with the city of Aurora to provide residential curbside services:
		- [Best Cleaner Disposal](http://bestcleanerdisposal.com/)
		- Eastern Dispose All - 303.690.0151
		- [GFL](https://gflenv.com/welcome-to-new-gfl-experience/)
		- [Little Dumpsters](https://www.littledumpsters.com/)
		- [Republic Services](https://www.republicservices.com/)
		- [Waste Connections](https://www.wasteconnections.com/denver/)
		- [Waste Management](https://www.wm.com/us)
		- [Wompost](https://www.wompostcoop.com/)

**Waste hauling policies in cities with similar population to Colorado Springs:**

* Kansas City, Missouri
	+ POP : 508,394
	+ Policy -- Not applicable licensing, Landfill Policies but no trash collection except for hazardous waste.
		- <https://cityofls.net/public-works/recycling-trash/residential-trash>
* Mesa, Arizona
	+ POP : 509,475
	+ Policy -- Not applicable licensing, Waste handling (Regarding recycling, shredding, baling etc…)
* Atlanta, Georgia
	+ POP : 496,461
	+ Policy -- Not applicable licensing, Waste handling (Regarding recycling, shredding, baling etc…)
* Virginia Beach, Virginia
	+ POP -- 457,672
	+ Policy -- Not applicable licensing
* Omaha, Nebraska
	+ POP :443,885
	+ No permits or licensing found
* Miami, Florida
	+ POP: 439.890
	+ Policy – A permit is required for anyone in the business of solid waste collection or recyclable materials collection, removal or transport for hire or salvage over the streets or public right-of-way in Miami-Dade County.
	+ Website: <https://www.miamidade.gov/global/permit.page?Mduid_permit=per1512420973769266>
	+ Permit Application: <https://www.miamidade.gov/solidwaste/library/permits/general-hauler-application.pdf>

**Definition of a waste hauler in Colorado Springs:**

Business entities involved in the collection, transportation, or disposal of discarded materials for profit (trash, recyclables, compostables, junk, construction and demolition materials, aggregate, or landscaping materials) and are on a regular or recurring basis using two or more trucks.

Exemptions:

* Personal waste hauling (only the trash which that person or their property generates)
* Individuals who haul waste that is a result of their occupation (landscaping, construction, movers, etc.)
* Liquid Waste ( grease traps/interceptors, sand interceptors, septic tanks, portable toilets, holding tanks, and other liquid waste that are connected to the Colorado Springs Utilities Wastewater Treatment System) (see Liquid Waste Hauler Permit)
* Hazardous Waste (see El Paso County Hazardous Waste Facility)

**Colorado Springs Waste Hauler Contact Directory:**

| **Name** | **Email** | **Website** | **Phone Number** |
| --- | --- | --- | --- |
| Waste Management | cscolorado@wm.com | [wm.com](http://wm.com/) | 866-909-4458 |
| Waste Connections of Colorado | customerservice5315@wcnx.org | <https://www.wasteconnections.com/colorado-springs/>  | 719-591-5000 |
| 1-800-GOT-JUNK | customerservice@1800gotjunk.com | <https://www.1800gotjunk.com/us_en>  | 800-468-5865 |
| Junk Removed Now | contact@junkremovednow.com | <https://junkremovednow.com> | 719-297-1080 |
| Pikes Peak Junk Removal | anthony@pikespeakjunkremoval.com | [https://www.pikespeakjunkremoval.com](https://www.pikespeakjunkremoval.com/) | 719-654-4455 |
| The Junk Trunk | scheduling@thejunktrunk.com | <https://thejunktrunkco.com/>  | 720-358-1281 |
| Bin There Dump That | infocos@bintheredumpthat.com | <https://coloradosprings.bintheredumpthatusa.com/home>  | 719-686-8613 |
| The Good Guys at Earthwise | support@proearthwise.com | <https://thegoodguysatearthwise.com/>  | 719-599-3366 |
| Peak Hauling & Dumpster Rental | dennis@peakdumpsterrental.com | <https://peakdumpsterrental.com> | 719-306-2341 |
| Infinite Disposal | info@infinitedisposal.com | [https://www.infinitedisposal.com](https://www.infinitedisposal.com/) | 719-999-0500 |
| SOCO Waste | service@socowaste.com | <https://www.socowaste.com/>  | 719-357-8855 |
| Carefree Disposal | contact@carefreedisposal.com | <https://www.carefreedisposal.com>  | 719-635-9999 |
| Pam and Dan's Hauling | pamanddanshauling@gmail.com | <https://www.pamanddanshauling.com>  | 719-527-9988 |
| Bargain Bins LLC | rental@bargainbins.com | <https://www.bargainbins.com>  | 719-527-1301 |
| Junk King Colorado Springs | N/A | <https://www.junk-king.com/locations/coloradosprings/>  | 719-694-5250 |
| All American Disposal | N/A | <https://rolloffdumpster-coloradosprings.com/>  | 719-419-9179 |
| Waste Systems Inc. | service@wastesysinc.com | <https://wastesysinc.com/>  | 719-634-7177 |
| GFL Colorado Springs | N/A | <https://gflenv.com/gfl-colorado-springs/>  | 719-633-8709 |
| Clutter Trucker Colorado Springs | contact@cluttertrucker.com | <https://cluttertrucker.com/junk-removal-colorado-springs/>  | 719-372-5009 |

**Draft of waste hauling application:**



**Application Definition**

This application is to gain licensing from the City of Colorado Springs to attain waste hauling services. Whereas as of **SOME DATE,** getting a license within the city of Colorado Springs is required. This application covers all solid business and household-based waste, excluding any particular purpose or liquid-based destruction. Your business must fit within the following description/definition to be applicable to this application:

* **Business entities involved in the collection, transportation, or disposal of discarded materials for profit (trash, recyclables, compostables, construction and demolition materials, aggregate, or landscaping materials) and are on a regular or recurring basis using two or more trucks.**
* **Exemptions -- All must be false**
* **Personal waste hauling (only the trash which that person or their property generates)**
* **Individuals who haul waste that is a result of their occupation (landscaping, construction, etc.)**
* **Liquid Waste ( grease traps/interceptors, sand interceptors, septic tanks, portable toilets, holding tanks, and other liquid waste that are connected to the Colorado Springs Utilities Wastewater Treatment System) (see Liquid Waste Hauler Permit)**
* **Hazardous Waste (see El Paso hazardous waste facility)**

Please provide all relevant information occurring to one's waste hauling business or subsidiary if your business falls within the scope of this application.

**Application Information**

**Business Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Business Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**City\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zip Code\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Office\_(\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cell/Personal\_(\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**First Fax\_(\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mailing Address (If different from business address)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**City\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zip Code\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Office\_(\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cell/Personal\_(\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**First Fax\_(\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Is your business a corporation?**

**If YES please complete the following**

* **Yes**
* **No**

 **Corporation Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Corporation Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**City\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zip Code\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Corporate Officers and Directors, addresses, positions and contact information.**

| **Name** | **Position** | **Address** | **Contact information** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Types of hauling**

Please check or fill in the boxes below based on the type of hauling your business will be performing.

| * **Residential Trash Collection**
 | * **Commercial trash collection**
 |
| --- | --- |
| * **Residential Recycle Collection**
 | * **Commercial recycling collection**
 |
| * **Residential Compost Collection**
 | * **Commercial food waste collection**
 |
| * **Construction Demolition Waste Collection**
 | * **Construction waste collection**
 |

**Vehicle information, Operator, VIN, License plate, Make/Model**

| **Operator (if applicable)** | **License Plate** | **VIN** | **Make/Model** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Printed Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Waste Receipts**

| **Date/Time** | **Location** | **Amount of Trash (lbs.)** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Link to waste hauling application in Microsoft Forms:**

<https://forms.office.com/Pages/DesignPageV2.aspx?subpage=design&FormId=-kOTUsjon0GrLqcMEAOIEK4y5go3BMpIiiQUkEX2DLZUQ0dTMDA2UEZGVk1YUTkwU0NFSDJOU0RYSi4u&Token=3e76e7839ba44555be6a35601bcdf838>

**SCOPE OF WORK**

**CITY OF COLORADO SPRINGS SUSTAINABILITY**

**Fall 2022**

**Client Information**

* **Samantha Bailey-** 719-362-7360, Samantha.bailey@coloradosprings.gov
* **Position-** Sustainability Coordinator for the City of Colorado Springs

**Bachelor of Innovation Team Information**

 ***Leads***

* **Blake Haan-** 720-400-4499, bhaan@uccs.edu, blake.n.haan@gmail.com
* **Curtis Peacock-** 970-201-9353, cpeacock@uccs.edu, cdpoint30@gmail.com

***Team Members***

* **Jacob Biles-** 720-380-4827, jbiles@uccs.edu, 3010
* **Aidan Woughter-** 719-425-5473, awoughte@uccs.edu, 2010
* **Alec Ankrum-** 715-927-2147, aankrum@uccs.edu, 2010

**Pertinent Client Background**

Samantha Bailey is the sustainability coordinator for the City of Colorado Springs, focusing on a variety of efforts ranging from air quality, community gardens and materials management. This position is housed in the Office of Innovation. She has been working at her current position for 2 years and has experience in environmental science, wastewater development, and groundwater contamination. The Office of Innovation received a grant from the Colorado Department of Public Health and Environment to conduct a waste characterization study to understand how materials are handled within city limits. Our project is the first semester of a five-semester collaboration between the Bachelor of Innovation and our client.

**Financial considerations**

Mrs. Bailey and the Office of Innovation have secured a $500,000 grant to pursue her evaluation of the waste systems of Colorado Springs. These funds are available for any financial requirements for the project, but we don't expect that will be necessary this semester.

**Project Purpose**

The purpose of this project is to conduct a waste characterization study to help fill in gaps of information and improve the sustainability of the waste systems in Colorado Springs. Our team’s role in this project is to compile a directory of businesses that we define as “waste haulers”.

**Project goals *to be completed* by the end of the semester.**

***Goal 1*:** Define what constitutes a “waste hauler” in Colorado Springs.

* **Date of Completion:** 10/04/2022
* **Measurable Outcome:** Presenting to our client our definition of a “waste hauler” during a client meeting in Teams, as well as a Google Doc.

***Goal 2*:** Research all of the Colorado Springs businesses that fall within our definition of a “waste hauler”.

* **Date of Completion:** 11/01/2022
* **Measurable Outcome:** A list of all potential “waste haulers” in Colorado Springs to research and contact to determine if they fit our definition in goal one.

***Goal 3*:** Create a contact directory for all “waste haulers” in Colorado Springs and differentiate between them in a Google Drive folder that can be used by our client and future teams.

* **Date of Completion:** 11/29/2022
* **Measurable Outcome:** A complete, organized contact directory of all “waste haulers” in Colorado Springs according to our definition.

***Goal 4:*** Create a draft of a waste hauler application

* **Date of Completion:** 11/29/2022
* **Measurable Outcome:** A waste hauler application in Microsoft Forms including our definition of a “waste hauler” that can be used by the client for the “waste haulers” defined in Goal 3

**Timeline**

* ***9/20 - 10/04***
	+ Start looking into companies involved in waste removal in Colorado Springs so that we can understand what constitutes a “waste hauler”.
	+ **Deliverables:** Define what constitutes a “waste hauler” in Colorado Springs.
* ***10/11 - 11/01***
	+ Research ALL potential “waste hauler” businesses in Colorado Springs.
	+ **Deliverables:** Compiled list of potential “waste haulers” in Colorado Springs to research and contact.
* ***11/08 - 11/29***
	+ Finalize a list of all “waste haulers” in Colorado Springs complete with contact information, websites, and why they are considered “waste haulers”.
	+ Finalize waste hauler application form
	+ **Deliverables:** Final contact directory of “waste haulers” in Colorado Springs in a Google Drive folder that can be passed on to future BI Teams.
* ***Before 12/6***
	+ Final communication with client confirming receipt of the final report
	+ **Deliverables:** All project goals will be complete and presented to the client in Teams and in the Final Report.

**Meeting Agreement**

* The BI team will be meeting weekly on Tuesdays after class via Microsoft Teams
* Weekly client meetings via Microsoft Teams will be Monday’s at 6pm when necessary.

**Signatures**

**BI Team**

****

**Blake Haan**

****

**Curtis Peacock**

****

**Alec Ankrum**

****

**Jacob Biles**

****

**Aidan Woughter**

**Client**

**Samantha Bailey**

**Meetings and Attendance**

Meetings:



Meeting/ Class Attendance:

