



FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT

Member of Wyoming Solid Waste and Recycling Association (WSWRA)

P.O. Box 1400
Lander, WY 82520
telephone 307.332.7040
fax 307.332.5013
trashmatters.org

MEETING AGENDA

FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT

BOARD OF DIRECTORS – REGULAR MEETING

April 19, 2021 - 9:30 a.m.

1. PRELIMINARY ITEMS:

- a. Pledge of Allegiance
- b. Roll Call: Michael Adams, Steve Baumann, Gary Weisz, Rick Klaproth, Mark Moxley, Rob Dolcater, Rod Haper, Jennifer Lamb, and Robert Townsend
- c. Declaration of Quorum
- d. Approval of Agenda (*Discussions and Formal Action*)
- e. Public Comment / Communication from the Floor

2. CONSENT ITEMS:

- a. Approval of the Meeting Minutes
 - i. March 2021
- b. Approval of the Accounts Payable
 - i. March 2021
- c. Acceptance of Consultants and Agreement Reports
 - i. Trihydro Corporation
 - ii. Burns and McDonnell
 - iii. Wind River Inter-Tribal Solid Waste – *no report submitted*
- d. Acceptance of Staff Reports
 - i. Superintendent Report

3. BUSINESS ITEMS:

- a. Operational Evaluation and Strategic Planning Project Update – Matt Evans (*Discussion*)
- b. Scale Facility Project Draft Layout and Detail Review – Burns and McDonnell (*Discussions*)
- c. Draft Fiscal Year 2021-2022 Operating Budget Review (*Discussions*)
- d. Shoshoni Landfill Closure – Synthetic Liner Availability Discussions (*Discussions*)
- e. Used Backhoe Bid Review (*Discussions and Formal Action*)

4. NEW BUSINESS

5. CLOSING ITEMS:

- a. Upcoming Meeting(s):
 - i. The next Regularly Scheduled Meeting(s): May 17, 2021, at 9:30 a.m.
- b. Call for Adjournment



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FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT

Minutes of Regular Board Meeting

March 15, 2021

1. PRELIMINARY ITEMS:

a. – c. The regular meeting of the Fremont County Solid Waste Disposal District Board of Directors was held on the above date and called to order by CHAIRMAN ADAMS at 9:30am. CHAIRMAN ADAMS then led the Pledge of Allegiance and declared that there was a quorum of the Board with the following people in attendance:

<u>Board Members:</u>	Michael Adams, Rick Klaproth, Gary Weisz, Jennifer Lamb (via Zoom), Robert Townsend, Rod Haper (via Zoom), Rob Dolcater, Mark Moxley (via Zoom) and Steve Baumann
<u>Excused Member(s):</u>	No Excused Members
<u>Unexcused Member(s):</u>	No Unexcused Members
<u>Commissioner Liaison:</u>	Mike Jones (via Zoom)
<u>Community Liaisons:</u>	Kyle Larson (City of Riverton)
<u>Attorney:</u>	Rick Sollars (Western Law & Assoc.)
<u>Staff:</u>	Superintendent Andy Frey
<u>Consultant(s):</u>	Matt Evans (Burns and McDonnell) via Zoom
<u>Guest(s):</u>	Brian Eggleston (City of Riverton), Rene Schell (WY G&F), and Mitch Renteria (WY G&F)

d. **Approval of Agenda**

GARY WEISZ made a motion to approve the consent agenda, removing the Superintendent's Report for discussion. SECRETARY/TREASURER KLAPROTH seconded the motion. **MOTION CARRIED**

e. **Public Comment/Communication from the Floor**

CHAIRMAN ADAMS opened the floor to public comment.

Discussions: Brian Eggleston communicated to the Board the timeline associated with the new tub grinder as having a delivery in April.

2. CONSENT ITEMS:

a. **Approval of Prior Meeting Minutes**

- i. February 2021

b. **Approval of Accounts Payable**

- i. February 2021 Invoices

c. **Acceptance of Consultants Reports:**

- i. Trihydro Corporation – Progress Report
- ii. Burns and McDonnell – Progress Report
- iii. Wind River Indian Reservation Inter-Tribal Solid Waste Program – No Report Submitted

d. Acceptance of Staff Reports:

- i. Superintendent Report – REMOVED FOR DISCUSSION

Discussions: (1.) Retired staff person, unemployment claim, and impacts on the two different unemployment models.

ROB DOLCATER made a motion to approve the Superintendents Report. BOB TOWNSEND seconded the motion.

MOTION CARRIED

3. OTHER ITEMS OF BUSINESS:

a. Deer Carcass Waiver Program – Wyoming Game and Fish (*Discussions*)

Rene Schell reviewed the annual usage of the Deer Carcass Fee Waiver program between February 2020 and February 2021, representing the second full year of the five-year commitment between the District and WY Game and Fish to operate the program.

Discussions: (1.) The WY Game and Fish continue to fund the program by \$1,500 annually. (2.) Noticeable increase in use and awareness by WY DOT. (3.) Commercial use continues to represent over 50% of the program use.

b. Scale Facility Task Order Request – Burns and McDonnell (*Discussions and Formal Action*)

Superintendent Frey presented the Burns and McDonnell Task Order Request, Authorization No. 32 for the scale system design for the Lander, Dubois and Sand Draw sites. The work includes scales, roadways, ramps, sewer and water systems, scale buildings, and traffic control. The task order comes with a not-to-exceed \$98,794 cost.

VICE-CHAIRMAN MOXLEY made a motion to approve the Burns and McDonnell Task Order Authorization No. 32 with a cost not-to-exceed \$98,794. SECRETARY/TREASURER KLAPROTH seconded the motion. **MOTION CARRIED**

c. Operational Evaluation and Strategic Planning Project Update – Matt Evans (*Discussion*)

Matt Evans (Burns and McDonnell) reviewed the three operational alternative models and the financial impacts associated with each.

Discussions: (1.) Current county mill levy reductions are projected with a decrease of \$200,000. (2.) Approximately 40% of the mill levy monies are tied back to oil and gas.

4. NEW BUSINESS – No new business

5. CALL FOR ADJOURNMENT

STEVE BAUMANN made a motion to adjourn at 10:49AM. BOB TOWNSEND seconded the motion. **MOTION CARRIED**

6. UPCOMING MEETING(S):

- a. The Next Regularly Scheduled Meeting: April 19, 2021, at 9:30 a.m.

Respectfully submitted by,

Andrew Frey, P.E.
Superintendent of Operations
Fremont County Solid Waste Disposal District

Michael Adams
Board of Director's Chairman
Fremont County Solid Waste Disposal District

Fremont County Solid Waste Disposal District
Balance Sheet
As of March 31, 2021

	<u>Mar 31, 21</u>
ASSETS	
Current Assets	
Checking/Savings	
122105 · Petty Cash	300.00
122106 · Transfer Station Cash	400.00
122107 · Scale House Cash	1,600.00
123110 · CB&T Checking	17,711.86
123115 · Edward Jones Investments	3,621,021.23
123120 · Bank of Jackson Hole	151,749.88
123130 · Wyo Star	1,219,867.82
123132 · Wyo Star II	15,317,999.99
123134 · Wyoming Community Bank	972,424.29
Total Checking/Savings	<u>21,303,075.07</u>
Accounts Receivable	
133141 · Accounts Rec - User Fees	245,666.45
Total Accounts Receivable	<u>245,666.45</u>
Other Current Assets	<u>18,338.68</u>
Total Current Assets	<u>21,567,080.20</u>
TOTAL ASSETS	<u>21,567,080.20</u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	<u>69,227.33</u>
Total Liabilities	<u>69,227.33</u>
Equity	
32000 · Unrestricted Net Assets	2,917,557.06
380860 · Cash Reserve	750,000.00
380970 · Closure/Post-Closure Reserve	16,466,876.00
Net Income	1,363,419.81
Total Equity	<u>21,497,852.87</u>
TOTAL LIABILITIES & EQUITY	<u>21,567,080.20</u>



memorandum

To: Andy Frey, P.E., Superintendent, Fremont County SWDD
From: Scott Lee, P.E.
cc: Fremont County SWDD Board
Date: April 12, 2021
Re: Project Updates for April 19, 2021 Board Meeting

The following information is provided to update the Board of the Fremont County Solid Waste Disposal District (District) regarding the status of various projects that are being managed by Trihydro Corporation (Trihydro), and associated activities associated with the Wyoming Department of Environmental Quality (DEQ), Solid and Hazardous Waste Division (SHWD), Water Quality Division (WQD), and Air Quality Division (AQD). The information provided is generally limited to activity during the previous month.

Sand Draw, Shoshoni, Lander, and Dubois Landfills – 2020-2021 Environmental Activities and Monitoring (Task Order 10-028 / Trihydro Project 09Y-008-006)

First quarter methane monitoring was conducted at the Dubois, Lander, and Sand Draw Landfills on March 8, 2021. The semiannual methane and groundwater monitoring event is scheduled to take place the week of April 12, 2021. We may also be on site for one day the following week.

Technical Assistance (Task Order 10-027 / Trihydro Project 09Y-005-007)

Technical assistance activities during the previous month included:

- A project status report was prepared for the monthly Board meeting.
- Trihydro will be conducting PFAS sampling at both Lander and Sand Draw during the routine monitoring events scheduled for the week of April 12, 2021. Extra time may be required to collect these samples alongside the routine samples. However, we do not currently expect to be spending more days on site than usual.
- Trihydro has evaluated and prepared a recommended scope and budgeting costs for the 2021-2022 FY. These were submitted to Mr. Andy Frey on April 7, 2021.

Shoshoni Landfill – Shoshoni Landfill Closure (Task Order 10-029 / Trihydro Project 09Y-004-003)

Trihydro has provided the project manual and drawings for the Shoshoni Landfill Closure project to the Superintendent for review. The winter storm in Texas has caused turmoil in the geosynthetics supply



Andy Frey, FCSWDD

March 8, 2021

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chain resulting in an increase in material prices. Trihydro discussed the impact material price increases will have on the project with the Superintendent and WDEQ and has recommended that the project be delayed until 2022.

Please let us know if you have any questions or need additional information. You can call me on my direct office line (307-335-3169), send me an email (slee@trihydro.com), or stop by our office at 388 Main Street, Suite C, in Lander.

Attachment:

- None

END OF MEMORANDUM

Memorandum



Date: April 13, 2021

To: Andy Frey, PE, Fremont County Solid Waste Disposal District

From: Matt Evans, PE

Subject: Progress Report – April 2021

The following provides an update on work completed by Burns & McDonnell since the last Progress Report.

Operational Efficiency Study and Strategic Plan

A preferred alternative based on the strategic plan discussions and Board survey results has been developed and will be presented at the April Board meeting. The presentation will focus on some of the larger decisions that need to be made, including the long-term operation of the Riverton Transfer Station and whether or not to build a Lander Transfer Station.

Next steps for the project include:

- Come to a consensus on a preferred mid to long-term plan for District operations.
- Understand changes to operations that may be needed if future revenue falls short from projections. Rather, which programs and services would need to be modified.
- Complete a draft report of the Operational Efficiency study.

Capacity Audits

Capacity audit reports have been completed and a summary of the reports has been developed to simplify the District's financial position and summarize future expenses. Copies of the capacity audits and the summary report are included in the Board packet.

Technical Engineering Assistance

Burns & McDonnell completed our monthly progress report, invoice and overall project management related to the administration of the project as part of this task.

Capital Improvement Plan Modeling

The CIP model is being used as the foundation for the financial analysis being completed as part of the Operational Efficiency and Strategic Planning Study. It will be updated in the second quarter of this year as the fiscal year 20-21 ends.

Dubois Landfill Cell Excavation Plan Preparation

Burns & McDonnell submitted a C&D landfill excavation bid package to the Superintendent in January.

Memorandum *(continued)*



April 13, 2021

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On-call Surveying

The following surveying was completed:

- Interim capacity audit surveys were completed at the Lander Landfill to calculate airspace utilization over a relatively short period of time (approximately one-month).
- A survey of a tire stockpile at Sand Draw was completed for future calculations of tire compaction and airspace consumption.
- Survey of the working face area of the Shoshoni Landfill was completed.

Burns & McDonnell appreciates the opportunity to work with the District. If there are any questions regarding this progress report or work that is being completed, please do not hesitate to contact me at 612-240-2094 or maevans@burnsmcd.com at your earliest convenience.

Fremont County Solid Waste Disposal District
Superintendent Report
April 13, 2021

Office/Staff/Board/Inter-Government

Office:

1. March-April 2021: The District's accountant and I have been working through the ***draft operating budget*** and have met with the Budget Committee to review. The committee is ready to make a recommendation to the Board at the April meeting.
2. The calculated tonnages and cost per ton are as follows (calculated using monthly expenses and monthly tonnages):
 - a. 2013 = \$140 per ton & 31,472 total tons
 - b. 2014 = \$176 per ton & 27,562 total tons
 - c. 2015 = \$99 per ton & 31,890 total tons
 - d. 2016 = \$103 per ton & 29,659 total tons
 - e. 2017 = \$102 per ton & 33,483 total tons
 - f. 2018 = \$106 per ton & 36,352 total tons
 - g. 2019 = \$88 per ton & 41,900 total tons
 - h. 2020 = \$89 per ton & 36,200 total tons
 - i. 2021 = 1st Quarter \$100.10 per ton & 7,778 tons

Staff:

1. December 2020: Following the approval of the ***Safety Incentive Program*** in April 2015, and the implementation July 1, 2015, the ***Riverton Area*** staff (i.e. Riverton Transfer Station, the Sand Draw Landfill, the Shoshoni Landfill, and the rural transfer stations) has not had a single lost-time accident/incident in ***5 years and 9 months***, and the ***Lander Area*** staff (i.e. Lander Landfill and the Dubois Landfill) had one lost-time accident early on but has now made it ***5 years and 3 months!!***
2. April 2021: The District hired a new scale attendant at the Lander Landfill and a new Waste Diversion attendant in the Riverton area.

Board:

1. 2020 – Below is the current list of ***Board Committees and Members***.
 - a. Recycling Committee: Jennifer Lamb, Gary Weisz, Bob Townsend, and Mark Moxley.
 - b. Health Benefit and Wage Committee: Rob Dolcater, Mike Adams, Gary Weisz, and Rick Klaproth.
 - c. Planning Committee: Bob Townsend, Steve Baumann, Jen Lamb, and Gary Weisz.
 - d. Budget Committee: Rick Klaproth, Gary Weisz, Rob Dolcater, and Mark Moxley.
 - e. WRIR Solid Waste Negotiations Committee: Rod Haper, Steve Baumann, Gary Weisz, and Mark Moxley.

Inter-Government:

1. State – February 2021: We have reached out to Representative Lloyd Larsen regarding potential legislation to address a concern with the **Wyoming Retirement System** that allows a retiree to draw unemployment benefits back on an entity they have formally retired from. This concern was recently discussed with the City of Riverton, with them expressing a concern over the same issue.
 - a. March 2021: Discussions continue with Representative Larsen on this matter. An explanation has been provided as the two different payment options available to employers and consequences associated.
2. County – *No Updates*
3. Municipalities – *No Updates*

Regulatory/Engineering/Legal/General Contractors

Regulatory:

April 2021: We continue to work through the **permit renewals** with the WDEQ on the Lander Transfer Station and the Riverton Transfer Station.

Engineering:

1. Trihydro: (1.) Environmental Monitoring (2.) Groundwater Classifications (3.) Groundwater Statistical Methodology Review (4.) Shoshoni Landfill Closure Plans and Specifications.
 - a. April 2021: Trihydro is completing the semi-annual monitoring at our sites, including sampling and analyzing the **PFOS/PFAS** on eight wells at Sand Draw and seven wells at Lander as well as the contaminated groundwater collection tank.
2. Burns and McDonnell: (1.) Capacity Audits (2.) Surveying (3.) Operational Efficiency Evaluation and Strategic Planning (4.) Dubois Excavation Plans.

Legal – **No Updates**

General Contractors – **No Updates**

Sites/Operations/Equipment:

Sites – February/March 2021: The District completed an **interim AUF** analysis at the Lander Landfill to evaluate modifications to the working face size and slope filling. The AUF was 1150 lbs/yd³.

Operations – February 2021: The District completed the **2020 Annual Report** and made the document available at the 2021 Farm and Ranch Days event in Riverton along with other information to all those in attendance.

1. February 2021: Following the February Board meeting, the 2020 Annual Report was submitted to Bob Townsend for review to modify the document into a more reader friendly version.
 - a. April 2021: No proposed revisions offered.

Equipment:

1. April 2021: The three **new backhoe units** were received and the operator training has been completed.

Miscellaneous/Upcoming Work & Events/Work in Progress:

Miscellaneous – *No Updates*

Upcoming Work & Events – *No Updates*

Thank you,

A handwritten signature in blue ink, appearing to read "Andrew Frey", with a stylized flourish at the end.

Andrew Frey, P.E.

Superintendent of Operations

Fremont County Solid Waste Disposal District

Sand Draw Landfill
2019-2020 Capacity Audit

Memorandum



Date: March 26, 2021

To: Fremont County Solid Waste Disposal District Board of Directors

From: Matt Evans, Burns & McDonnell

Subject: Fremont County Solid Waste Disposal District – Operations Summary

This memorandum presents the following:

- Summary of the District's financial position
- Summary of projected expenses and revenues
- Long-term closure/post-closure financial responsibilities
- Landfill operation metrics

Financial Position

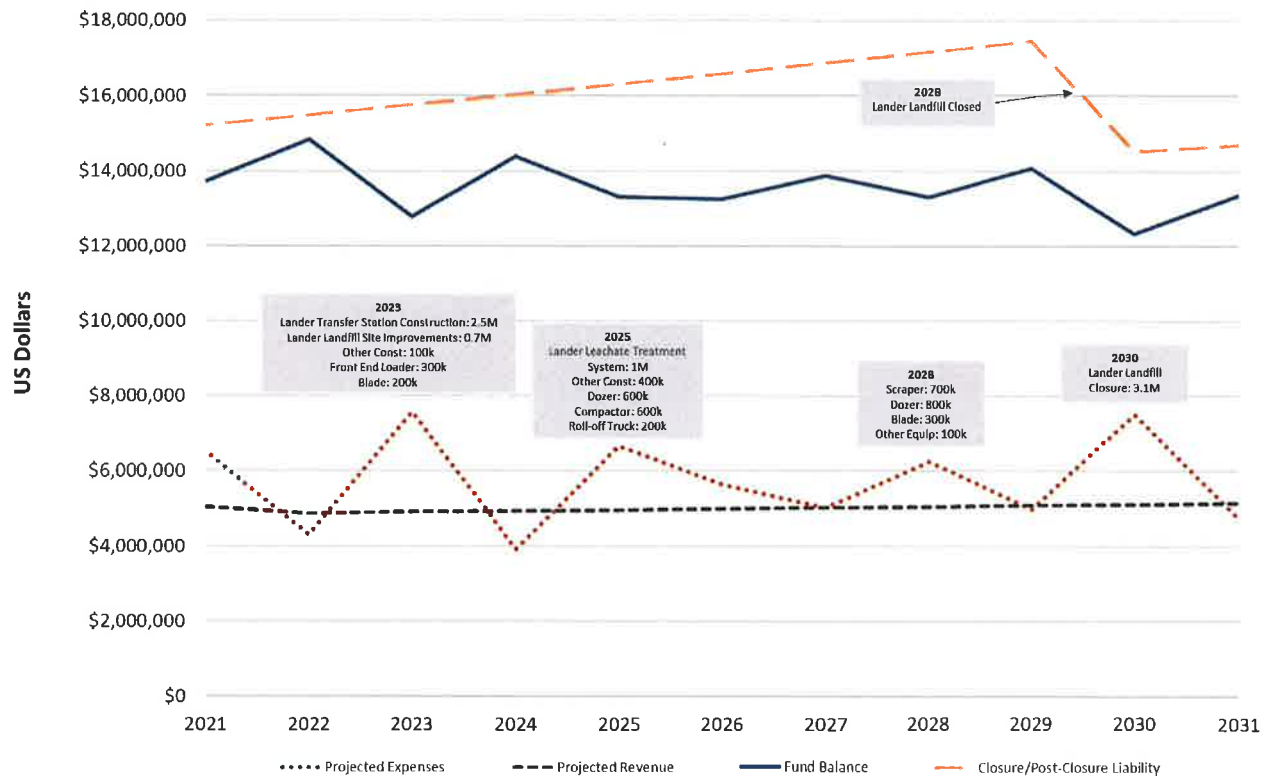
The following table summarizes the key financial considerations for the four District facilities.

Site	FY 2019- 2020 AUF (lbs/yd ³)	Projected Closure Year	Closure Cost	"Immediate" Closure Cost	Post- Closure (30-yr)	Post- Closure (50-yr)	Future Development (2021-2041)	Closure / Post Closure / Future Development Fund Balance
Lander	1,098	2028	\$2,719,660	\$2,702,000	\$3,005,560	\$3,506,487	\$5,041,346	-
Sand Draw	1,029	2054 (active area)	\$3,522,610	\$5,902,610	\$2,808,610	\$3,276,712	\$1,291,346	-
Shoshoni	N/A	2021	\$1,319,210	\$217,000	\$575,760	\$670,553	\$0	-
Dubois	542	2075	\$311,970	\$1,323,210	\$813,530	\$949,118	\$3,105,208	-
Total	-	-	\$7,873,450	\$10,144,820	\$7,203,460	\$8,402,870	\$9,437,899	\$ 16,466,876

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The 10-year financial projection for the District is presented in the following figure.

District 10-Year Financial Projection



The information shown on the figure corresponds to the following.

- *Projected Expenses:* Total labor, general operating, equipment purchases, and construction expenses.
- *Projected Revenue:* Total revenue from fees, mill levy, auto tax and all other forms of District revenue.
- *Fund Balance:* District bank account that is set aside for landfill closure, post-closure and other large District construction projects.
- *Annual Construction and Equipment Expenses:* Large construction and equipment expenses are summarized in boxes corresponding to the year of the expense.

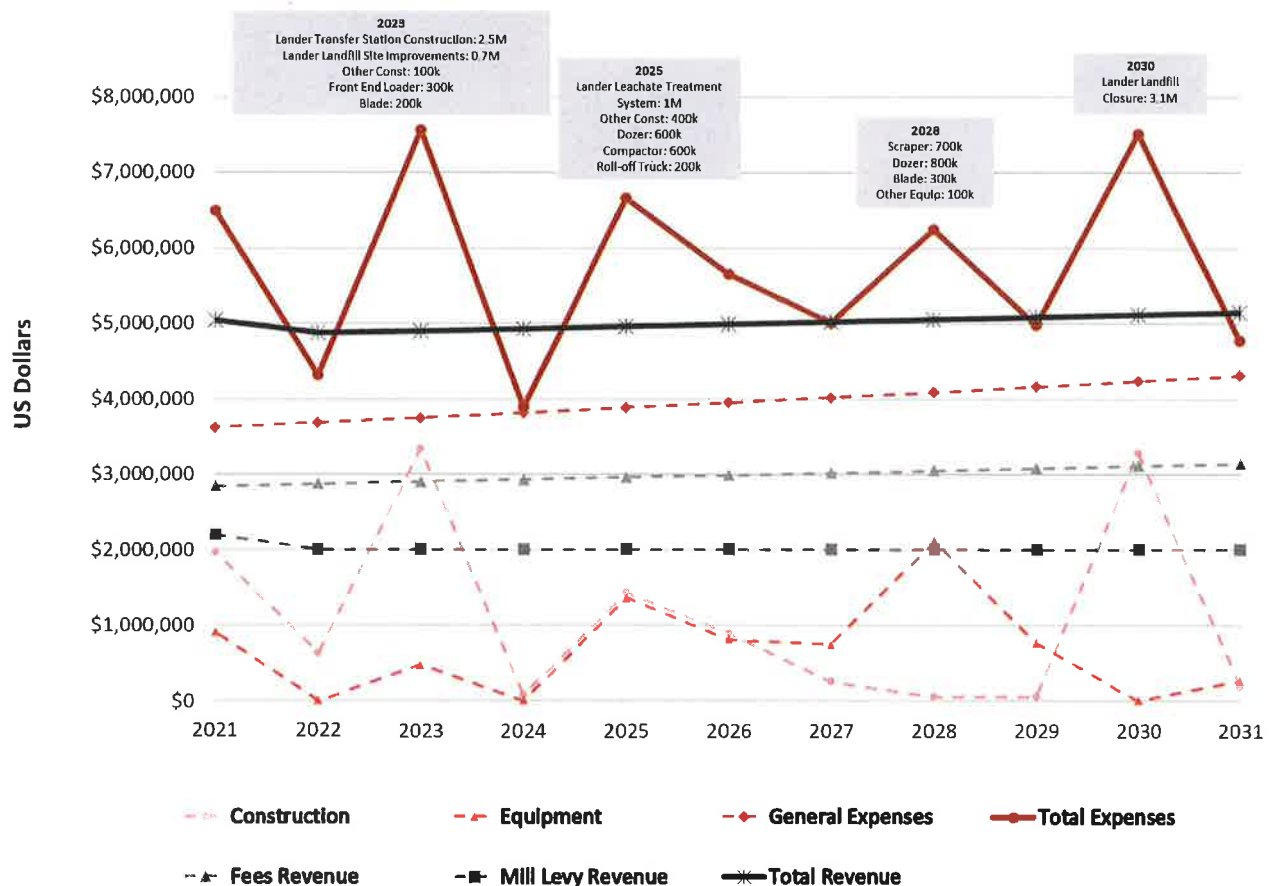
Expenses and Revenues

The projected expenses and revenues for the District are summarized on the following Figure:

March 26, 2021

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District Projected Revenues and Expenses



The information on the figure above corresponds to the following.

- **Construction:** Anticipated schedule and costs of all District construction project. Major construction projects are summarized in the boxes within the figure.
- **Equipment:** Anticipated replacement dates and costs of all District equipment. Major equipment replacements are summarized in the boxes within the figure.
- **General Expenses:** Labor, general operating, fuel, insurance and all other non-construction and non-equipment replacement expenses.
- **Total Expenses:** Sum of construction, equipment, and general expenses.
- **Fees Revenue:** Revenue from tipping fees and other customer charges (e.g., confidential disposal charges, tarp fees, etc.).

March 26, 2021

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- *Mill Levy Revenue:* Mill levy and auto tax revenue. Note that it is assumed that mill levy revenue in 2022 will be approximately \$200,000 less than 2021 and then hold at that amount through the remainder of the projection period.
- *Total Revenue:* Sum of fee revenue and mill levy revenue.

Long-Term Closure and Post-Closure Liabilities

The District's four landfills have significant closure and post-closure expenses. The following summarizes the anticipated amount and timing of those expenses.

Closure and Post-Closure Costs

	Projected Closure Date	Closure Cost	Post-Closure Costs (30-year total)	Post-Closure Costs (50-year total)
Dubois	2075	\$311,970	\$813,530	\$949,118
Lander	2028	\$2,719,660	\$3,005,560	\$3,506,487
Sand Draw	2054	\$3,522,610	\$2,808,610	\$3,276,712
Shoshoni	2021	\$1,319,210	\$575,760	\$670,553
Total Liability		\$7,873,450	\$7,203,460	\$8,402,870

Note: All costs are Present Value (2020).

The District's total closure and post-closure liability, assuming a 30-year closure period, is \$15,076,910. If the post-closure period were to extend to 50-years, the total liability increases to \$16,276,320. Costs to be incurred during the post-closure period include groundwater monitoring, erosion control, fencing, reporting, and other activities necessary to maintain the landfills after their closed and before they are stable enough to stop monitoring.

March 26, 2021

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Landfill Operation Metrics

The following table summarizes the landfill metrics for each of the four landfills for the 2019-2020 fiscal year.

2019 – 2020 Landfill Metrics

	Tons Disposed	Volume Consumed (cubic yards)	Airspace Utilization (lbs. per cubic yard)	Remaining Volume (cubic yards)	Soil Balance (cubic yards)
Dubois	578	2,132	542	186,714	99,000
Lander	31,829	57,991	1,098	480,224	92,000
Sand Draw	3,653	7,104	1,029	2,364,051	341,790
Shoshoni¹	NA	12,854	NA	5,864	29,700

Notes:

1. Shoshoni landfill does not have a scale. All waste received is measured in volume. All three other landfills weigh waste received prior to disposal.

2. Soil balance is the net volume of soil available onsite for all future landfill operations. All four landfills are in a surplus situation.

NA = Not Applicable

lbs = pounds

The following summarizes the information presented in the table above.

Tons Disposed: The weighed amount of waste disposed of in the landfill during the audited year.

Volume Consumed: The airspace consumed in the landfill during the audited year.

Airspace Utilization: An industry standard metric for measuring the efficiency of filling operations. The higher the airspace utilization the longer the more waste that can be disposed of in the landfill footprint; thus, extending the life of the landfill and delaying construction of a new landfill. A good landfill operation maintains an airspace utilization between 1,000 and 1,200 lbs per cubic yard. Lower airspace utilizations can occur at construction and demolition debris landfills (e.g., the Dubois Landfill) due to the bulky nature of the waste received.

Remaining Volume: The remaining permitted airspace in the landfill at the end of the audited year.

Soil Balance: The volume of onsite soil that can be used for cover operations less the amount of soil that is needed for cover operations.

Closing

Additional details, including assumptions, are included in the annual landfill capacity reports. Figures and tables used to complete landfill calculations are also included.



February 10, 2021

Mr. Andrew Frey, P.E.
Superintendent
Fremont County Solid Waste Disposal District
P.O. Box 1400
Lander, WY 82520

Re: FY 2019-2020 Capacity Audit for Sand Draw Landfill, Fremont County, Wyoming

Dear Mr. Frey:

Burns & McDonnell has completed volume and airspace utilization calculations for the Sand Draw Landfill in accordance with Authorization No. 28 dated July 20, 2020. The calculations are based on the July 11, 2020, survey completed by William H. Smith & Associates, Inc. and compared to the July 12, 2019, survey and the current permitted final cover grades.

Attached are drawings showing the existing conditions, final cover plan, and the cut/fill depths between the following surfaces:

- ▶ Figure 1 – 2020 Existing Conditions
- ▶ Figure 2 – Final Cover Plan (Trihydro Corporation)
- ▶ Figure 3 – 2020 Airspace Consumed Isopach (July 2020 Survey over July 2019 Survey)
- ▶ Figure 4 – 2020 Airspace Remaining Isopach (Final Cover Plan over July 2020 Survey)

Also attached is a table showing the remaining fill projections based on the assumptions outlined in this letter, and closure and post-closure tables.

AIRSPACE UTILIZATION

The results of the calculations were used to obtain the current airspace utilization factor (AUF). The volumes were calculated using AutoCAD Civil 3D.

The calculated AUF for the landfill over the period from July 12, 2019, and July 11, 2020, was 1,029 pounds per cubic yard (lb/cy). The AUF was calculated by dividing the total weight of waste disposed by the total consumed airspace (including daily cover soil) over the same period. Based on waste receipts over the FY 2019- 2020 the total tonnage placed in the landfill during this period was 3,653 tons. From the annual survey, the total consumed airspace was 7,104 cubic yards.

As discussed below in the Future Air Space Consumption Rates and Site Life section, the majority of the MSW disposal at the Sand Draw Landfill was suspended on July 1, 2014, and diverted to the Lander Landfill.

LANDFILL CAPACITY

Based on the current permitted final cover contours compared to the July 11, 2020, survey, the remaining waste and daily cover capacity of the Sand Draw Landfill, as currently permitted, is 2,364,051 cubic yards. This remaining capacity does not include final cover or intermediate cover. Soil stockpiles along the east side of the permitted landfill are partially in the landfill footprint and will add a few thousand yards of capacity to the landfill when moved in the future as part of landfill operations.

The remaining capacity of the Sand Draw Landfill is greatly increased when the expansion area is included. The conceptual design of the expansion area has an estimated capacity of approximately 4,556,000 cubic yards; thus, the Sand Draw Landfill has approximately 6,920,051 cubic yards of capacity remaining when the expansion area is considered.

Burns & McDonnell reviewed the expansion area conceptual design as part of the 2015 capacity audit and found that the volume calculations appear reasonable. It was noted by the Burns & McDonnell team that there appear to be opportunities to get even more capacity out of the expansion area than shown in the current conceptual design. This would be done by filling the areas between the valleys created by the future expansion cells. Therefore, it is our opinion that the current expansion area capacity should be considered conservative.

FUTURE AIR SPACE CONSUMPTION RATES AND SITE LIFE

The amount of waste that was landfilled at the Sand Draw Landfill in FY 2019-2020 was 3,653 tons.¹ This is a slight decrease from the 3,776 tons received in the previous fiscal year.

In 2014 MSW that was typically received at the Sand Draw Landfill was diverted to the Lander Landfill. The Sand Draw MSW will continue to be diverted to Lander until the Lander Landfill is closed. Capacity at the Lander Landfill is anticipated to be reached in 2028 and the Lander waste would then be diverted to the Sand Draw Landfill at that time. The following tonnages of waste have been received at Sand Draw since 2011:

- ▶ July 1, 2011 to June 30, 2012 = 27,358 tons
- ▶ July 1, 2012 to June 30, 2013 = 24,944 tons
- ▶ July 1, 2013 to June 30, 2014 = 19,059 tons

¹ Included in the total tonnage landfilled in FY 2020 is MSW (150 tons), C&D (3,117 tons), biowaste (0.22 tons), animal wastes (154 tons), Carcasses (14 tons), confidential records (11 tons) and Asbestos Containing Material (208 tons). Note that the majority of MSW waste to the Sand Draw Landfill was rerouted to the Lander Landfill beginning July 1, 2014.

- ▶ July 1, 2014 to June 30, 2015 = 3,629 tons (began sending waste to Lander)
- ▶ July 1, 2015 to June 30, 2016 = 4,466 tons
- ▶ July 1, 2016 to June 30, 2017 = 3,038 tons
- ▶ July 1, 2017 to June 30, 2018 = 3,402 tons
- ▶ July 1, 2018 to June 30, 2019 = 3,705 tons
- ▶ July 12, 2019 to July 11, 2020 = 3,688 tons

For purposes of calculating the remaining landfill life, the FY 2020 rate of waste received was used as the starting year tonnage for projecting waste receipts through 2027. In 2028, the total waste being disposed of at both Lander and Sand Draw was used. A 1.0% annual growth rate was used to project future annual waste receipts. Projections are based on the historic average airspace utilization factor at Sand Draw of 922 lb/cy before the Lander Landfill closure. An AUF of 1,000 lb/cy represented the waste filling after the Lander Landfill closure. The estimation that the AUF will consistently hold near 1,000 lb/cy is anticipated due to the landfill's change to primarily accept MSW, the significant increase in MSW tonnage, and the plan to operate the landfill as an area fill.

Based on the growth rate, the AUF assumptions discussed above, and the final cover design included in the 2017 permit, the landfill will reach capacity in 2054. When the expansion area volume is included, the Sand Draw Landfill will reach capacity in 2092. The attached Remaining Airspace Table presents the airspace utilization projections.

SOIL BALANCE

Soil balance calculations were completed by comparing the amount of soil required for landfill operations to the amount of soil available onsite. The following summarizes the soil required and available for the Landfill as currently permitted.

Soil Required

Daily Cover Soil – The waste to daily cover soil is assumed to be 4:1 (i.e., 20 percent of the waste mass below the intermediate cover is daily cover soil).² Based on the remaining site life calculations discussed above, there is approximately 2,364,051 cubic yards of waste and daily

² A waste to daily cover soil ratio is estimated to be 4:1 when the Landfill is fully open. During the period when the Landfill is closed except for waste in the immediate vicinity of the Landfill, the waste to daily cover soil ratio will be close to 2:1 due to the operational changes associated with operating a landfill that receives small amounts of waste. Because the volume received during this period is minimal compared to the overall volume of the Landfill, the impact of the lower waste to soil ratio is not considered in the site life calculations.

cover airspace remaining at the Landfill; thus, approximately 474,700 cubic yards of soil are needed for daily cover in the landfill operation.

- ▶ Intermediate Cover Soil – The landfill is required to have intermediate cover over the waste mass prior to final cover. The amount of intermediate cover soil needed, based on the area that remains to be closed and a 12-inch intermediate cover, is 109,000 cubic yards.
- ▶ Final Cover Soil – The amount of soil required to close the landfill is estimated to be 354,450 cubic yards based on the currently permitted cover profile that includes 39-inches of lightly compacted classified fill.
- ▶ Total Soil Requirements – The total soil requirement for the Sand Draw Landfill as currently permitted is 938,210 cubic yards.

Soil Available

- ▶ Existing Soil Stockpiles – Previous surveys identified existing soil stockpiles. The volumes of these stockpiles were calculated to be approximately 80,000 cubic yards.
- ▶ Other Borrow Areas – The FY 2013 capacity audit (Trihydro Corporation 2013) identified potential soils from the expansion area with a volume of approximately 1,200,000 cubic yards.
- ▶ Total Soil Available – Based on the estimates provided above, the Sand Draw Landfill has an available soil volume of approximately 1,280,000 cubic yards.

Soil Balance

Based on the soil required estimates and the soil available estimates described above, the Sand Draw Landfill has a soil surplus of approximately 341,790 cubic yards. It should be noted that the future expansion area will need another borrow source for daily cover operations from area onsite that is not within the footprint of the expansion area.

CLOSURE AND POST-CLOSURE COST ESTIMATES

Burns & McDonnell completed cost estimates for closure and post-closure management of the Sand Draw Landfill as currently permitted. The estimated present value of the closure cost for the Landfill is \$3,522,610. This is an increase of \$67,810 compared to the 2019 estimate. The estimated present value of the post-closure cost estimate is \$2,808,610. This is a \$54,880 increase compared to the 2019 estimate. Both the closure and post-closure estimates are due to inflationary construction cost adjustments.

The post-closure cost estimate is based on an assumed 30-year post-closure period. The closure and post closure cost estimates are attached.

It should be noted that Federal EPA guidelines require states to enforce a **minimum** 30-year post closure period. It is likely that post-closure will extend beyond 30-years – although at a lower cost. For post-closure to come to an end the landfill needs to be stable and not producing



Mr. Andrew Frey, PE
February 10, 2021
Page 5

leachate and/or landfill gas at significant levels that warrant monitoring. For comparison, the post-closure cost of 50-years, assuming a 75% reduction in annual post-closure costs due to reduced sampling and property management costs for years 31- 50, is \$3,276,712.

CLOSING

Should you have any questions regarding this letter report, please do not hesitate to contact Matt Evans at 952-656-3629 or at maevans@burnsmcd.com.

Sincerely,

Burns & McDonnell

A handwritten signature in black ink, appearing to read "Matthew J. Evans". The signature is fluid and cursive, with a large, stylized "M" and "E".

Matthew J. Evans, PE
Senior Civil Engineer

Tables

SAND DRAW LANDFILL-2020 REMAINING AIRSPACE

Date: 10/23/2020

Sand Draw-Waste Received Tonnage (07/12/19 to 07/11/20)=

Lander-Predicted Waste Received Tonnage (2028) =

Predicted Future Generation Growth =

Sand Draw Average Airspace Utilization Factor (AUF) =

Sand Draw and Lander- Average Airspace Utilization Factor (AUF) =

Currently Permitted Area-Remaining Waste Capacity (without final and intermediate cover) =

3,653	tons
34,467	tons
1%	
868	lb/cy
1,000	lb/cy
2,364,051	cy

Remaining Airspace Table

Year	Total Tonnage (Sand Draw)	Total Tonnage (Lander) ¹	Annual Airspace Consumed (cy)	Remaining Current Permitted Capacity (cy)
2020	1,722	0	3,968	2,360,083
2021	3,690	0	8,506	2,351,577
2022	3,727	0	8,591	2,342,986
2023	3,764	0	8,677	2,334,310
2024	3,802	0	8,763	2,325,547
2025	3,840	0	8,851	2,316,696
2026	3,878	0	8,939	2,307,756
2027	3,917	0	9,029	2,298,727
2028	3,956	34,467	76,845	2,221,882
2029	3,996	34,811	77,614	2,144,268
2030	4,036	35,159	78,390	2,065,878
2031	4,076	35,511	79,174	1,986,704
2032	4,117	35,866	79,966	1,906,738
2033	4,158	36,225	80,765	1,825,973
2034	4,199	36,587	81,573	1,744,400
2035	4,241	36,953	82,389	1,662,011
2036	4,284	37,323	83,213	1,578,798
2037	4,327	37,696	84,045	1,494,754
2038	4,370	38,073	84,885	1,409,868
2039	4,414	38,453	85,734	1,324,134
2040	4,458	38,838	86,591	1,237,543
2041	4,502	39,226	87,457	1,150,086
2042	4,547	39,619	88,332	1,061,754
2043	4,593	40,015	89,215	972,539
2044	4,639	40,415	90,107	882,431
2045	4,685	40,819	91,008	791,423
2046	4,732	41,227	91,919	699,504
2047	4,779	41,640	92,838	606,667
2048	4,827	42,056	93,766	512,901
2049	4,875	42,476	94,704	418,197
2050	4,924	42,901	95,651	322,546
2051	4,973	43,330	96,607	225,939
2052	5,023	43,764	97,573	128,365
2053	5,073	44,201	98,549	29,816
2054	5,124	44,643	99,535	-69,718 <== Capacity Reached in 2054
2055	5,175	45,090	100,530	-170,248
2056	5,227	45,541	101,535	-271,783
2057	5,279	45,996	102,551	-374,334
2058	5,332	46,456	103,576	-477,910
2059	5,385	46,920	104,612	-582,522

Notes:

1. Calculations assume waste from Lander will be diverted to the Sand Draw Landfill when Lander reaches capacity.

SAND DRAW LANDFILL-2020 REMAINING AIRSPACE

Date: 10/23/2020

Sand Draw-Waste Received Tonnage (07/12/19 to 07/11/20)=
 Lander-Predicted Waste Received Tonnage (2028) =
 Predicted Future Generation Growth =
 Sand Draw Average Aispace Utilization Factor (AUF) =
 Sand Draw and Lander- Average Airspace Utilization Factor (AUF) =
 Currently Permitted Area-Remaining Waste Capacity (without final and intermediate cover) =
 Expansion Area-Remaining Waste Capacity (without final and intermediate cover) =
 Ultimate Remaining Waste Capacity (without final and intermediate cover) =

3,653	tons
34,467	tons
1%	
868	lb/cy
1,000	lb/cy
2,364,051	cy
4,556,000	cy
6,920,051	cy

Remaining Airspace Table

Year	Total Tonnage (Sand Draw)	Total Tonnage (Lander) ¹	Annual Airspace Consumed (cy)	Remaining Ultimate Capacity (cy)
2020	1,722	0	3,968	6,916,083
2021	3,690	0	8,506	6,907,577
2022	3,727	0	8,591	6,898,986
2023	3,764	0	8,677	6,890,310
2024	3,802	0	8,763	6,881,547
2025	3,840	0	8,851	6,872,696
2026	3,878	0	8,939	6,863,756
2027	3,917	0	9,029	6,854,727
2028	3,956	34,467	76,845	6,777,882
2029	3,996	34,811	77,614	6,700,268
2030	4,036	35,159	78,390	6,621,878
2031	4,076	35,511	79,174	6,542,704
2032	4,117	35,866	79,966	6,462,738
2033	4,158	36,225	80,765	6,381,973
2034	4,199	36,587	81,573	6,300,400
2035	4,241	36,953	82,389	6,218,011
2036	4,284	37,323	83,213	6,134,798
2037	4,327	37,696	84,045	6,050,754
2038	4,370	38,073	84,885	5,965,868
2039	4,414	38,453	85,734	5,880,134
2040	4,458	38,838	86,591	5,793,543
2041	4,502	39,226	87,457	5,706,086
2042	4,547	39,619	88,332	5,617,754
2043	4,593	40,015	89,215	5,528,539
2044	4,639	40,415	90,107	5,438,431
2045	4,685	40,819	91,008	5,347,423
2046	4,732	41,227	91,919	5,255,504
2047	4,779	41,640	92,838	5,162,667
2048	4,827	42,056	93,766	5,068,901
2049	4,875	42,476	94,704	4,974,197
2050	4,924	42,901	95,651	4,878,546
2051	4,973	43,330	96,607	4,781,939
2052	5,023	43,764	97,573	4,684,365
2053	5,073	44,201	98,549	4,585,816
2054	5,124	44,643	99,535	4,486,282
2055	5,175	45,090	100,530	4,385,752
2056	5,227	45,541	101,535	4,284,217
2057	5,279	45,996	102,551	4,181,666
2058	5,332	46,456	103,576	4,078,090
2059	5,385	46,920	104,612	3,973,478
2060	5,439	47,390	105,658	3,867,820
2061	5,494	47,864	106,715	3,761,106
2062	5,549	48,342	107,782	3,653,324
2063	5,604	48,826	108,860	3,544,464
2064	5,660	49,314	109,948	3,434,516
2065	5,717	49,807	111,048	3,323,469
2066	5,774	50,305	112,158	3,211,311
2067	5,832	50,808	113,280	3,098,031
2068	5,890	51,316	114,412	2,983,619
2069	5,949	51,829	115,557	2,868,062
2070	6,008	52,348	116,712	2,751,350
2071	6,068	52,871	117,879	2,633,471
2072	6,129	53,400	119,058	2,514,413
2073	6,190	53,934	120,249	2,394,164
2074	6,252	54,473	121,451	2,272,713
2075	6,315	55,018	122,666	2,150,047
2076	6,378	55,568	123,892	2,026,155
2077	6,442	56,124	125,131	1,901,024
2078	6,506	56,685	126,383	1,774,641
2079	6,571	57,252	127,646	1,646,995
2080	6,637	57,824	128,923	1,518,072
2081	6,703	58,403	130,212	1,387,860
2082	6,770	58,987	131,514	1,256,346
2083	6,838	59,577	132,829	1,123,517
2084	6,906	60,172	134,158	989,359
2085	6,976	60,774	135,499	853,860
2086	7,045	61,382	136,854	717,006
2087	7,116	61,996	138,223	578,783
2088	7,187	62,616	139,605	439,178
2089	7,259	63,242	141,001	298,177
2090	7,331	63,874	142,411	155,766
2091	7,405	64,513	143,835	11,931
2092	7,479	65,158	145,273	-133,342
2093	7,553	65,810	146,726	-280,068

<== Capacity Reached in 2092

Notes:

1. Calculations assume waste from Lander will be diverted to the Sand Draw Landfill when Lander reaches capacity.

**Closure Cost Estimate
Sand Draw Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
Mobilization & General Site Preparation						
1	Mobilization, Demobilization, Bonding, Insurance	8	%	2,191,070	175,290	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	2,191,070	109,550	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	5	DAY	2,270	11,350	Judgement; includes one heavy piece of equipment and one operator.
					\$296,190	
Site Grading and Associated Earthwork						
4	Grade intermediate cover	65	ACRE	1,710	111,150	HCCD 31 22 16.10 3300; portion of 77-acre closure graded prior project
					\$111,150	
Final Cover						
5	Load, haul, and place final cover soil from on-site stockpile	354,250	CY	5.10	1,806,680	Judgement based on similar projects; 67-acre closure at 6.5' thick cap
					\$1,806,680	
Methane system						
6	Purchase and install geocomposite strips		SF	0.63		The water balance final cover system does not include a barrier layer, so landfill gas can diffuse through the soil profile to the ambient air.
7	Purchase and install methane vents		EA	2,270		
8	Purchase and install methane probes		EA	2,270		
					\$0	
Site Reclamation						
9	Grade disturbed areas	67	ACRE	1,710	114,570	HCCD 31 22 16.10 3300; all disturbed areas
10	Revegetate	67	ACRE	2,270	152,090	Judgement; similar projects, includes soil amendments
					\$266,660	
Miscellaneous						
11	Survey Control and As-Built documentation	1.0	LS	6,580	6,580	WDEQ SWG #12 worksheet #1 (10/12/94); adjusted for inflation
					\$6,580	
Engineering and Construction Management						
12	General public notification	1	LS	3,810	3,810	Judgement
13	Engineering and Bid Administration	5%	LS	2,487,260	124,360	Judgement, assumes 5% of construction cost
14	Construction Quality Assurance	10%	LS	2,487,260	248,730	Judgement, assumes 10% of construction cost
15	Construction Management	8%	LS	2,487,260	198,980	Judgement, assumes 8% of construction cost
				SUBTOTAL	\$575,880	
SUBTOTAL					3,063,140	
CONTINGENCY					15%	459,470
TOTAL CLOSURE COSTS						\$3,522,610

ASSUMPTIONS & LIMITATIONS

- Pricing is for 2020 present value unless otherwise noted.
- Extended prices are rounded to the nearest \$10.

***Units:**

AC = acre
CY = cubic yard
DAY = day
EA = each
LF = linear foot
LS = lump sum
SF = square foot
SY = square yard
YR = year

HCCD = RSMeans Heavy Construction Cost Data, 2010; adjusted for inflation
Judgement - Professional judgement or estimation by Burns & McDonnell

**Post-Closure Cost Estimate
Sand Draw Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
1	Recordkeeping	30	YR	3,710	111,300	Judgement
2	Post-closure site Inspections	30	YR	870	26,100	WDEQ SWG 12, adjusted for inflation
3	Methane Monitoring	30	YR	3,430	102,900	Judgement, based on similar projects
4	Groundwater Monitoring	30	YR	36,080	1,082,400	2014 environmental monitoring contract
5	Operation of the future leachate collection system	30	YR	23,350	700,500	Judgement
6	Survey Control for settlement documentation	30	DAY	1,220	36,600	Judgement (ave 0.5 PLS @ 160, 8 hr GPS tech @\$100, 0.5hr datamgr
7	Petition to terminate post-closure period	1	LS	3,710	3,710	@\$100, \$100 OCDs per day) one per year
8	Grounds maintenance	30	YR	3,710	111,300	Judgement
9	Drainage Channel maintenance costs	30	YR	3,710	111,300	Judgement; includes routine maintenance, revegetation of bare spots
10	Fence Maintenance Costs	8000	LF	14	112,060	Judgement
11	Fence Removal Costs	8000	LF	2.33	18,680	WDEQ SWG 12, adjusted for inflation
12	Groundwater monitoring well abandonment	29	EA	680	19,720	WDEQ SWG 12, adjusted for inflation
13	Methane probe abandonment	10	EA	570	5,700	Judgement, based on similar projects
						Judgement based on previous experience with probe abandonment
SUBTOTAL					2,442,270	
CONTINGENCY					366,340	
TOTAL POST-CLOSURE COSTS					2,808,610	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2020 present value unless otherwise noted.
- 2 Extended prices are rounded to the nearest \$100; however, in cases where the nearest \$100 value is \$0, an extended price of \$100 has been assigned.

***Units:**

DAY = day
EA = each
LF = linear foot
LS = lump sum
YR = year

Judgement - Professional judgement or estimation by Burns & McDonnell
SWG - Solid Waste Guideline
WDEQ - Wyoming Department of Environmental Quality

Figures

no.	date	by	chkd	description
A	10/23/2020	SP	NJE	

NOTES:

1. SITE TOPOGRAPHY IS BASED ON THE 2010 SURVEY. ADDITIONAL SURVEY PERFORMED ON OCTOBER 13, 2020 FOR AREAS INDICATED.
2. SITE TOPOGRAPHY MAY VARY DUE TO OWNER'S CONSTRUCTION, CONSTRUCTION ACTIVATION, STOCKPILING, AND WASTE DISPOSAL.
3. INDEX CONTOUR INTERVAL IS TWO FEET.

LEGEND:

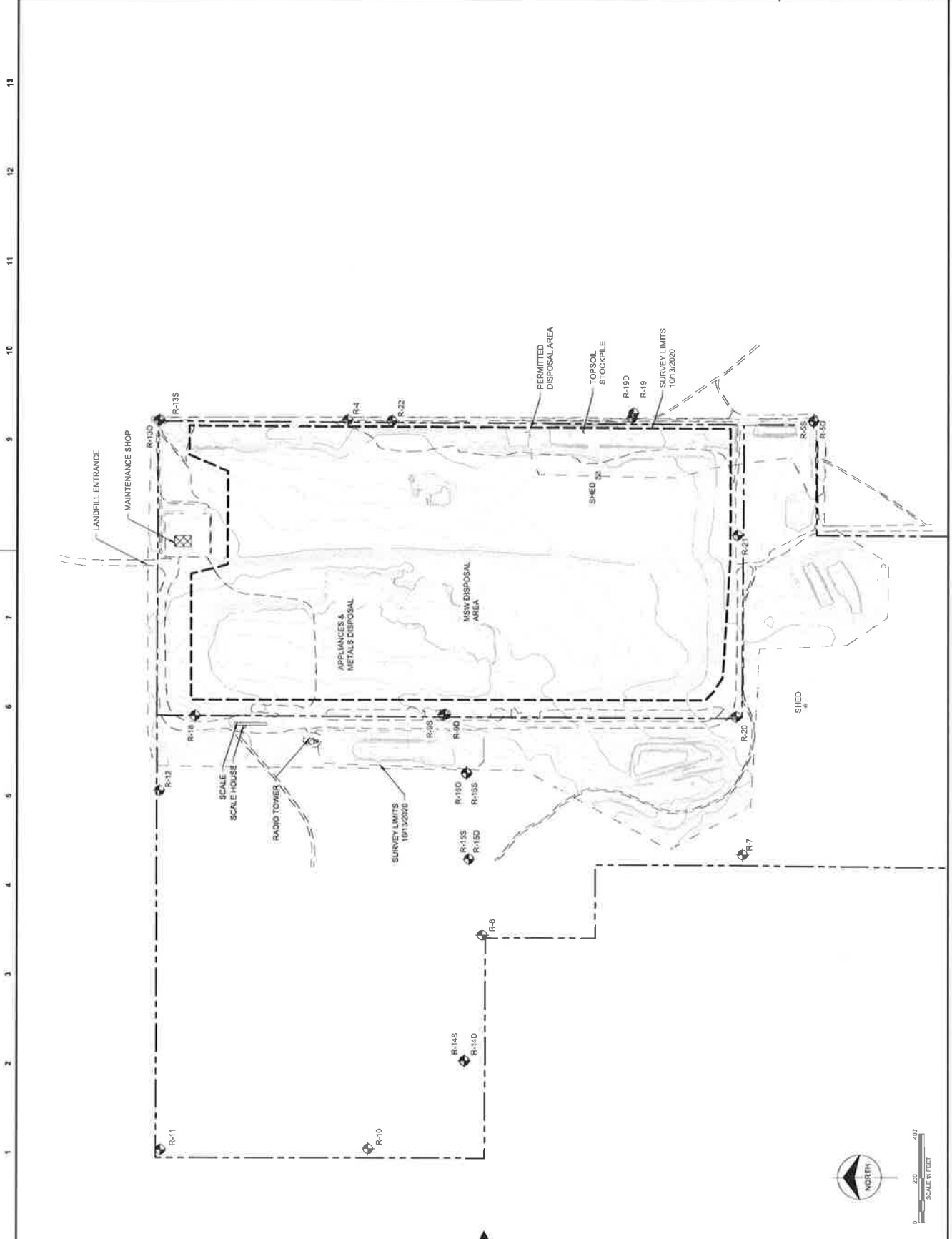
- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- EXISTING CONTOURS



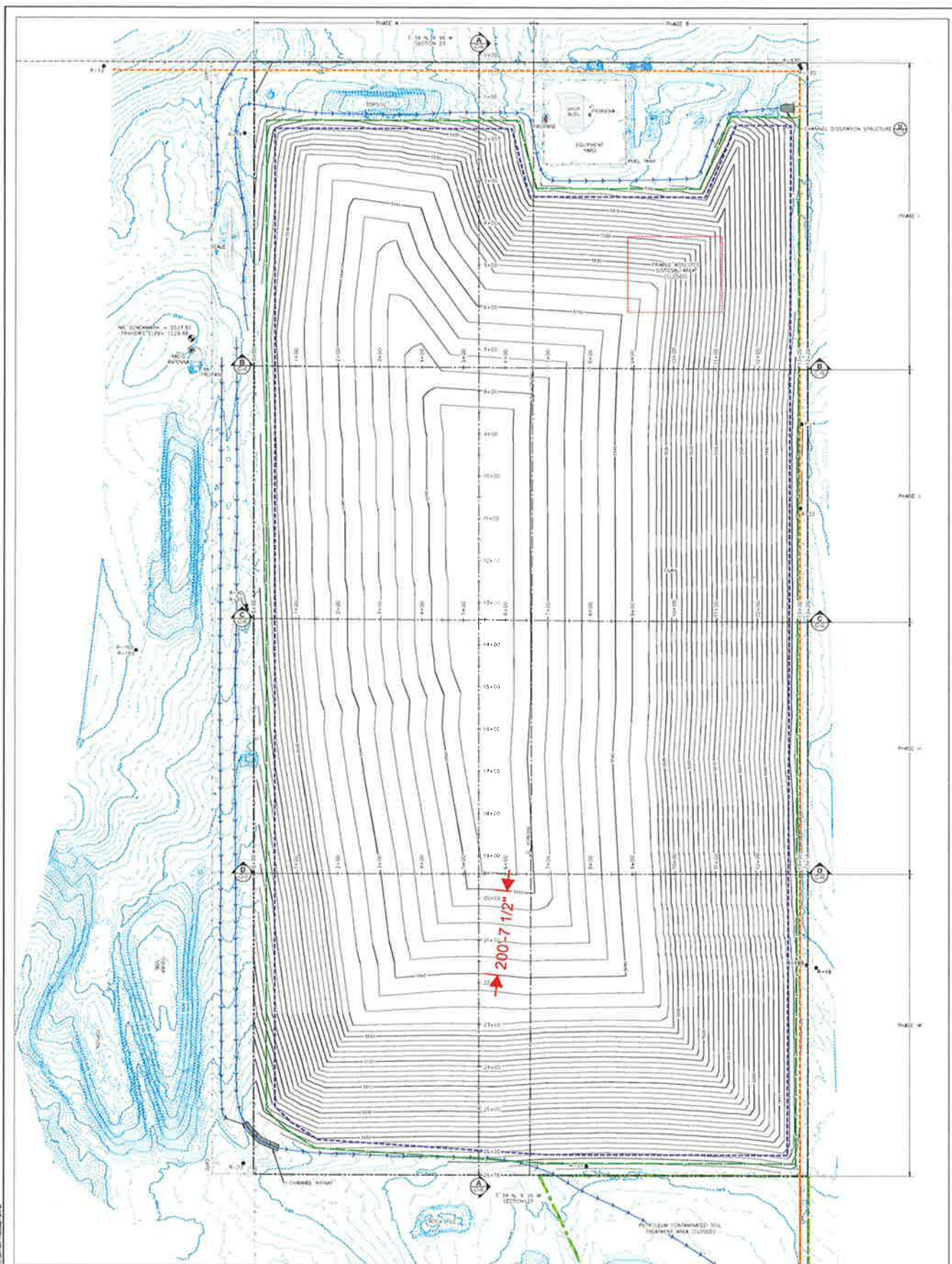
date	designed	checked	approved
OCTOBER 2020	S. PASHUPATHAL	M. EVANS	



FREMONT COUNTY	
2020 EXISTING CONDITIONS	
project	125750
contract	
FIGURE 1	A
sheet	1 of 4
File: Fig 1 - Existing Conditions_Solid Waste Disposal District.dwg	



0 200 400
SCALE IN FEET



FOR PERMIT
PURPOSES ONLY



FIG 2
2 OF 4

TOP OF FINAL COVER +
ORIGINAL AREA

LIFETIME OPERATING PERMIT APPLICATION
SAND DRAW LANDFILL
FREMONT COUNTY, WYOMING



DRAWN BY REP
CHECKED BY KS
DATE: 4/5/2017
SCALE: 1" = 100'

WARNING
IF THIS BAR DOES NOT
MEASURE 1" IN LENGTH
THEN DRAWING IS NOT
AT INTENDED SCALE

FILE: 09Y-SDLF-FINALGRAD-ORIGINAL

REV	DATE	DESCRIPTION	BY	CHKD
1	4/20/18	ISSUE FOR REGULATORY REVIEW	REP	KS
0	4/20/17	ISSUE FOR REVIEW	REP	KS
REVISIONS				

REV 1

no.	date	by	ctd	description
A	12/10/20	SP	MJE	

NOTES

1. THE ISOPACH SURVEY REPRESENTS THE CUT/FILL BETWEEN THE JULY 11, 2020 SURVEY, AND THE JULY 10, 2019 SURVEY.
2. TOPOGRAPHY SHOWN INSIDE THE AIRSPACE BOUNDARY IS FROM AN ADDITIONAL SURVEY PERFORMED ON OCTOBER 13, 2020.
3. CONTOUR INTERVALS ARE TWO FOOT.

ISOPACH

- CUT
- FILL
- CY = CUBIC YARDS

LEGEND

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- EXISTING CONTOURS
- PROPERTY BOUNDARY



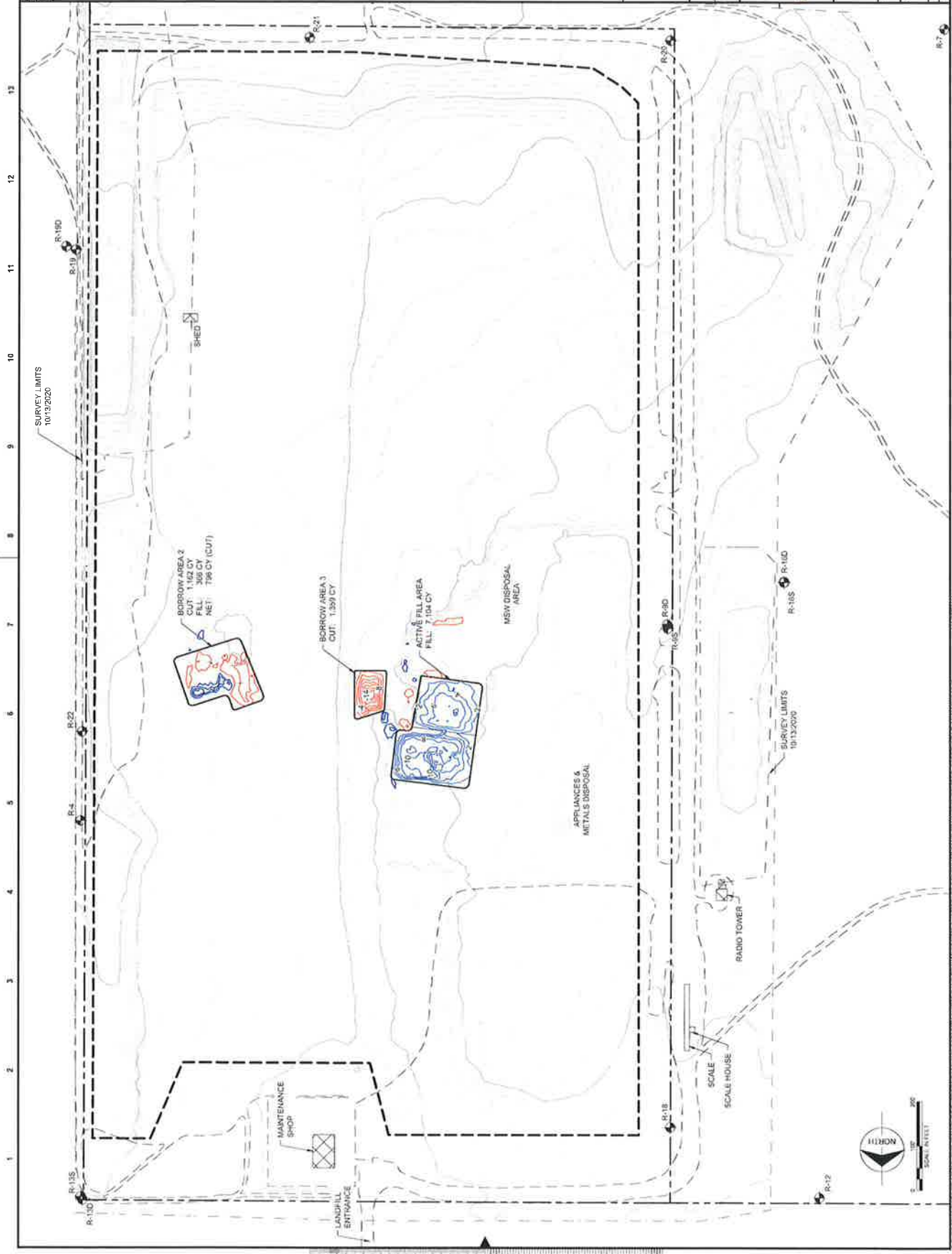
date	designed	checked	approved
FEBRUARY 2021	S. PASHUPATHAL	M. EVANS	



Fremont County
Solid Waste Disposal District

project	contract	drawing	figure	rev.
2020 CONSUMED AIRSPACE	125750	FIGURE 3	A	

sheet	of	notes
3	4	304625



Lander Landfill
2019-2020 Capacity Audit

Memorandum



Date: March 26, 2021

To: Fremont County Solid Waste Disposal District Board of Directors

From: Matt Evans, Burns & McDonnell

Subject: Fremont County Solid Waste Disposal District – Operations Summary

This memorandum presents the following:

- Summary of the District's financial position
- Summary of projected expenses and revenues
- Long-term closure/post-closure financial responsibilities
- Landfill operation metrics

Financial Position

The following table summarizes the key financial considerations for the four District facilities.

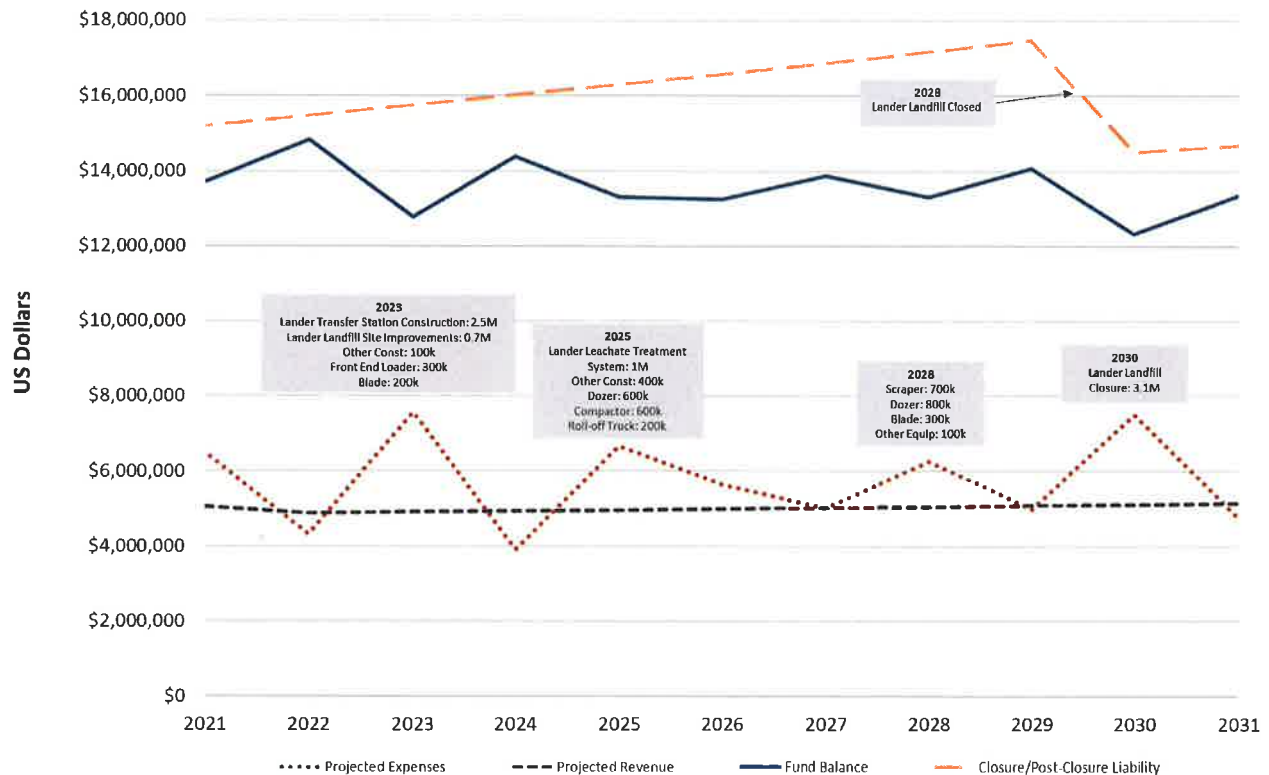
Site	FY 2019- 2020 AUF (lbs/yr ³)	Projected Closure Year	Closure Cost	"Immediate" Closure Cost	Post- Closure (30-yr)	Post- Closure (50-yr)	Future Development (2021-2041)	Closure / Post Closure / Future Development Fund Balance
Lander	1,098	2028	\$2,719,660	\$2,702,000	\$3,005,560	\$3,506,487	\$5,041,346	-
Sand Draw	1,029	2054 (active area)	\$3,522,610	\$5,902,610	\$2,808,610	\$3,276,712	\$1,291,346	-
Shoshoni	N/A	2021	\$1,319,210	\$217,000	\$575,760	\$670,553	\$0	-
Dubois	542	2075	\$311,970	\$1,323,210	\$813,530	\$949,118	\$3,105,208	-
Total	-	-	\$7,873,450	\$10,144,820	\$7,203,460	\$8,402,870	\$9,437,899	\$ 16,466,876

March 26, 2021

Page 2

The 10-year financial projection for the District is presented in the following figure.

District 10-Year Financial Projection



The information shown on the figure corresponds to the following.

- **Projected Expenses:** Total labor, general operating, equipment purchases, and construction expenses.
- **Projected Revenue:** Total revenue from fees, mill levy, auto tax and all other forms of District revenue.
- **Fund Balance:** District bank account that is set aside for landfill closure, post-closure and other large District construction projects.
- **Annual Construction and Equipment Expenses:** Large construction and equipment expenses are summarized in boxes corresponding to the year of the expense.

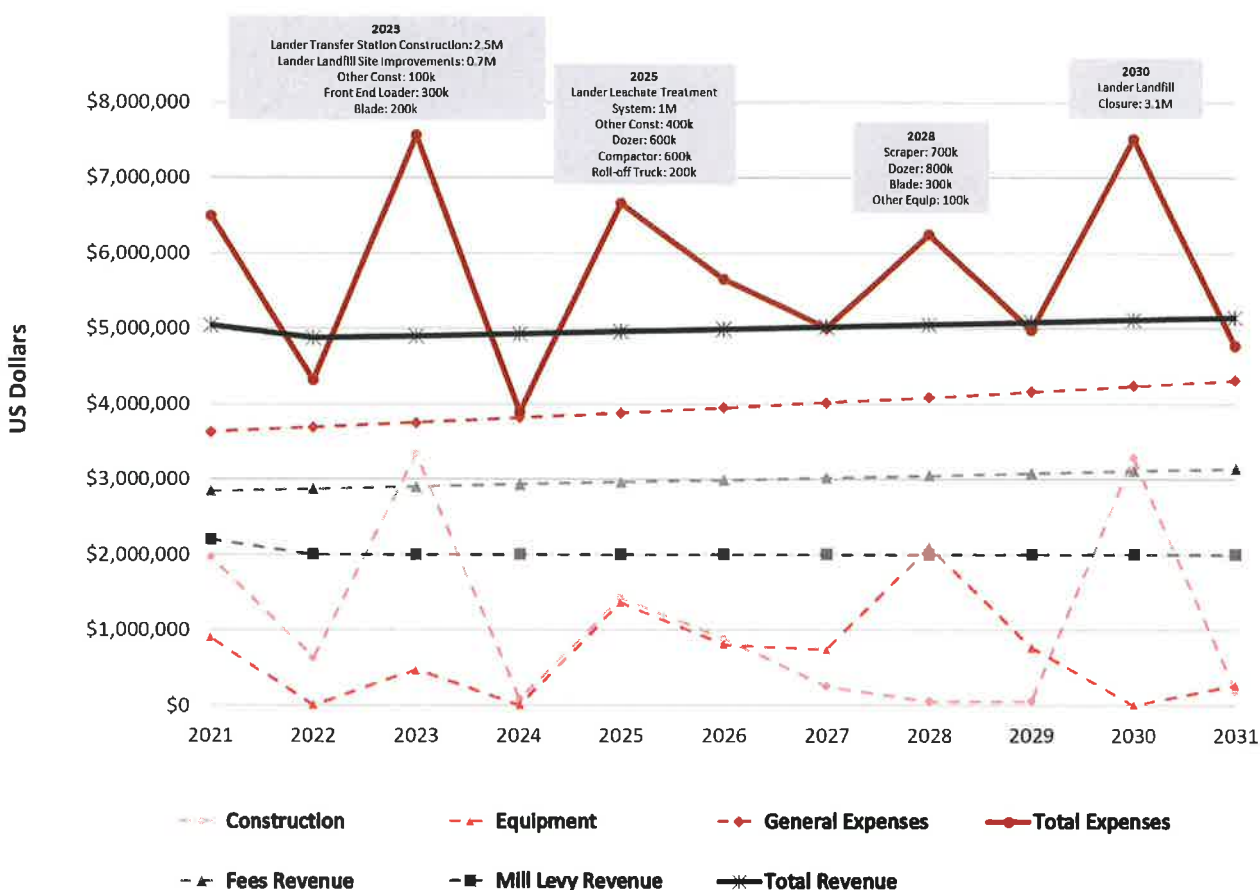
Expenses and Revenues

The projected expenses and revenues for the District are summarized on the following Figure:

March 26, 2021

Page 3

District Projected Revenues and Expenses



The information on the figure above corresponds to the following.

- **Construction:** Anticipated schedule and costs of all District construction project. Major construction projects are summarized in the boxes within the figure.
- **Equipment:** Anticipated replacement dates and costs of all District equipment. Major equipment replacements are summarized in the boxes within the figure.
- **General Expenses:** Labor, general operating, fuel, insurance and all other non-construction and non-equipment replacement expenses.
- **Total Expenses:** Sum of construction, equipment, and general expenses.
- **Fees Revenue:** Revenue from tipping fees and other customer charges (e.g., confidential disposal charges, tarp fees, etc.).

March 26, 2021

Page 4

- *Mill Levy Revenue:* Mill levy and auto tax revenue. Note that it is assumed that mill levy revenue in 2022 will be approximately \$200,000 less than 2021 and then hold at that amount through the remainder of the projection period.
- *Total Revenue:* Sum of fee revenue and mill levy revenue.

Long-Term Closure and Post-Closure Liabilities

The District's four landfills have significant closure and post-closure expenses. The following summarizes the anticipated amount and timing of those expenses.

Closure and Post-Closure Costs

	Projected Closure Date	Closure Cost	Post-Closure Costs (30-year total)	Post-Closure Costs (50-year total)
Dubois	2075	\$311,970	\$813,530	\$949,118
Lander	2028	\$2,719,660	\$3,005,560	\$3,506,487
Sand Draw	2054	\$3,522,610	\$2,808,610	\$3,276,712
Shoshoni	2021	\$1,319,210	\$575,760	\$670,553
Total Liability		\$7,873,450	\$7,203,460	\$8,402,870

Note: All costs are Present Value (2020).

The District's total closure and post-closure liability, assuming a 30-year closure period, is \$15,076,910. If the post-closure period were to extend to 50-years, the total liability increases to \$16,276,320. Costs to be incurred during the post-closure period include groundwater monitoring, erosion control, fencing, reporting, and other activities necessary to maintain the landfills after their closed and before they are stable enough to stop monitoring.

March 26, 2021

Page 5

Landfill Operation Metrics

The following table summarizes the landfill metrics for each of the four landfills for the 2019-2020 fiscal year.

2019 – 2020 Landfill Metrics

	Tons Disposed	Volume Consumed (cubic yards)	Airspace Utilization (lbs. per cubic yard)	Remaining Volume (cubic yards)	Soil Balance (cubic yards)
Dubois	578	2,132	542	186,714	99,000
Lander	31,829	57,991	1,098	480,224	92,000
Sand Draw	3,653	7,104	1,029	2,364,051	341,790
Shoshoni¹	NA	12,854	NA	5,864	29,700

Notes:

1. Shoshoni landfill does not have a scale. All waste received is measured in volume. All three other landfills weigh waste received prior to disposal.

2. Soil balance is the net volume of soil available onsite for all future landfill operations. All four landfills are in a surplus situation.

NA = Not Applicable

lbs = pounds

The following summarizes the information presented in the table above.

Tons Disposed: The weighed amount of waste disposed of in the landfill during the audited year.

Volume Consumed: The airspace consumed in the landfill during the audited year.

Airspace Utilization: An industry standard metric for measuring the efficiency of filling operations. The higher the airspace utilization the longer the more waste that can be disposed of in the landfill footprint; thus, extending the life of the landfill and delaying construction of a new landfill. A good landfill operation maintains an airspace utilization between 1,000 and 1,200 lbs per cubic yard. Lower airspace utilizations can occur at construction and demolition debris landfills (e.g., the Dubois Landfill) due to the bulky nature of the waste received.

Remaining Volume: The remaining permitted airspace in the landfill at the end of the audited year.

Soil Balance: The volume of onsite soil that can be used for cover operations less the amount of soil that is needed for cover operations.

Closing

Additional details, including assumptions, are included in the annual landfill capacity reports. Figures and tables used to complete landfill calculations are also included.



February 10, 2021

Mr. Andrew Frey, P.E.
Superintendent
Fremont County Solid Waste Disposal District
P.O. Box 1400
Lander, WY 82520

Re: FY 2019-2020 Capacity Audit for Lander Landfill, Fremont County, Wyoming

Dear Mr. Frey:

Burns & McDonnell has completed volume and airspace utilization calculations for the Lander Landfill (Landfill) in accordance with Authorization No. 28 dated July 20, 2020. The calculations are based on comparing the July 10, 2020, survey completed by William H. Smith & Associates, Inc., to the July 10, 2019, survey and final cover grades included in the January 25, 2018, Lifetime Operating Permit Renewal Application prepared by Trihydro Corporation.

Attached are drawings showing the existing conditions, final cover plan, and the cut/fill depths between surveys and final cover contours. The figures include:

- ▶ Figure 1 – 2020 Existing Conditions
- ▶ Figure 2 – Final Cover Plan (Trihydro Corporation)
- ▶ Figure 3 – 2020 Airspace Consumed Isopach (July 2020 Survey Over July 2019 Survey)
- ▶ Figure 4 – 2020 Airspace Remaining Isopach (Final Cover Over 2020 Survey)

Also attached are tables showing the remaining fill projections and projected closure and post-closure costs for the Landfill.

AIRSPACE UTILIZATION

The results of the volume calculations were used to obtain the current airspace utilization factor (AUF). The volumes were calculated using AutoCAD Civil 3D.

The calculated AUF for the main working face area of the landfill over the period from July 10 2019 to July 10, 2020 is 1,098 pounds per cubic yard (lb/cy). This value was calculated by dividing the total weight of waste disposed by the total consumed airspace (including daily cover soil) over the same period. The waste disposed included loose municipal solid waste (MSW), construction & demolition debris (C&D) waste. Per District records the total tonnage placed in the MSW and C&D disposal area was 31,829 over the survey period. Per surveys the total consumed airspace was 38,991 cubic yards. An additional fill volume of approximately 19,000 cubic yards was calculated using information provided by the district on excavation performed onsite after the 2019 survey was performed. Including the additional fill volume, the total airspace consumed between the July 2019 and July 2020 surveys was 57,991 cubic yards.

The AUF of 1,098 lb/cy for 2020 is a decrease from last year (1,281 lb/cy in FY 2019-2020); however, it is a significant increase compared to the AUF during bale fill operations (764 lb/cy in FY 2013-2014). The District changed operations from a bale fill to an area fill in FY 2014-2015.

LANDFILL CAPACITY

Based on the final cover contours included in the Lifetime Operating Permit Renewal Application compared to the July 10, 2020, survey, the remaining waste capacity of the Lander Landfill, as currently permitted, is 480,224 cubic yards. This remaining capacity does not include final cover.

FUTURE AIR SPACE CONSUMPTION RATES AND SITE LIFE

The amount of waste that was landfilled at the Lander Landfill between the July 10, 2019, and July 10, 2020, surveys was 31,829 tons.¹ This was the seventh year in which MSW from Sand Draw and Riverton was diverted to Lander to maximize District landfill operations. The following tonnages of waste have been received at the Lander Landfill since 2011:

- ▶ July 1, 2011 to June 30, 2012 = 15,066 tons
- ▶ July 1, 2012 to June 30, 2013 = 15,261 tons
- ▶ July 1, 2013 to June 30, 2014 = 13,517 tons
- ▶ July 1, 2014 to June 30, 2015 = 25,935 tons (began taking Sand Draw waste)
- ▶ July 1, 2015 to June 30, 2016 = 26,982 tons
- ▶ July 1, 2016 to June 30, 2017 = 28,115 tons
- ▶ July 1, 2017 to June 30, 2018 = 29,150 tons
- ▶ July 1, 2018 to June 30, 2019 = 39,856 tons
- ▶ July 10, 2019 to July 10, 2020 = 31,829 tons

For purposes of calculating the remaining landfill life, future annual tonnage is assumed to increase in quantity at a growth rate of 1%. Future waste disposal is estimated to be performed

¹ Included in the total tonnage landfilled between July 10, 2019, and July 10, 2020, is MSW (25,096 tons), C&D (5,193 tons), asbestos (12 tons), animal wastes (250 tons), carcasses (11 tons), confidential records (3 tons), biowastes (4 tons), and contaminated soil (1,261 tons). This tonnage data is from tonnage reports for the dates between July 10, 2019, and July 10, 2020. Note that for purposes of calculating AUF, 10 tons of out-metals and 1,382 tons of yard waste that were received during this period were not included in the total tonnage because materials are managed in areas of the landfill not included in the survey comparison calculations.

at an airspace utilization factor equal to the average AUF for 2016-2020 (1,077 lb/cy). The tonnage placed between the 2019-2020 survey dates was used for future tonnage projections (31,829 tons).

Based on these assumptions, the Lander Landfill will reach capacity mid-year of 2028. The attached Remaining Airspace Table presents the airspace utilization projections.

SOIL BALANCE

Soil balance calculations were completed by comparing the amount of soil required for landfill operations to the amount of soil available onsite. The following summarizes the soil required and available.

Soil Required

- ▶ Daily Cover Soil – The daily cover is assumed to be six percent of the waste mass. The landfill predominantly uses a spray-on alternative daily cover in lieu of six-inches of compacted soil for daily cover, which reduces the six-inches of soil cover requirement from daily to every seven days.

Based on the remaining site life calculations discussed above, there is approximately 480,224 cubic yards of waste and daily cover airspace remaining. Approximately 29,000 cubic yards of soil are needed for daily cover in the landfill operation, assuming the District continues to use spray-on alternative daily cover in the same manner as currently being used.

- ▶ Intermediate Cover Soil – The landfill is required to have 12-inches of intermediate cover over the waste mass prior to final cover. Approximately eight acres of the remaining 36 acres that require final cover have intermediate cover already placed on them. The amount of intermediate cover soil needed on the 28 acres requiring intermediate cover is 45,000 cubic yards.
- ▶ Final Cover Soil – The amount of final cover soil required to close the landfill is estimated to be 232,000 cubic yards based on the cover profile Lifetime Permit Renewal Application, which includes 48-inches of lightly compacted classified fill over the 12-inches of intermediate soil.
- ▶ Total Soil Requirements – The total soil requirement for the Lander Landfill for the remainder of the site life through final closure is approximately 74,000 cubic yards of unclassified soil for routine and intermediate cover, and approximately 232,000 cubic yards of classified soil for final cover.

Soil Available

- ▶ Classified Soils – The Lifetime Operating Permit Renewal Application, January 25, 2018, includes an estimate of the classified soils available in the borrow areas south and east of the landfill. It estimates that 81% of the soils excavated, or 319,400 cubic yards, will meet classified soil specification.

- ▶ **Unclassified Soils** –The classified soils area mentioned in the bullet above will have approximately 75,000 cubic yards of unclassified soils within it. There is also an estimated 4,000 cubic yards of unclassified soil that can be excavated from the hill west of the loadout area. Therefore, the estimated total unclassified soils available is 79,000 cubic yards.

The classified and unclassified soils referenced in this section are from borrow areas located south and east of the landfill on adjacent Army National Guard property. Discussions of using these soils for landfill purposes have been had with the Army National Guard; however, formal approval is still required. It is anticipated that it will take several years to gain appropriate approvals to use the soils from this area – thus, planning should begin early for the final cover construction.

Soil Balance

- ▶ Based on the estimates and assumptions provided above, the Lander Landfill appears to have sufficient soils available onsite. There is a surplus of 87,000 cubic yards of classified soil, and a surplus of 5,000 cubic yards of unclassified soil to be excavated onsite.

CLOSURE AND POST-CLOSURE COST ESTIMATES

Burns & McDonnell completed cost estimates for closure and post-closure management of the Lander Landfill. The estimated present value of the closure cost for the Landfill is \$2,719,660, which is an increase of \$53,220 compared to 2019. The estimated present value of the post closure cost estimate is \$3,005,560, which is an inflationary increase of \$58,730 compared to 2019. The post-closure cost estimate is based on an assumed 30-year post-closure period. The closure and post closure cost estimates are attached.

It should be noted that Federal EPA guidelines require states to enforce a **minimum** 30-year post closure period. It is likely that post-closure will extend beyond 30-years – although at a lower cost. For post-closure to come to an end the landfill needs to be stable and not producing leachate and/or landfill gas at significant levels that warrant monitoring. For comparison, the post-closure cost of 50-years, assuming a 75% reduction in annual post-closure costs due to reduced sampling and property management costs for years 31- 50, is \$3,506,487.



Mr. Andrew Frey, PE
February 10, 2021
Page 5

CLOSING

Should you have any questions regarding this letter report, please do not hesitate to contact Matt Evans at 952-656-3629 or at maevans@burnsmcd.com.

Sincerely,

Burns & McDonnell

A handwritten signature in black ink, appearing to read "Matthew J. Evans". The signature is fluid and cursive, with a large initial "M" and a long, sweeping underline.

Matthew J. Evans, PE
Project Manager

Tables

LANDER LANDFILL-2020 REMAINING AIRSPACE

DATE: 10/29/2020

Lander-Waste Received Tonnage (07/10/19 to 07/10/20) =
 Predicted Future Generation Growth =
 Airspace Utilization Factor (AUF)³=
 Remaining Capacity (without final cover) =

31,829	tons
1%	
1,077	lb/cy
480,224	cy

Remaining Airspace Table

Year	Total Tonnage (Lander)	Annual Airspace Consumed (cy)	Remaining Capacity (cy)	
2020	15,173	28,168	452,056	
2021	32,148	59,679	392,376	
2022	32,469	60,276	332,100	
2023	32,794	60,879	271,221	
2024	33,122	61,488	209,733	
2025	33,453	62,103	147,631	
2026	33,788	62,724	84,907	
2027	34,125	63,351	21,556	
2028	34,467	63,984	-42,428	<== Capacity Reached in 2028
2029	34,811	64,624	-107,052	
2030	35,159	65,270	-172,323	
2031	35,511	65,923	-238,246	
2032	35,866	66,582	-304,828	
2033	36,225	67,248	-372,077	
2034	36,587	67,921	-439,997	
2035	36,953	68,600	-508,597	
2036	37,323	69,286	-577,883	
2037	37,696	69,979	-647,862	
2038	38,073	70,679	-718,541	

Notes:

1. Prior to July 1, 2014, MSW and C&D waste were placed in two separate areas of the permitted waste footprint of the Landfill. All waste is now being combined and disposed in one location.
2. Waste from Sand Draw will be diverted to the Lander Landfill until capacity is reached at Lander.
3. The average AUF used to calculate remaining airspace excluded values from 2019 due to the abnormally high amount of C&D wastes received.

**Closure Cost Estimate
Lander Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
Mobilization & General Site Preparation						
1	Mobilization, Demobilization, Bonding, Insurance	8	%	1,691,220	135,300	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	1,691,220	84,560	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	5	DAY	2,330	11,650	Judgement; includes one heavy piece of equipment and one operator.
					\$231,510	
Site Grading and Associated Earthwork						
4	Grade intermediate cover	36	ACRE	1,710	61,560	Judgement based on similar projects
					\$61,560	
Final Cover						
5	Excavate anchor trenches		CY	6.05		HCCD 31 23 16.13 0062; 3/4 CY excavator; includes labor and equipment
6	Purchase and install geomembrane		SF	0.63		Judgement, 60-mil LLDPE geomembrane includes installation
7	Purchase and install geocomposite drainage layer		SF	0.63		Judgement, biplanar geocomposite includes installation
8	Backfill anchor trench		CY	1.90		HCCD 31 23 16.13 3080; Backfill trench, FE Loader 2-1/4 CY bucket, min haul
9	Compacted backfilled anchor trench		CY	2.03		HCCD 31 23 23.23 7020; walk behind, vibrating plate, 18" wide, 6" lifts, 3 passes
10	Load, haul, and place final cover soil from on-site stockpile	232,000	CY	6.12	1,419,840	Judgement based on similar projects
					\$1,419,840	
Site Reclamation						
11	Grade disturbed areas	39	ACRE	1,717	66,950	HCCD 31 22 16.10 3300; all disturbed areas
12	Revegetate	1,698,840	SF	0.08	138,630	Judgement; similar projects, includes soil amendments
					\$205,580	
Miscellaneous						
13	Survey Control and As-Built documentation	1.0	LS	4,240	4,240	WDEQ SWG #12 worksheet
					\$4,240	
Engineering and Construction Management						
14	Engineering and Bid Administration	5%	LS	1,922,730	96,140	Judgement, assumes 5% of construction cost
15	Construction Quality Assurance	10%	LS	1,922,730	192,270	Judgement, assumes 10% of construction cost
16	Construction Management	8%	LS	1,922,730	153,820	Judgement, assumes 8% of construction cost
				SUBTOTAL	\$442,230	
SUBTOTAL					2,364,960	
CONTINGENCY					354,700	
TOTAL CLOSURE COSTS					\$2,719,660	

ASSUMPTIONS & LIMITATIONS

- Pricing is for 2020 present value unless otherwise noted.
- Extended prices are rounded to the nearest \$10.

***Units:**

AC = acre
CY = cubic yard
DAY = day
EA = each
LF = linear foot
LS = lump sum
SF = square foot
SY = square yard
YR = year

HCCD = RSMeans Heavy Construction Cost Data, 2010; adjusted for inflation
Judgement - Professional judgement or estimation by Burns & McDonnell

**Post-Closure Cost Estimate
Lander Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
1	Recordkeeping	30	YR	3,710	111,300	Judgement
2	Post-closure site Inspections	30	YR	860	25,800	WDEQ SWG #12, adjusted for inflation
3	Methane Monitoring	30	YR	1,590	47,700	Judgement, based on similar projects
4	Groundwater Monitoring	30	YR	36,610	1,098,300	2014 environmental monitoring contract
	Operation of the groundwater/leachate collection					Judgement; includes sample fees, consultant fees, travel expense, equipment, supplies, and reporting - decreased from previous years due to leachate management operations change.
5	system	30	YR	31,410	942,300	Judgement (ave 0.5 PLS @ 160, 8 hr GPS tech @\$100, 0.5hr data mgr @\$100, \$100 OCDs per day) one per year
6	Survey Control for settlement documentation	30	DAY	1,260	37,800	Judgement
7	Petition to terminate post-closure period	1	LS	3,710	3,710	Judgement; includes routine maintenance, revegetation of bare spots
8	Grounds maintenance	30	YR	3,710	111,300	Judgement
9	Drainage Channel maintenance costs	30	YR	3,710	111,300	Judgement
10	Fence Maintenance Costs	6800	LF	14	95,110	WDEQ SWG #12, adjusted for inflation
11	Fence Removal Costs	6800	LF	2	15,880	WDEQ SWG #12, adjusted for inflation
12	Groundwater monitoring well abandonment	19	EA	630	11,970	Judgement, based on similar projects
13	Methane probe abandonment	2	EA	530	1,060	Judgement based on previous experience with probe abandonment
SUBTOTAL					2,613,530	
CONTINGENCY				15%	392,030	
TOTAL POST-CLOSURE COSTS					3,005,560	

ASSUMPTIONS & LIMITATIONS

- Pricing is for 2020 present value unless otherwise noted.
- Extended prices are rounded to the nearest \$10.

***Units:**

DAY = day
EA = each
LF = linear foot
LS = lump sum
YR = year

Judgement - Professional judgement or estimation by Burns & McDonnell
SWG - Solid Waste Guideline
WDEQ - Wyoming Department of Environmental Quality

Figures

no.	date	by	chkd	description
1	10/22/2020	SP	MJE	

NOTES

1. SITE TOPOGRAPHY IS BASED ON THE JULY 10, 2020, TOPOGRAPHY OF THE FRESHWATER SURVEY. BOUNDARY IS BASED ON ADDITIONAL SURVEY PERFORMED SEPTEMBER 23, 2020 SURVEY.
2. SITE TOPOGRAPHY MAY VARY DUE TO CHANGES IN ELEVATION, COVER, MATERIAL, EXCAVATION, STOCKPILING, AND WASTE DISPOSAL.

LEGEND:

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- EXISTING CONTOURS



date	designed	checked	by
OCTOBER 2020	S. PASHUPATHAL	M. EVANS	

Fremont County
Solid Waste Disposal District

FREMONT COUNTY	
2020 EXISTING CONDITIONS	
project	contract
125750	
FIGURE 1	
sheet	1 of 4 sheets
file # 1 - 2022 (existing, standard and planning year maps)	

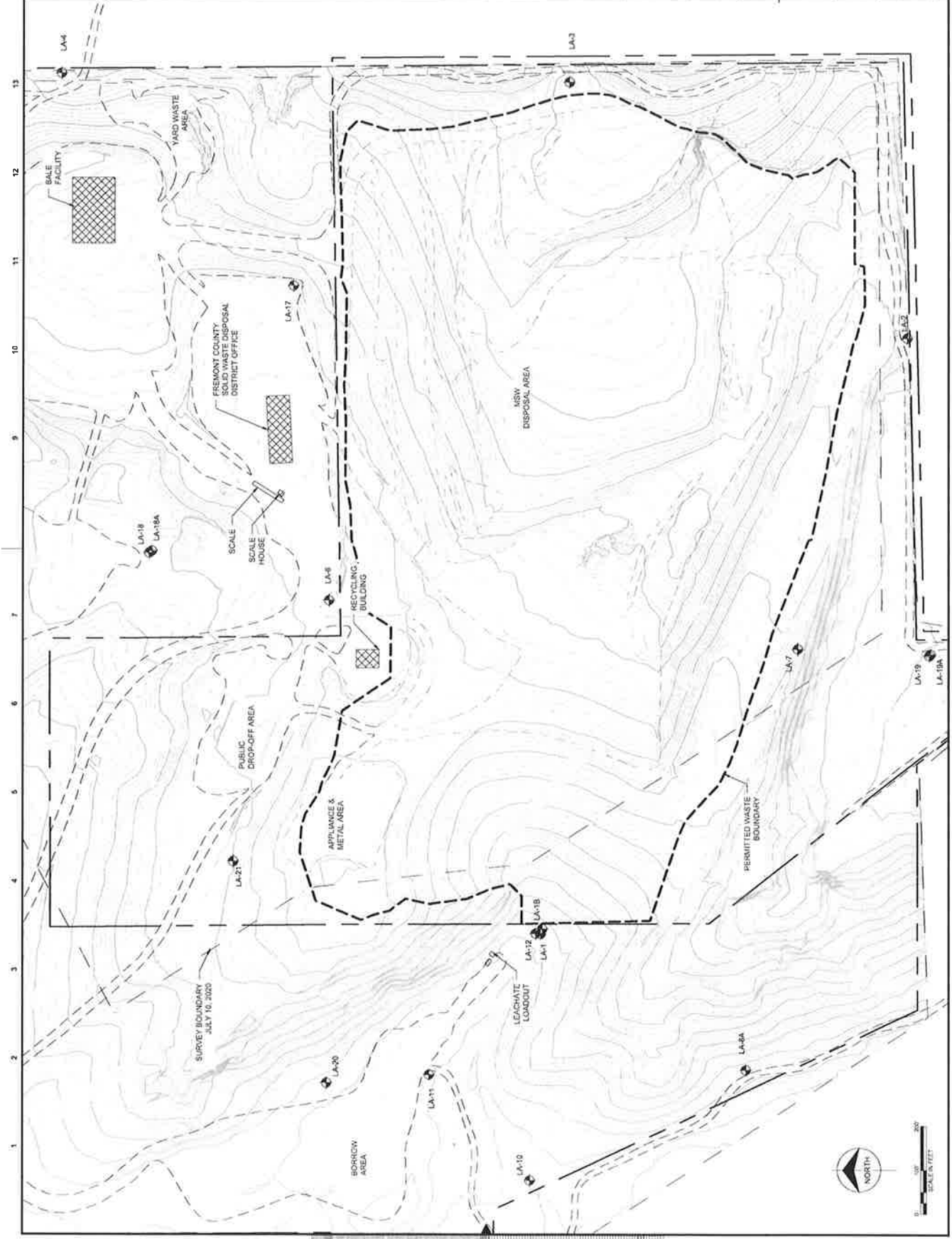


FIG 2

FINAL COVER PLAN
LIFETIME OPERATING PERMIT APPLICATION
LANDFILL
FREMONT COUNTY, WYOMING



DATE: 12/21/2017
CHECKED BY: KS
DRAWN BY: HEP

SCALE: 1" = 100'
DATE: 12/21/2017
CHECKED BY: KS
DRAWN BY: HEP

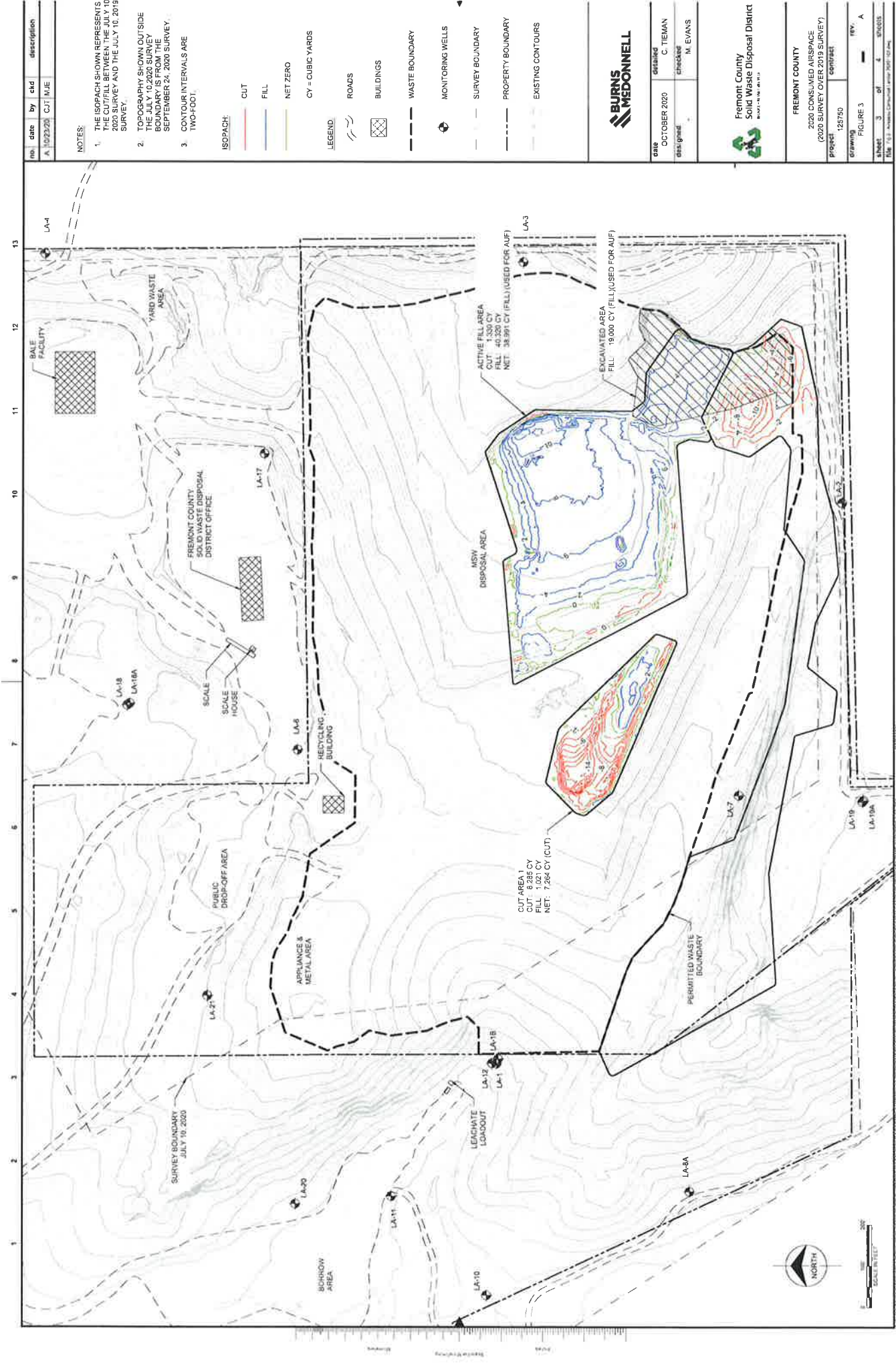
REV	DATE	DESCRIPTION
0	12/21/17	ISSUE FOR REGULATORY REVIEW
1	12/21/17	REVISIONS

REV	DATE	DESCRIPTION
0	12/21/17	ISSUE FOR REGULATORY REVIEW
1	12/21/17	REVISIONS



NOTES:
1. THE COVER PLAN IS FOR THE LIFETIME OPERATING PERMIT APPLICATION AND IS NOT A FINAL DESIGN. THE COVER PLAN IS SUBJECT TO THE FINAL DESIGN AND THE FINAL DESIGN SHALL BE SUBMITTED TO THE STATE OF WYOMING FOR REVIEW AND APPROVAL.
2. WELLS LA-19 AND LA-20 TO BE PLUGGED AND ABANDONED PRIOR TO DECOMMISSION OF BORROW AND NO. 1

LIFETIME OPERATING PERMIT



NOTES:
1. THE ISOPACH SHOWN REPRESENTS THE CUT/FILL BETWEEN THE JULY 10, 2020 SURVEY AND THE JULY 10, 2019 SURVEY.
2. TOPOGRAPHY SHOWN OUTSIDE THE JULY 10, 2020 SURVEY BOUNDARY IS FROM THE SEPTEMBER 24, 2020 SURVEY.
3. CONTOUR INTERVALS ARE TWO-FOOT.

- ISOPACH:
- CUT
 - FILL
 - NET ZERO
 - CY = CUBIC YARDS

- LEGEND
- ROADS
 - BUILDINGS
 - WASTE BOUNDARY
 - MONITORING WELLS
 - SURVEY BOUNDARY
 - PROPERTY BOUNDARY
 - EXISTING CONTOURS



date	revised
OCTOBER 2020	C. TIEMAN
designed	checked
	M. EVANS

Fremont County
Solid Waste Disposal District

FREMONT COUNTY	
2020 CONSUMED AIRSPACE	
(2020 SURVEY OVER 2019 SURVEY)	
project	contract
125750	

drawing	REV.
FIGURE 3	A

sheet	of	DATE
3	4	09/05/20

no.	date	by	chkd	description
A	10/23/20	CJT	MJE	

NOTES:

1. THE ISOPACH SHOWN REPRESENTS THE CUTOFF, GIVEN THE FINAL TOP OF WASTE CONTAINERS AND THE JULY 10, 2020 SURVEY.
2. TOPOGRAPHY SHOWN OUTSIDE THE 2020 SURVEY BOUNDARY IS FROM THE SEPTEMBER 24, 2020 SURVEY.
3. CONTOUR INTERVALS ARE TWO-FOOT.
4. VOLUMES DO NOT INCLUDE FINAL COVER VOLUMES.
5. THE PERMITTED FINAL COVER VOLUMES OF CLASSIFIED SOIL.

ISOPACH:

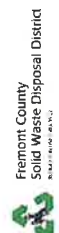
- CUT
- FILL
- NET ZERO
- CY = CUBIC YARDS

LEGEND:

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- EXISTING CONTOURS

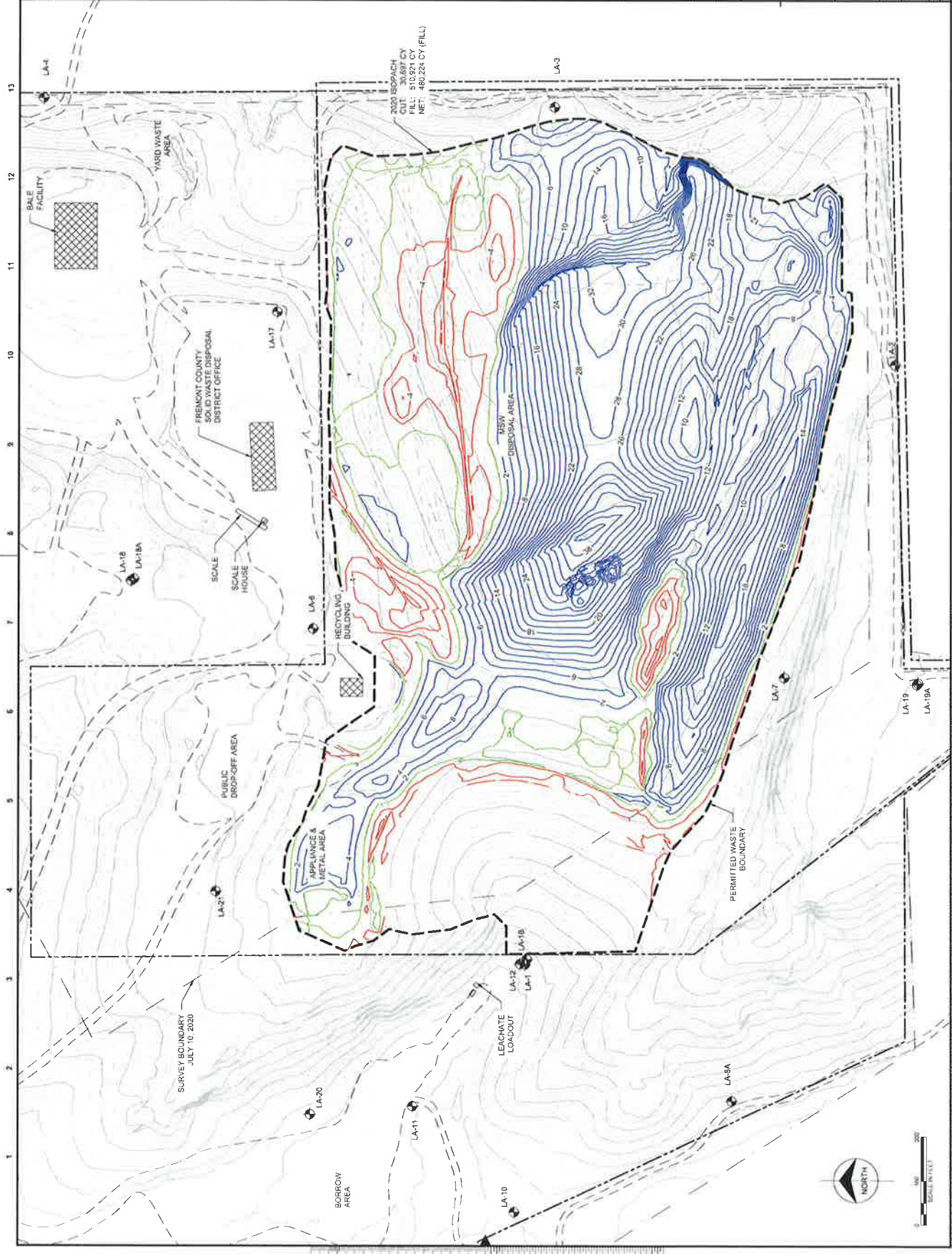


DATE	10/23/20	DESIGNED	C. TIEMAN
DRAWN		CHECKED	M. EVANS



FREMONT COUNTY	
2020 AIRSPACE REMAINING	
(FINAL COVER OVER 2020 SURVEY)	
PROJECT	125750
CONTRACT	
DRAWING	FIGURE 4
SHEET	6 of 4
REV.	A

DATE	10/23/20	DESIGNED	C. TIEMAN
DRAWN		CHECKED	M. EVANS



2020 ISOPACH
CUT: 30,687 CY
FILL: 910,521 CY
NET: 879,834 CY (FILL)

Map 10-14 Airspace Remaining (over 2020 Survey) 10/23/20

Shoshoni Landfill

2019-2020 Capacity Audit

Memorandum



Date: March 26, 2021

To: Fremont County Solid Waste Disposal District Board of Directors

From: Matt Evans, Burns & McDonnell

Subject: Fremont County Solid Waste Disposal District – Operations Summary

This memorandum presents the following:

- Summary of the District's financial position
- Summary of projected expenses and revenues
- Long-term closure/post-closure financial responsibilities
- Landfill operation metrics

Financial Position

The following table summarizes the key financial considerations for the four District facilities.

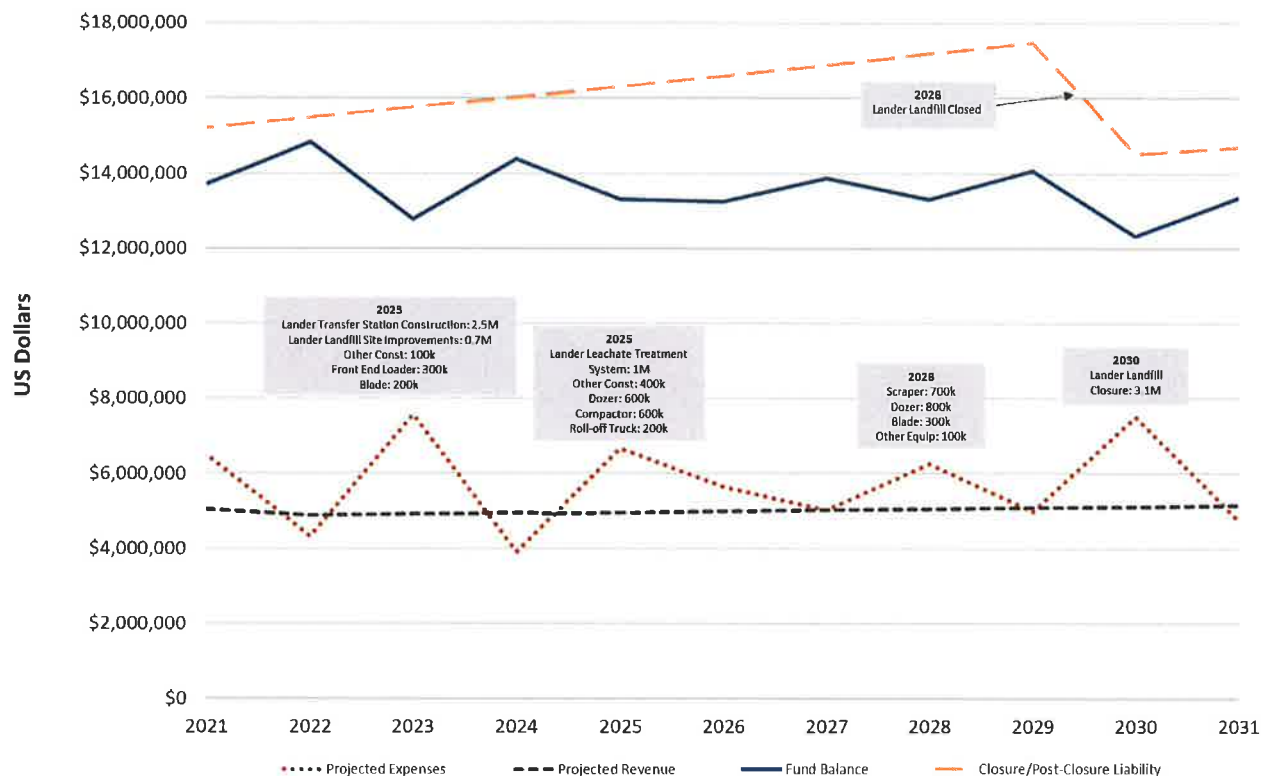
Site	FY 2019- 2020 AUF (lbs/yr ³)	Projected Closure Year	Closure Cost	"Immediate" Closure Cost	Post- Closure (30-yr)	Post- Closure (50-yr)	Future Development (2021-2041)	Closure / Post Closure / Future Development Fund Balance
Lander	1,098	2028	\$2,719,660	\$2,702,000	\$3,005,560	\$3,506,487	\$5,041,346	-
Sand Draw	1,029	2054 (active area)	\$3,522,610	\$5,902,610	\$2,808,610	\$3,276,712	\$1,291,346	-
Shoshoni	N/A	2021	\$1,319,210	\$217,000	\$575,760	\$670,553	\$0	-
Dubois	542	2075	\$311,970	\$1,323,210	\$813,530	\$949,118	\$3,105,208	-
Total	-	-	\$7,873,450	\$10,144,820	\$7,203,460	\$8,402,870	\$9,437,899	\$ 16,466,876

March 26, 2021

Page 2

The 10-year financial projection for the District is presented in the following figure.

District 10-Year Financial Projection



The information shown on the figure corresponds to the following.

- *Projected Expenses:* Total labor, general operating, equipment purchases, and construction expenses.
- *Projected Revenue:* Total revenue from fees, mill levy, auto tax and all other forms of District revenue.
- *Fund Balance:* District bank account that is set aside for landfill closure, post-closure and other large District construction projects.
- *Annual Construction and Equipment Expenses:* Large construction and equipment expenses are summarized in boxes corresponding to the year of the expense.

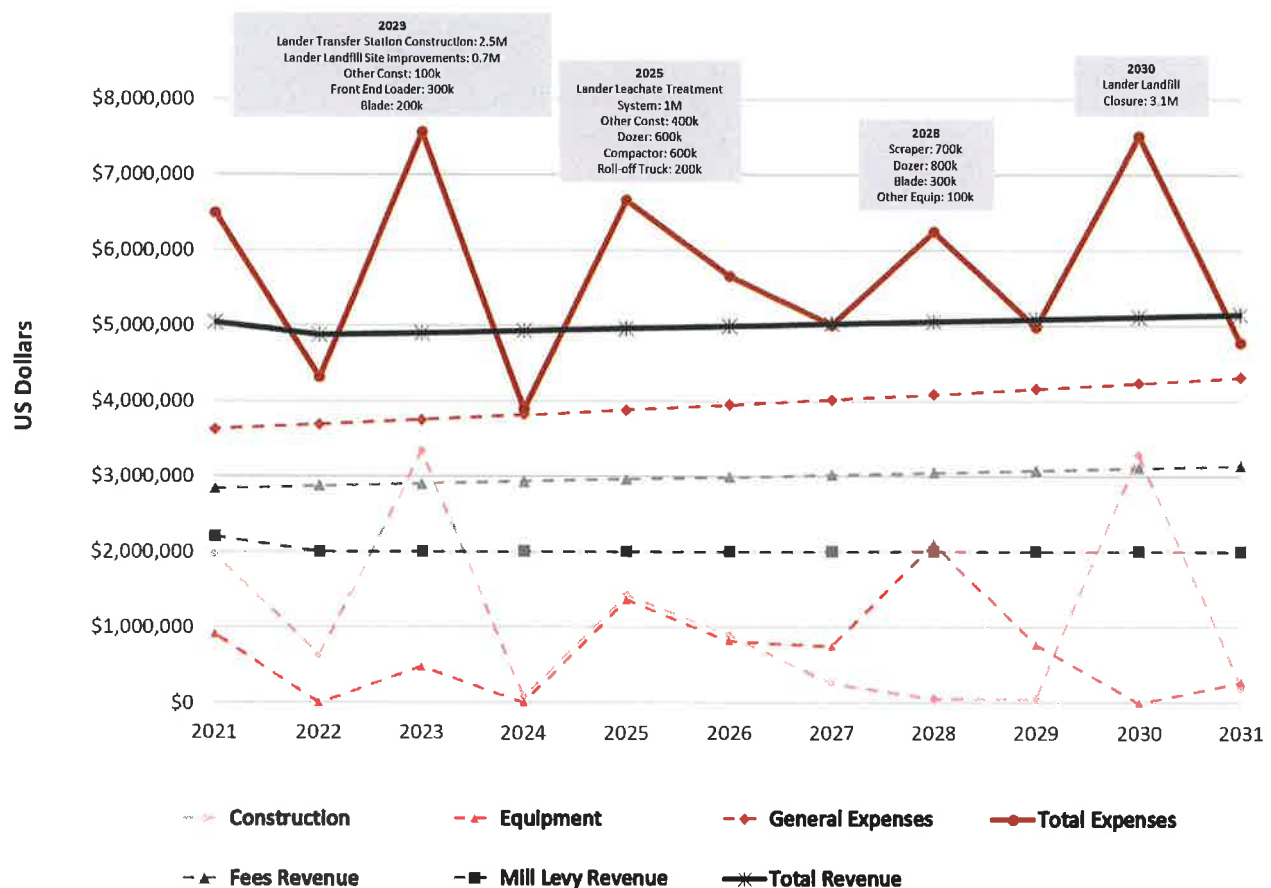
Expenses and Revenues

The projected expenses and revenues for the District are summarized on the following Figure:

March 26, 2021

Page 3

District Projected Revenues and Expenses



The information on the figure above corresponds to the following.

- **Construction:** Anticipated schedule and costs of all District construction project. Major construction projects are summarized in the boxes within the figure.
- **Equipment:** Anticipated replacement dates and costs of all District equipment. Major equipment replacements are summarized in the boxes within the figure.
- **General Expenses:** Labor, general operating, fuel, insurance and all other non-construction and non-equipment replacement expenses.
- **Total Expenses:** Sum of construction, equipment, and general expenses.
- **Fees Revenue:** Revenue from tipping fees and other customer charges (e.g., confidential disposal charges, tarp fees, etc.).

March 26, 2021

Page 4

- *Mill Levy Revenue:* Mill levy and auto tax revenue. Note that it is assumed that mill levy revenue in 2022 will be approximately \$200,000 less than 2021 and then hold at that amount through the remainder of the projection period.
- *Total Revenue:* Sum of fee revenue and mill levy revenue.

Long-Term Closure and Post-Closure Liabilities

The District's four landfills have significant closure and post-closure expenses. The following summarizes the anticipated amount and timing of those expenses.

Closure and Post-Closure Costs

	Projected Closure Date	Closure Cost	Post-Closure Costs (30-year total)	Post-Closure Costs (50-year total)
Dubois	2075	\$311,970	\$813,530	\$949,118
Lander	2028	\$2,719,660	\$3,005,560	\$3,506,487
Sand Draw	2054	\$3,522,610	\$2,808,610	\$3,276,712
Shoshoni	2021	\$1,319,210	\$575,760	\$670,553
Total Liability		\$7,873,450	\$7,203,460	\$8,402,870

Note: All costs are Present Value (2020).

The District's total closure and post-closure liability, assuming a 30-year closure period, is \$15,076,910. If the post-closure period were to extend to 50-years, the total liability increases to \$16,276,320. Costs to be incurred during the post-closure period include groundwater monitoring, erosion control, fencing, reporting, and other activities necessary to maintain the landfills after their closed and before they are stable enough to stop monitoring.

March 26, 2021

Page 5

Landfill Operation Metrics

The following table summarizes the landfill metrics for each of the four landfills for the 2019-2020 fiscal year.

2019 – 2020 Landfill Metrics

	Tons Disposed	Volume Consumed (cubic yards)	Airspace Utilization (lbs. per cubic yard)	Remaining Volume (cubic yards)	Soil Balance (cubic yards)
Dubois	578	2,132	542	186,714	99,000
Lander	31,829	57,991	1,098	480,224	92,000
Sand Draw	3,653	7,104	1,029	2,364,051	341,790
Shoshoni¹	NA	12,854	NA	5,864	29,700

Notes:

1. Shoshoni landfill does not have a scale. All waste received is measured in volume. All three other landfills weigh waste received prior to disposal.

2. Soil balance is the net volume of soil available onsite for all future landfill operations. All four landfills are in a surplus situation.

NA = Not Applicable

lbs = pounds

The following summarizes the information presented in the table above.

Tons Disposed: The weighed amount of waste disposed of in the landfill during the audited year.

Volume Consumed: The airspace consumed in the landfill during the audited year.

Airspace Utilization: An industry standard metric for measuring the efficiency of filling operations. The higher the airspace utilization the longer the more waste that can be disposed of in the landfill footprint; thus, extending the life of the landfill and delaying construction of a new landfill. A good landfill operation maintains an airspace utilization between 1,000 and 1,200 lbs per cubic yard. Lower airspace utilizations can occur at construction and demolition debris landfills (e.g., the Dubois Landfill) due to the bulky nature of the waste received.

Remaining Volume: The remaining permitted airspace in the landfill at the end of the audited year.

Soil Balance: The volume of onsite soil that can be used for cover operations less the amount of soil that is needed for cover operations.

Closing

Additional details, including assumptions, are included in the annual landfill capacity reports. Figures and tables used to complete landfill calculations are also included.



February 10, 2021

Mr. Andrew Frey, P.E.
Superintendent
Fremont County Solid Waste Disposal District
P.O. Box 1400
Lander, WY 82520

Re: FY 2019-2020 Capacity Audit for Shoshoni Landfill, Fremont County, Wyoming

Dear Mr. Frey:

Burns & McDonnell has completed volume and airspace utilization calculations for the Shoshoni Landfill in accordance with Authorization No. 28 dated June 20, 2020. The calculations are based on comparing the July 10, 2020, survey, completed by William H. Smith & Associates, Inc., to the July 12, 2019, survey and the Proposed 2020 Closure Plan grades included in the May 3, 2018, Closure Permit Application prepared by Trihydro Corporation.

Attached are drawings showing the existing conditions, final cover plan (Closure Permit Application), and the cut/fill depths between 2019 and 2020 surveys and the final cover contours. The figures include:

- ▶ Figure 1 – 2020 Existing Conditions
- ▶ Figure 2 – Final Cover Plan (Proposed 2020 Closure Plan- Trihydro)
- ▶ Figure 3 – 2020 Consumed Airspace (2020 Survey over 2019 Survey)
- ▶ Figure 4 – 2020 Remaining Airspace (Final Cover Compared to 2020 Survey)

Also attached are tables showing the projected closure and post-closure costs for the Landfill.

AIRSPACE CONSUMPTION

The airspace consumed between the July 12, 2019, and July 10, 2020, surveys is approximately 12,854 cubic yards (cy). This value is approximately 22% lower than the volume from the previous year, at 16,551 cy which was the result of a large demolition project in the area. Both volumes of airspace consumed for 2019 and 2020 were significantly higher than the volumes reported for 2016, 2017 and 2018, with an average volume of 5,375 cy. The landfill's airspace utilization factor (i.e. pounds of weight placed per cubic yard of airspace consumed) was not calculated because waste is not weighed prior to placement at the Shoshoni Landfill. Customers are charged based on the volume of waste being disposed.

LANDFILL CAPACITY

Based on the final cover contours shown on Figure 2 compared to the July 10, 2020, survey, the remaining airspace (waste plus routine cover) capacity in the existing trench at the Shoshoni Landfill is 5,864 cubic yards. This capacity does not include final cover or intermediate cover.

The District plans to close the Shoshoni Landfill in 2021.

Soil Required

Soil balance calculations were completed by comparing the amount of soil required for landfill operations and closure to the amount of soil available onsite. The following summarizes the soil required, available, and balance between required and available.

- ▶ Routine Cover Soil – Assuming the waste to routine cover soil ratio is 10:1, the approximate amount of routine cover soil used in FY 2019-2020 was 1,169 cubic yards. If the landfill ceases waste acceptance in the fall of 2020 in preparation for final closure, the amount of routine cover soil needed is approximately 130 cubic yards. Additionally, 4,438 cubic yards of soil will be needed to achieve closure grades.
- ▶ Intermediate Cover Soil – The landfill is required to have one foot of intermediate cover over the waste mass prior to final cover. Assuming all areas except the active trench area already have intermediate cover, approximately 3,227 cubic yards of intermediate cover soil is needed prior to closure.
- ▶ Final Cover Soil – The cover profile included in the May 3, 2018, Closure Permit Application, includes 6-inches of topsoil, 18-inches of protective soil layer zone, a geocomposite drainage layer, a 40-mil linear low-density polyethylene (LLDPE) geomembrane liner, and a geocomposite gas venting layer over a 15-acre closure area. Final cover will be placed over the existing trench, as well as over the in-place waste located east of the trench. The amount of soil needed to cover the area requiring final closure is 48,400 cubic yards, including 12,100 cubic yards of topsoil and 36,300 cubic yards of soil for the protective soil layer zone.
- ▶ Total Soil Requirements – The total soil requirement for the Shoshoni Landfill for the remainder of the site life is approximately 55,094 cubic yards.
 - Routine and Intermediate Cover: 3,256 cubic yards
 - Soil Required to Achieve Closure Grade: 4,438 cubic yards
 - Topsoil: 11,000 cubic yards
 - Protective Soil Layer: 36,300 cubic yards

Soil Available

Existing Soil Stockpiles – The 2018 surveys identified two areas of stockpiles totaling 63,800 cubic yards of soil. After use as routine cover, the stockpiles currently have a capacity of 48,800 cubic yards of soil.

Soil Borrow Areas – Two soil borrow areas are included in the Closure Permit Application plans, located near the northeast and northwest corners of the property. For planning purposes, it is estimated that the two borrow areas have a combined soil volume of 25,000 cubic yards assuming the areas are excavated approximately four feet deep. It is assumed these soils would be unclassified soils not suitable for topsoil.

Soil Balance

Based on the estimated soil required and the soil available described above, there is a surplus of approximately 29,700 cubic yards of unclassified fill, and a surplus of approximately 600 cubic yards of topsoil.

CLOSURE AND POST-CLOSURE COST ESTIMATES

The closure and post-closure care costs have been calculated based on the final cover design included in the approved May 3, 2018, Closure Permit Application, prepared by Trihydro Corporation. The estimated present value of the closure cost for the Landfill is \$1,319,210. The estimated present value of the post-closure cost is \$574,760. The post-closure cost estimate is based on an assumed 30-year post-closure period. The closure and post closure cost estimates are attached.

It should be noted that Federal EPA guidelines require states to enforce a **minimum** 30-year post closure period. It is likely that post-closure will extend beyond 30-years – although at a lower cost. For post-closure to come to an end the landfill needs to be stable and not producing leachate and/or landfill gas at significant levels that warrant monitoring. For comparison, the post-closure cost of 50-years, assuming a 75% reduction in annual post-closure costs due to reduced sampling and property management costs for years 31- 50, is \$670,553.



Mr. Andrew Frey, PE
February 10, 2021
Page 4

CLOSING

Should you have any questions regarding this letter report, please do not hesitate to contact Matt Evans at 952-656-3629 or at maevans@burnsmcd.com.

Sincerely,

Burns & McDonnell

A handwritten signature in black ink, reading "Matthew J. Evans". The signature is written in a cursive, flowing style.

Matthew J. Evans, PE
Civil Engineer

Tables

Post-Closure Cost Estimate
Shoshoni Landfill

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
1	Recordkeeping	30	YR	3,710	111,300	Judgement
2	Post-closure site Inspections	30	YR	870	26,100	WDEQ SWG #12; adjusted for inflation
3	Methane Monitoring	30	YR	1,490	44,700	Judgement; based on similar project
4	Groundwater Monitoring	30	YR	6,360	190,800	2014 environmental contract for groundwater monitoring
5	Survey Control for settlement documentation	30	DAY	1,220	36,600	Judgement (ave 0.5 PLS @ 160, 8 hr GPS tech @\$100, 0.5hr datamgr @\$100,
6	Petition to terminate post-closure period	1	LS	3,710	3,710	Judgement
7	Methane Probe Abandonment	6	EA	570	3,420	Judgement based on previous experience with probe abandonment
8	Fence Maintenance Costs	3000	LF	14	41,960	WDEQ SWG #12; adjusted for inflation
9	Fence Removal Costs	3000	LF	2	7,000	WDEQ SWG #12; adjusted for inflation
10	Grounds maintenance	30	YR	1,140	34,200	Judgement; includes routine maintenance, revegetation of bare spots
SUBTOTAL					499,790	
CONTINGENCY					74,970	
TOTAL POST-CLOSURE COSTS					574,760	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2020 present value unless otherwise noted.
- 2 Extended prices are rounded to the nearest \$10.

*Units:

DAY = day
EA = each
LF = linear foot
LS = lump sum
YR = year

Judgement - Professional judgement or estimation by Lowham Walsh
SWQ - Solid Waste Guideline
WDEQ - Wyoming Department of Environmental Quality

**Closure Cost Estimate
Shoshoni Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
Mobilization & General Site Preparation						
1	Mobilization, Demobilization, Bonding, Insurance	5	%	981,700	49,090.00	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	981,700	49,100.00	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	1	DAY	2,270.00	2,270.00	Judgement; includes one heavy piece of equipment and one operator.
					100,460.00	
Site Grading and Associated Earthwork						
4	Grade intermediate cover	15	ACRE	1,710	25,650.00	Judgement based on similar projects
					25,650.00	
Final Cover						
5	Load, haul, and place final cover soil from on-site stockpile	48,400	CY	5.10	246,840.00	Judgement based on similar projects
*	Geocomposite drainage layer (above geomembrane)	187,630	SF	0.70	131,340.00	Based on recent project bids (\$0.76/sf for BASWA for slightly heavier bi-planar)
*	40 mil LLDPE geomembrane liner	653,400	SF	0.50	326,700.00	Based on recent project bids (CWC)
*	Geocomposite gas venting layer (below geomembrane)	181,830	SF	0.70	127,280.00	Based on recent project bids (\$0.76/sf for BASWA for slightly heavier bi-planar)
					832,160.00	
Site Reclamation						
6	Revegetate	1,100,000	SF	0.08	87,550.00	Judgement based on similar projects, includes soil amendments
7	Grade disturbed areas	9	ACRE	1,710.00	15,390.00	Judgement based on similar projects
					102,940.00	
Miscellaneous						
8	Survey Control and As-Built documentation	1.0	DAY	4,240	4,240.00	WDEQ SWG #12
9	Barbed Wire Fence	5,600	LF	5.00	28,000.00	Barbed wire fencing to be placed at property boundary
10	Fence Removal	5,500	LF	1.00	5,500.00	Existing fence removal
					4,240.00	
ENGINEERING AND CONSTRUCTION MANAGEMENT						
11	Bid Administration	1%	LS	1,082,200	10,820.00	Estimate
12	Construction Quality Assurance	2.5%	LS	1,082,200	27,060.00	Estimate
13	Construction Management	2.5%	LS	1,082,200	27,060.00	Estimate
				SUBTOTAL	64,940.00	
SUBTOTAL					1,147,140	
CONTINGENCY					172,070	
TOTAL CLOSURE COSTS					1,319,210	

ASSUMPTIONS & LIMITATIONS

1 Pricing is for 2020 present value unless otherwise noted.

2 Extended prices are rounded to the nearest \$100; however, in cases where the nearest \$100 value is \$0, an extended price of \$100 has been assigned.

*Units:

AC = acre

CY = cubic yard

DAY = day

EA = each

LF = linear foot

LS = lump sum

SF = square foot

SY = square yard

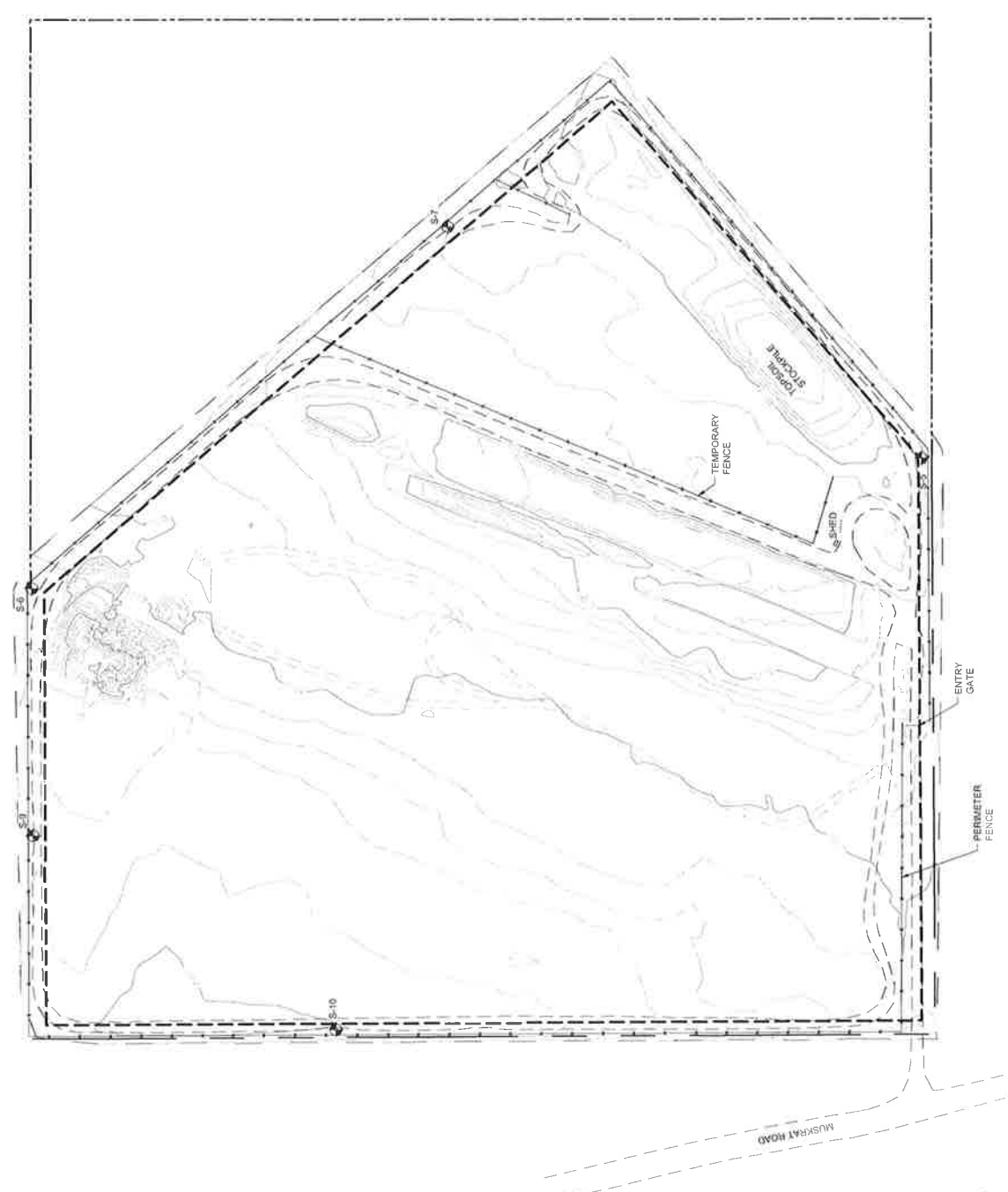
YR = year

HCCD = RSMeans Heavy Construction Cost Data, 2010; adjusted for inflation

Judgement - Professional judgement or estimation by Burns & McDonnell

Figures

13 12 11 10 9 8 7 6 5 4 3 2 1



NOTES

1. SITE TOPOGRAPHY IS BASED ON THE JULY 10, 2020 SURVEY.
2. SITE TOPOGRAPHY MAY VARY DUE TO OWNER'S CONSTRUCTION, COVER MATERIAL EXCAVATION, STOCKPILING, AND WASTE DISPOSAL.
3. INDEX CONTOUR INTERVAL IS TWO FEET.

LEGEND

- ROADS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- FENCE
- EXISTING CONTOURS
- TWO-TRACK ROAD



date	revised
OCTOBER 2020	S. PASHUPATHAL
date	checked
10/10/20	M. EVANS



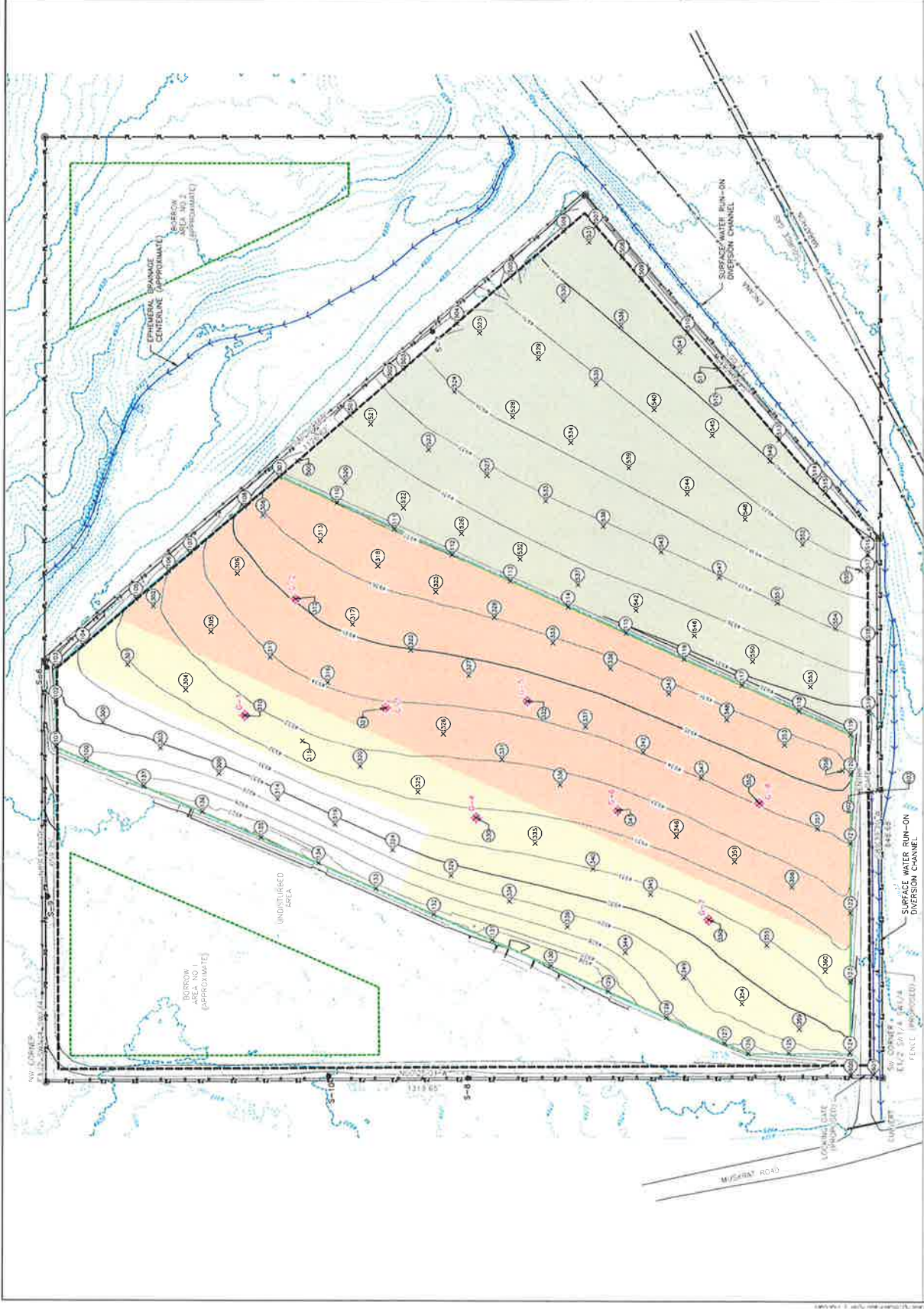
Fremont County
Solid Waste Disposal District

project	contract
123750	

figure	of	sheet
1	4	1

FILE: 10-1 - Leasing Conditions Supplemental Drafting

SHOSHONI LANDFILL FREMONT COUNTY, WYOMING		FINAL GRADE PLAN		FIG 2 2 OF 4	REV 1
Trihydro 1752 Commerce Drive Cheyenne, Wyoming 82009 (307) 763-1174		FILE: 09Y-C-FINALGRADE DATE: 10/30/2017 CHECKED BY: KS DRAWN BY: REP	SCALE: 1" = 100' DATE: 10/30/2017 CHECKED BY: KS DRAWN BY: REP	REV 0 DATE: 11/09/2017 DESCRIPTION: REVISIONS	BY: CHKD REP: KS CHKD: KS
WARNING IF THIS BAR DOES NOT MEASURE 1" IN LENGTH AT INTENDED SCALE THEN DRAWING IS NOT TO BE USED		REVISIONS			



FOR REGULATORY REVIEW

NOTE:
RECLAIMED SUBGRADE OVERLYING AREA IDENTIFIED AS "WASTES
DISPOSED PRIOR TO OCTOBER 1993 (RECLAIMED MAY 1994)
REPRESENTS FINAL GRADE OF PREVIOUSLY CLOSED AREA (1994).

0 100' 200'

N

1 2 3 4 5 6 7 8 9 10 11 12 13



no.	date	by	chkd	description
A	10/16/20	SP	M.E.	

NOTES

1. THE ISOPACH SHOWN REPRESENTS THE FILL SURVEY AND THE JULY 12, 2019 SURVEY.
2. CONTOUR INTERVALS ARE TWO-FOOT.

- ISOPACH
- CUT
 - FILL
 - NET ZERO
 - CY = CUBIC YARDS

LEGEND

- ROADS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- FENCE
- TWO-TRACK ROAD
- EXISTING CONTOURS



DATE	DESIGNED	CHECKED
OCTOBER 2020	S. PASHUPATHAL	M. EVANS



Fremont County
Solid Waste Disposal District

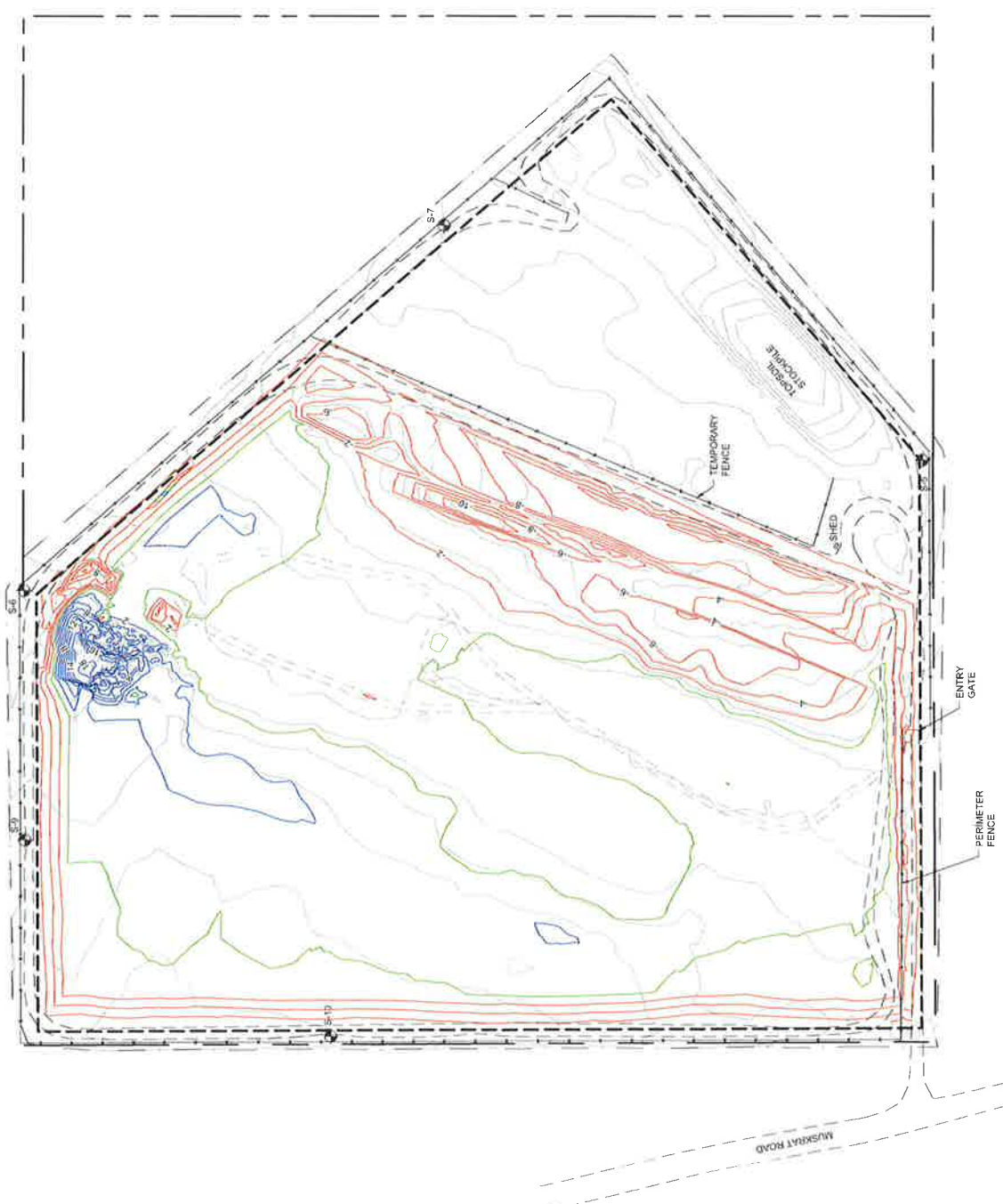
FREMONT COUNTY

2020 CONSUMED AIRSPACE
(2020 SURVEY OVER 2019 SURVEY)

PROJECT	CONTRACT
125750	
DRAWING	REV.
FIGURE 3	A
SHEET	OF
3	4

THIS DRAWING IS THE PROPERTY OF BURNS & MCDONNELL. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BURNS & MCDONNELL.

1 2 3 4 5 6 7 8 9 10 11 12 13



no	date	by	chkd	description
A-101620	SP	MAE		

NOTES

1. THE ISOPACH SHOWN REPRESENTS THE CUT/FILL VOLUMES PERMITTED TOP OF WASTE COVER AND THE JULY 10, 2020 SURVEY.
2. CONTOUR INTERVALS ARE TWO-FOOT.
3. FILL VOLUMES DO NOT INCLUDE FINAL OR INTERMEDIATE COVER.
4. THE PERMITTED FINAL COVER PROPOSED 12 INCHES OF INTERMEDIATE COVER OF GEOSYNTHETIC LAYERS, 18-INCHES OF PROTECTIVE COVER SOILS, AND 6-INCHES OF TOPSOIL.
5. SITE BALANCE:
CUT 89,485 CY
FILL 18,703 CY
NET: 90,792 CY (CUT)

ISOPACH

- CUT
- FILL
- ZERO NET
- CY = CUBIC YARDS

LEGEND:

- ROADS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- FENCE
- TWO-TRACK ROAD
- EXISTING CONTOURS



date	designed	checked
OCTOBER 2020	S. PASHUPATHAL	M. EVANS

Fremont County
Solid Waste Disposal District

FREMONT COUNTY	
2020 REMAINING AIRSPACE	
project	contract
125790	
drawing	FIGURE 4
sheet	4 of 4
rev.	A
Scale: 1" = 400'	

Dubois Landfill
2019-2020 Capacity Audit

Memorandum



Date: March 26, 2021

To: Fremont County Solid Waste Disposal District Board of Directors

From: Matt Evans, Burns & McDonnell

Subject: Fremont County Solid Waste Disposal District – Operations Summary

This memorandum presents the following:

- Summary of the District's financial position
- Summary of projected expenses and revenues
- Long-term closure/post-closure financial responsibilities
- Landfill operation metrics

Financial Position

The following table summarizes the key financial considerations for the four District facilities.

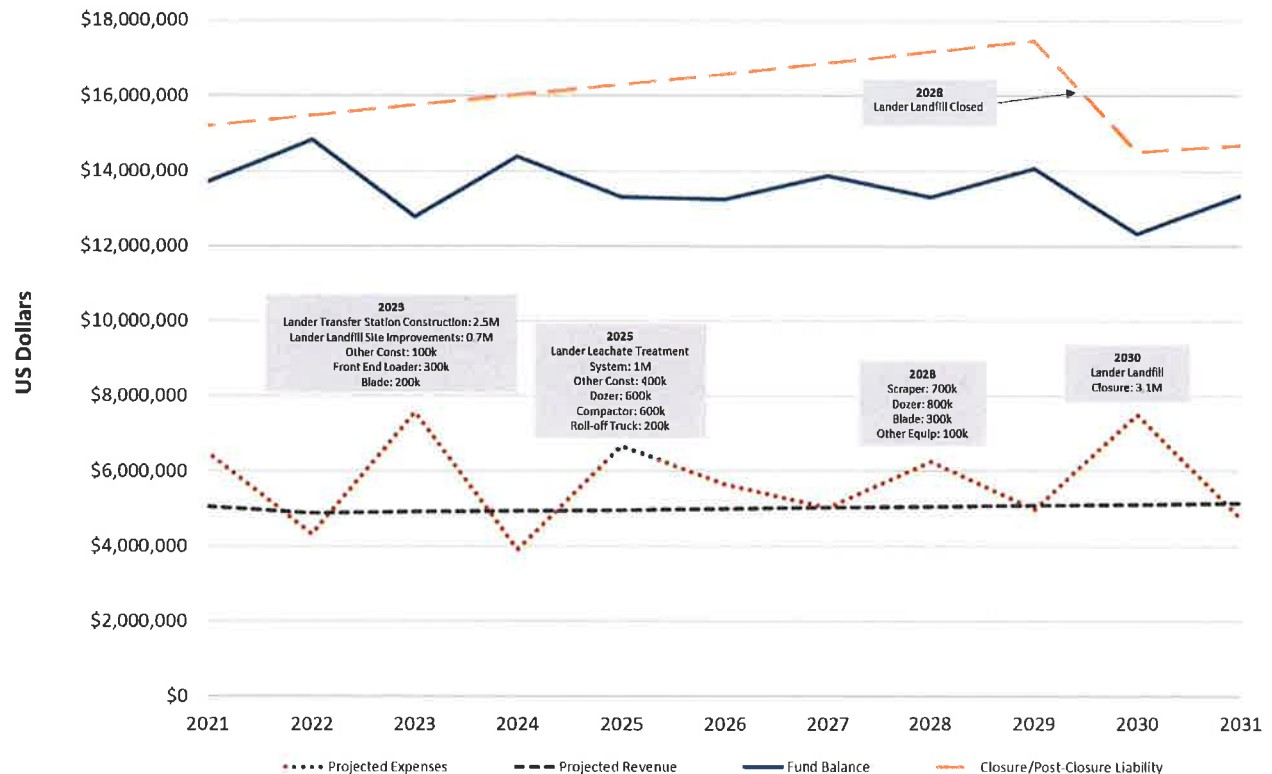
Site	FY 2019- 2020 AUF (lbs/yr ³)	Projected Closure Year	Closure Cost	"Immediate" Closure Cost	Post- Closure (30-yr)	Post- Closure (50-yr)	Future Development (2021-2041)	Closure / Post Closure / Future Development Fund Balance
Lander	1,098	2028	\$2,719,660	\$2,702,000	\$3,005,560	\$3,506,487	\$5,041,346	-
Sand Draw	1,029	2054 (active area)	\$3,522,610	\$5,902,610	\$2,808,610	\$3,276,712	\$1,291,346	-
Shoshoni	N/A	2021	\$1,319,210	\$217,000	\$575,760	\$670,553	\$0	-
Dubois	542	2075	\$311,970	\$1,323,210	\$813,530	\$949,118	\$3,105,208	-
Total	-	-	\$7,873,450	\$10,144,820	\$7,203,460	\$8,402,870	\$9,437,899	\$ 16,466,876

March 26, 2021

Page 2

The 10-year financial projection for the District is presented in the following figure.

District 10-Year Financial Projection



The information shown on the figure corresponds to the following.

- *Projected Expenses*: Total labor, general operating, equipment purchases, and construction expenses.
- *Projected Revenue*: Total revenue from fees, mill levy, auto tax and all other forms of District revenue.
- *Fund Balance*: District bank account that is set aside for landfill closure, post-closure and other large District construction projects.
- *Annual Construction and Equipment Expenses*: Large construction and equipment expenses are summarized in boxes corresponding to the year of the expense.

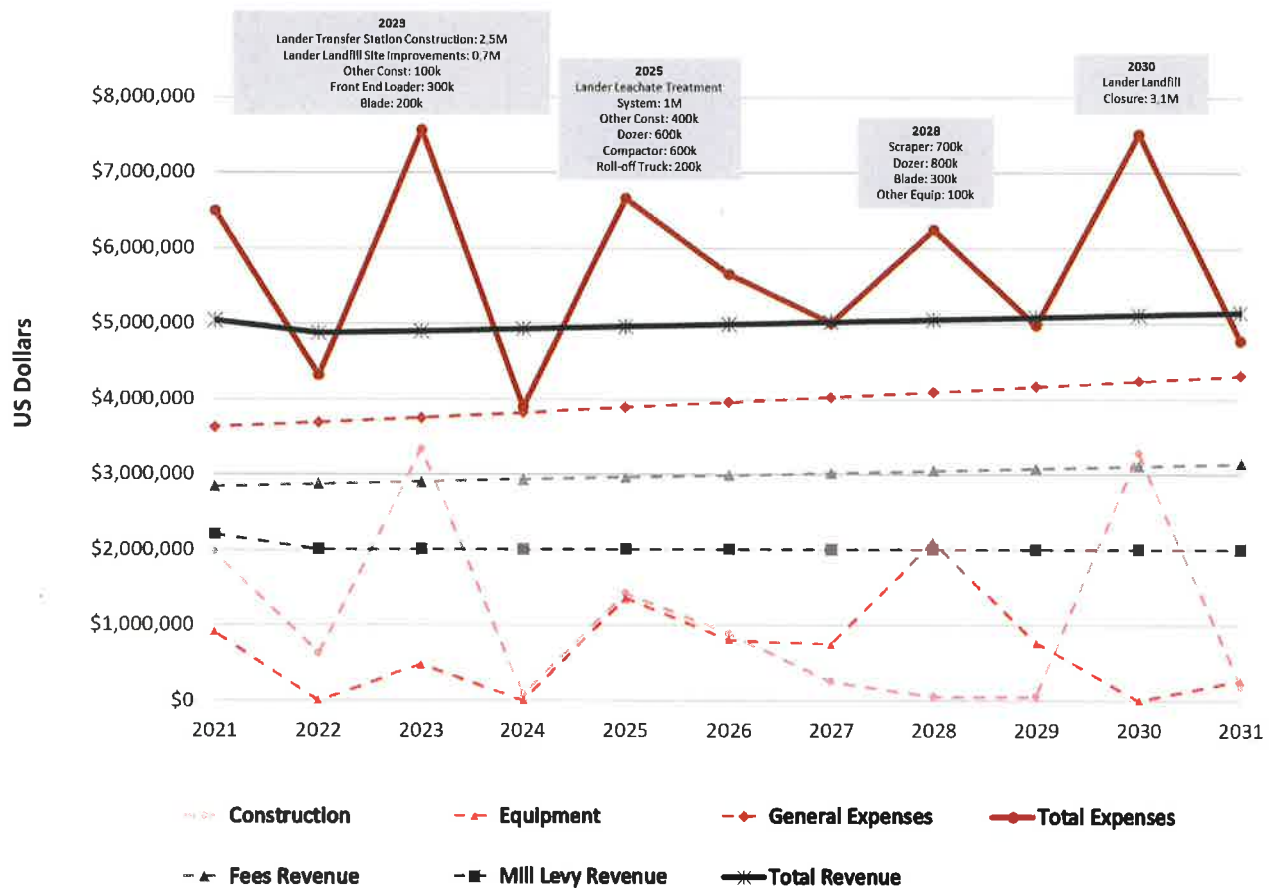
Expenses and Revenues

The projected expenses and revenues for the District are summarized on the following Figure:

March 26, 2021

Page 3

District Projected Revenues and Expenses



The information on the figure above corresponds to the following.

- **Construction:** Anticipated schedule and costs of all District construction project. Major construction projects are summarized in the boxes within the figure.
- **Equipment:** Anticipated replacement dates and costs of all District equipment. Major equipment replacements are summarized in the boxes within the figure.
- **General Expenses:** Labor, general operating, fuel, insurance and all other non-construction and non-equipment replacement expenses.
- **Total Expenses:** Sum of construction, equipment, and general expenses.
- **Fees Revenue:** Revenue from tipping fees and other customer charges (e.g., confidential disposal charges, tarp fees, etc.).

March 26, 2021

Page 4

- *Mill Levy Revenue:* Mill levy and auto tax revenue. Note that it is assumed that mill levy revenue in 2022 will be approximately \$200,000 less than 2021 and then hold at that amount through the remainder of the projection period.
- *Total Revenue:* Sum of fee revenue and mill levy revenue.

Long-Term Closure and Post-Closure Liabilities

The District's four landfills have significant closure and post-closure expenses. The following summarizes the anticipated amount and timing of those expenses.

Closure and Post-Closure Costs

	Projected Closure Date	Closure Cost	Post-Closure Costs (30-year total)	Post-Closure Costs (50-year total)
Dubois	2075	\$311,970	\$813,530	\$949,118
Lander	2028	\$2,719,660	\$3,005,560	\$3,506,487
Sand Draw	2054	\$3,522,610	\$2,808,610	\$3,276,712
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Total Liability		\$7,873,450	\$7,203,460	\$8,402,870

Note: All costs are Present Value (2020).

The District's total closure and post-closure liability, assuming a 30-year closure period, is \$15,076,910. If the post-closure period were to extend to 50-years, the total liability increases to \$16,276,320. Costs to be incurred during the post-closure period include groundwater monitoring, erosion control, fencing, reporting, and other activities necessary to maintain the landfills after their closed and before they are stable enough to stop monitoring.

March 26, 2021

Page 5

Landfill Operation Metrics

The following table summarizes the landfill metrics for each of the four landfills for the 2019-2020 fiscal year.

2019 – 2020 Landfill Metrics

	Tons Disposed	Volume Consumed (cubic yards)	Airspace Utilization (lbs. per cubic yard)	Remaining Volume (cubic yards)	Soil Balance (cubic yards)
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Lander	31,829	57,991	1,098	480,224	92,000
Sand Draw	3,653	7,104	1,029	2,364,051	341,790
Shoshoni¹	NA	12,854	NA	5,864	29,700

Notes:

1. Shoshoni landfill does not have a scale. All waste received is measured in volume. All three other landfills weigh waste received prior to disposal.

2. Soil balance is the net volume of soil available onsite for all future landfill operations. All four landfills are in a surplus situation.

NA = Not Applicable

lbs = pounds

The following summarizes the information presented in the table above.

Tons Disposed: The weighed amount of waste disposed of in the landfill during the audited year.

Volume Consumed: The airspace consumed in the landfill during the audited year.

Airspace Utilization: An industry standard metric for measuring the efficiency of filling operations. The higher the airspace utilization the longer the more waste that can be disposed of in the landfill footprint; thus, extending the life of the landfill and delaying construction of a new landfill. A good landfill operation maintains an airspace utilization between 1,000 and 1,200 lbs per cubic yard. Lower airspace utilizations can occur at construction and demolition debris landfills (e.g., the Dubois Landfill) due to the bulky nature of the waste received.

Remaining Volume: The remaining permitted airspace in the landfill at the end of the audited year.

Soil Balance: The volume of onsite soil that can be used for cover operations less the amount of soil that is needed for cover operations.

Closing

Additional details, including assumptions, are included in the annual landfill capacity reports. Figures and tables used to complete landfill calculations are also included.



February 10, 2021

Mr. Andrew Frey, P.E.
Superintendent
Fremont County Solid Waste Disposal District
P.O. Box 1400
Lander, WY 82520

Re: FY 2019-2020 Capacity Audit for Dubois Landfill, Fremont County, Wyoming

Dear Mr. Frey:

Burns & McDonnell has completed volume and airspace utilization calculations for the Dubois Landfill in accordance with Authorization No. 28 dated July 20, 2020. The calculations are based on comparing the July 16, 2019, survey completed by William H. Smith & Associates, Inc. to the July 9, 2020, survey and revised final cover grades and excavation plan developed during FY 2019-2020. The revised drawings are included for reference.

Attached are drawings showing the existing conditions, final cover plan, and the cut/fill depths between the 2020 and 2019 surveys and the final cover contours. The figures include:

- ▶ Figure 1 – 2020 Existing Conditions
- ▶ Figure 2 – Final Cover Plan
- ▶ Figure 3 – 2020 Airspace Consumed (July 2020 Survey over July 2019 Survey)
- ▶ Figure 4 – 2020 Airspace Remaining (Final Cover Plan compared to July 2020 Survey)
- ▶ Figure 5 – 2020 Excavation Remaining (July 2020 Survey over Final Base Grades)

Also attached are tables showing the projected remaining life and closure and post-closure costs.

AIRSPACE UTILIZATION

The results of the volume calculations were used to obtain the current airspace utilization factor (AUF). The volumes were calculated using AutoCAD Civil 3D.

The calculated AUF for the landfill over the period from July 16, 2019, and July 9, 2020, is 542 pounds per cubic yard (lb/cy). This value was calculated by dividing the total weight of waste disposed by the total consumed airspace (including daily cover soil) over the same period. Per District records, the total construction and demolition (C&D) tonnage placed in the landfill over

the period of the surveys was 577.65 tons.¹ Per survey the total consumed airspace was calculated to be 2,132 cubic yards.

LANDFILL CAPACITY

Based on the airspace remaining between the top of final cover and the base of the landfill surface, the remaining waste capacity of the Dubois Landfill, as currently permitted, is estimated to be approximately 186,714 cubic yards (42,127 cubic yards between the existing surface and final cover plus 144,587 cubic yards between the existing surface and base of the landfill). This remaining capacity does not include final cover or intermediate cover.

FUTURE AIR SPACE CONSUMPTION RATES AND SITE LIFE

The amount of C&D waste that was landfilled at the Dubois Landfill in FY 2019-2020 was 578 tons. The tonnage received at the landfill has varied over the last eight years. The following tonnages of waste have been received at the landfill since 2012:

- ▶ July 1, 2012 to June 30, 2013 = 370 tons
- ▶ July 1, 2013 to June 30, 2014 = 504 tons
- ▶ July 1, 2014 to June 30, 2015 = 852 tons
- ▶ July 1, 2015 to June 30, 2016 = 316 tons
- ▶ July 1, 2016 to June 30, 2017 = 408 tons
- ▶ July 1, 2017 to June 30, 2018 = 414 tons
- ▶ July 1, 2018 to June 30, 2019 = 445 tons
- ▶ July 16, 2019 to July 9, 2020 = 578 tons
- ▶ Average = 485 tons

C&D waste tonnage was consistent in FY 2019-2020 with the average tonnage over the last eight years. Variance of annual construction and demolition waste tonnage is common depending on weather, demolition projects, and economic development. For purposes of calculating the remaining landfill life, the site average was used as a starting point for future estimates, as well

¹ Total tonnage received at the landfill during the period between July 16, 2019, and July 9, 2020, survey was comprised of 578 tons of construction and demolition debris (C&D) waste, 0.14 tons of biowaste, 6 tons of carcasses, 1,53 tons of MSW, 11 tons of sump waste, 226 tons of yard waste, 2 tons of animal waste, and 2 tons of out of county waste.

as a 1.0% annual growth rate was used. Using the average tonnage will help to even out the projections as each year of the capacity audit report fluctuates with local C&D projects.

Projections are based on an airspace utilization factor of 452 lb/cy, which is the six-year average of FY 2013-2014 through FY 2019-2020. Similar to the projection of tonnages, the use of an average AUF value will calculate a more constant remaining capacity projection from year to year.

Based on the growth rate, AUF assumptions, and remaining waste capacity, the Dubois Landfill will reach capacity at the beginning of 2075.

SOIL BALANCE

Soil balance calculations were completed by comparing the amount of soil required for landfill operations to the amount of soil available onsite. The following summarizes the soil required and available.

Soil Required:

- ▶ Routine Soil – Assuming a waste to routine cover soil ratio is 10:1, the approximate amount of routine cover soil required for the remaining life of the Dubois Landfill is 17,264 cubic yards. Based on the remaining site life calculations discussed above, there are approximately 186,714 cubic yards of remaining waste and soil cover airspace; thus, approximately 17,344 cubic yards of soil are needed for routine cover in the landfill operation.
- ▶ Final Cover Soil – The amount of soil required to close the landfill is estimated to be 28,209 cubic yards based on the currently permitted cover profile that includes 30-inches of soil.
- ▶ Total Soil Requirements – The total soil requirement for the Dubois Landfill for the remainder of the site life is 45,473 cubic yards.

Soil Available:

- ▶ Potential Soil from Excavation of Permitted Cells – Based on the annual survey and a proposed excavation plan for the landfill, the amount of excavation remaining at the site to reach final grades is approximately 144,587 cubic yards.

Soil Balance:

- ▶ Based on the estimates provided above, the Dubois Landfill has a soil surplus of approximately 99,000 cubic yards.

CLOSURE AND POST-CLOSURE COST ESTIMATES

Burns & McDonnell has completed cost estimates for closure and post-closure management of the Dubois Landfill. The estimated present value of the closure cost for the Landfill is \$311,970,



Mr. Andrew Frey, PE
February 10, 2021
Page 4

which is a \$6,580 increase compared to 2019. The increase is due to annual inflation of construction costs.

The estimated combined present value of the post-closure cost for the C&D landfill and MSW landfill is \$813,530. The post-closure cost estimate is based on an assumed 30-year post-closure period. The closure and post closure cost estimates are attached.

It should be noted that Federal EPA guidelines require states to enforce a **minimum** 30-year post closure period. It is likely that post-closure will extend beyond 30-years – although at a lower cost. For post-closure to come to an end the landfill needs to be stable and not producing leachate and/or landfill gas at significant levels that warrant monitoring. For comparison, the post-closure cost of 50-years, assuming a 75% reduction in annual post-closure costs due to reduced sampling and property management costs for years 31- 50, is \$949,118.

CLOSING

Should you have any questions regarding this letter report, please do not hesitate to contact Matt Evans at 952-656-3629 or at maevans@burnsmcd.com.

Sincerely,

Burns & McDonnell

A handwritten signature in black ink, appearing to read "Matthew J. Evans". The signature is fluid and cursive, with the first name being the most prominent.

Matthew J. Evans, PE
Project Manager

Tables

DUBOIS LANDFILL-2020 REMAINING AIRSPACE

DATE: 10/23/2020

C&D Tonnage=

Predicted Future Generation Growth =

Aispace Utilization Factor (AUF)=

Remaining Capacity (without final cover) =

578	tons
1%	
452	lb/cy
186,714	cy

Remaining Airspace Table

Year	Total Tonnage (Dubois)	Annual Airspace Consumed (cy)	Remaining Capacity (cy)
2020	266	1,177	185,537
2021	583	2,583	182,954
2022	589	2,609	180,346
2023	595	2,635	177,711
2024	601	2,661	175,050
2025	607	2,688	172,363
2026	613	2,714	169,648
2027	619	2,742	166,907
2028	626	2,769	164,138
2029	632	2,797	161,341
2030	638	2,825	158,516
2031	644	2,853	155,663
2032	651	2,881	152,782
2033	657	2,910	149,872
2034	664	2,939	146,932
2035	671	2,969	143,964
2036	677	2,998	140,965
2037	684	3,028	137,937
2038	691	3,059	134,878
2039	698	3,089	131,789
2040	705	3,120	128,669
2041	712	3,151	125,517
2042	719	3,183	122,335
2043	726	3,215	119,120
2044	733	3,247	115,873
2045	741	3,279	112,594
2046	748	3,312	109,282
2047	756	3,345	105,936
2048	763	3,379	102,558
2049	771	3,412	99,145
2050	779	3,447	95,698
2051	786	3,481	92,217
2052	794	3,516	88,702
2053	802	3,551	85,150
2054	810	3,587	81,564
2055	818	3,622	77,941
2056	826	3,659	74,283
2057	835	3,695	70,588
2058	843	3,732	66,855
2059	852	3,770	63,086
2060	860	3,807	59,279
2061	869	3,845	55,433
2062	877	3,884	51,550
2063	886	3,923	47,627
2064	895	3,962	43,665
2065	904	4,001	39,664
2066	913	4,041	35,623
2067	922	4,082	31,541
2068	931	4,123	27,418
2069	941	4,164	23,254
2070	950	4,206	19,049
2071	960	4,248	14,801
2072	969	4,290	10,511
2073	979	4,333	6,178
2074	989	4,376	1,802
2075	998	4,420	-2,618
2076	1,008	4,464	-7,082
2077	1,019	4,509	-11,591
2078	1,029	4,554	-16,145
2079	1,039	4,600	-20,745
2080	1,049	4,646	-25,390
2081	1,060	4,692	-30,082
2082	1,071	4,739	-34,821
2083	1,081	4,786	-39,607
2084	1,092	4,834	-44,442
2085	1,103	4,882	-49,324
2086	1,114	4,931	-54,255
2087	1,125	4,981	-59,236
2088	1,136	5,030	-64,266
2089	1,148	5,081	-69,347

<== Capacity Reached in 2075

**Closure Cost Estimate
Northeast (C&D) Area
Dubois Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
Mobilization & General Site Preparation						
1	Mobilization, Demobilization, Bonding, Insurance	8	%	\$ 182,800.00	\$ 14,600.00	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	\$ 182,800.00	\$ 9,100.00	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	1	DAY	\$ 2,330.00	\$ 2,330.00	Judgement; includes one heavy piece of equipment and one operator.
					\$ 26,030.00	
Site Grading and Associated Earthwork						
4	Grade intermediate cover	7	ACRE	\$ 1,690.00	\$ 11,830.00	Judgement based on similar projects
					\$ 11,830.00	
Final Cover						
5	Load, haul, and place final cover soil from on-site stockpile	11,300	CY	\$ 5.20	\$ 58,780.00	Judgement based on similar projects
					\$ 58,780.00	
East Channel Construction						
6	Channel Construction	800	LF	\$ 81.00	\$ 64,800.00	2012 Dubois Closure Bid
					\$ 64,800.00	
Site Reclamation						
7	Revegetate	348,480	SF	\$ 0.08	\$ 29,580.00	Judgement based on similar projects, includes soil amendments
8	Grade disturbed areas	8	ACRE	\$ 1,690.00	\$ 13,520.00	HCCD 31 22 16.10 3300; areas disturbed as part of channel construction
					\$ 43,100.00	
Miscellaneous						
9	Survey Control and As-Built documentation	1.0	DAY	\$ 4,240.00	\$ 4,240.00	WDEQ SWG #12
					\$ 4,240.00	
Engineering and Construction Management						
10	General public notification	1	LS	\$ 4,040.00	\$ 4,040.00	Judgement
11	Design and Bid Administration	10%	LS	\$ 208,800.00	\$ 20,880.00	Judgement, assumes 10% of construction cost
12	Construction Quality Assurance	10%	LS	\$ 208,800.00	\$ 20,880.00	Judgement, assumes 10% of construction cost
13	Construction Management	8%	LS	\$ 208,800.00	\$ 16,700.00	Judgement, assumes 8% of construction cost
				SUBTOTAL	\$ 62,500.00	
SUBTOTAL					\$ 271,280.00	
CONTINGENCY					\$ 40,690.00	
TOTAL CLOSURE COSTS					\$ 311,970.00	

ASSUMPTIONS & LIMITATIONS

- Pricing is for 2020 present value unless otherwise noted.
- Extended prices are rounded to the nearest \$10.

***Units:**

AC = acre
CY = cubic yard
DAY = day
EA = each
LF = linear foot
LS = lump sum
SF = square foot
SY = square yard
YR = year

HCCD = RSMeans Heavy Construction Cost Data, 2010; adjusted for inflation
Judgement - Professional judgement or estimation by Burns & McDonnell

**Post-Closure Cost Estimate
Southwest (MSW) Area
Dubois Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
1	Recordkeeping	30	YR	\$ 3,710	\$ 111,300	Judgement
2	Post-closure site Inspections	30	YR	\$ 860	\$ 25,800	WDEQ SWG 12
3	Methane Monitoring	30	YR	\$ 1,490	\$ 44,700	Judgement, based on similar project
4	Groundwater Monitoring	30	YR	\$ 11,460	\$ 343,800	2014 groundwater monitoring contract Judgement (ave 0.5 PLS @ 160, 8 hr GPS tech @\$100, 0.5hr datamgr @\$100, \$100 OCDs per day) one per year
5	Survey Control for settlement documentation	30	DAY	\$ 1,260	\$ 37,800	
6	Petition to terminate post-closure period	1	LS	\$ 3,710	\$ 3,710	Judgement
7	Methane Probe Abandonment	3	EA	\$ 570	\$ 1,710	Judgement based on previous experience with probe abandonment
8	Fence Maintenance Costs	3100	LF	\$ 14	\$ 43,420	WDEQ SWG 12
9	Fence Removal Costs	3100	LF	\$ 2	\$ 7,240	WDEQ SWG 12
10	Grounds maintenance	30	YR	\$ 1,140	\$ 34,200	Judgement; includes routine maintenance, revegetation of bare spots
SUBTOTAL					\$ 653,680	
CONTINGENCY					\$ 98,050	
TOTAL POST-CLOSURE COSTS					\$ 751,730	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2020 present value unless otherwise noted.
- 2 Extended prices are rounded to the nearest \$10.

***Units:**

DAY = day
EA = each
LF = linear foot
LS = lump sum
YR = year

Judgement - Professional judgement or estimation by Lowham Walsh
SWQ - Solid Waste Guideline
WDEQ - Wyoming Department of Environmental Quality

**Post-Closure Cost Estimate
Northeast (C and D) Area
Dubois Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
1	Recordkeeping	5	YR	\$ 3,710	\$ 18,550	Judgement
2	Post-closure site Inspections	5	YR	\$ 860	\$ 4,300	WDEQ SWG #12, adjusted for inflation
3	Groundwater Monitoring	5	YR	\$ 2,330	\$ 11,650	2014 groundwater monitoring contract Judgement (ave 0.5 PLS @ 160, 8 hr GPS tech @\$100, 0.5hr datamgr @\$100, \$100 OCDs per day) one per year
4	Survey Control for settlement documentation	5	DAY	\$ 1,260	\$ 6,300	
5	Fence Maintenance Costs	2000	LF	\$ 2	\$ 4,670	WDEQ SWG #12, adjusted for inflation
6	Petition to terminate post-closure period	1	LS	\$ 3,400	\$ 3,400	Judgement
7	Groundwater monitoring well abandonment	6	EA	\$ 680	\$ 4,080	Judgement, based on similar projects
8	Fence Removal Costs	2000	LF	\$ 0	\$ 790	WDEQ SWG #12, adjusted for inflation
SUBTOTAL					\$ 53,740	
CONTINGENCY					\$ 8,060	
TOTAL POST-CLOSURE COSTS					\$ 61,800	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2020 present value unless otherwise noted.
- 2 Extended prices are rounded to the nearest \$10.

***Units:**

DAY = day
EA = each
LF = linear foot
LS = lump sum
YR = year

Judgement - Professional judgement or estimation by Burns & McDonnell
SWG - Solid Waste Guideline
WDEQ - Wyoming Department of Environmental Quality

Figures

no	data	by	chkd	description
A	10/23/2020	SP	INJE	

NOTES:

1. SITE TOPOGRAPHY IS BASED ON THE JULY 9, 2020 SURVEY.
2. TOPOGRAPHY INSIDE BOUNDARY SHOWN IS FROM THE OCTOBER 13, 2020 SURVEY.
3. SITE TOPOGRAPHY MAY VARY DUE TO OWNERS CONSTRUCTION, COVER MATERIAL EXCAVATION, STOCKPILING, AND WASTE DISPOSAL.
4. INDEX CONTOUR INTERVAL IS TWO FEET.

LEGEND:

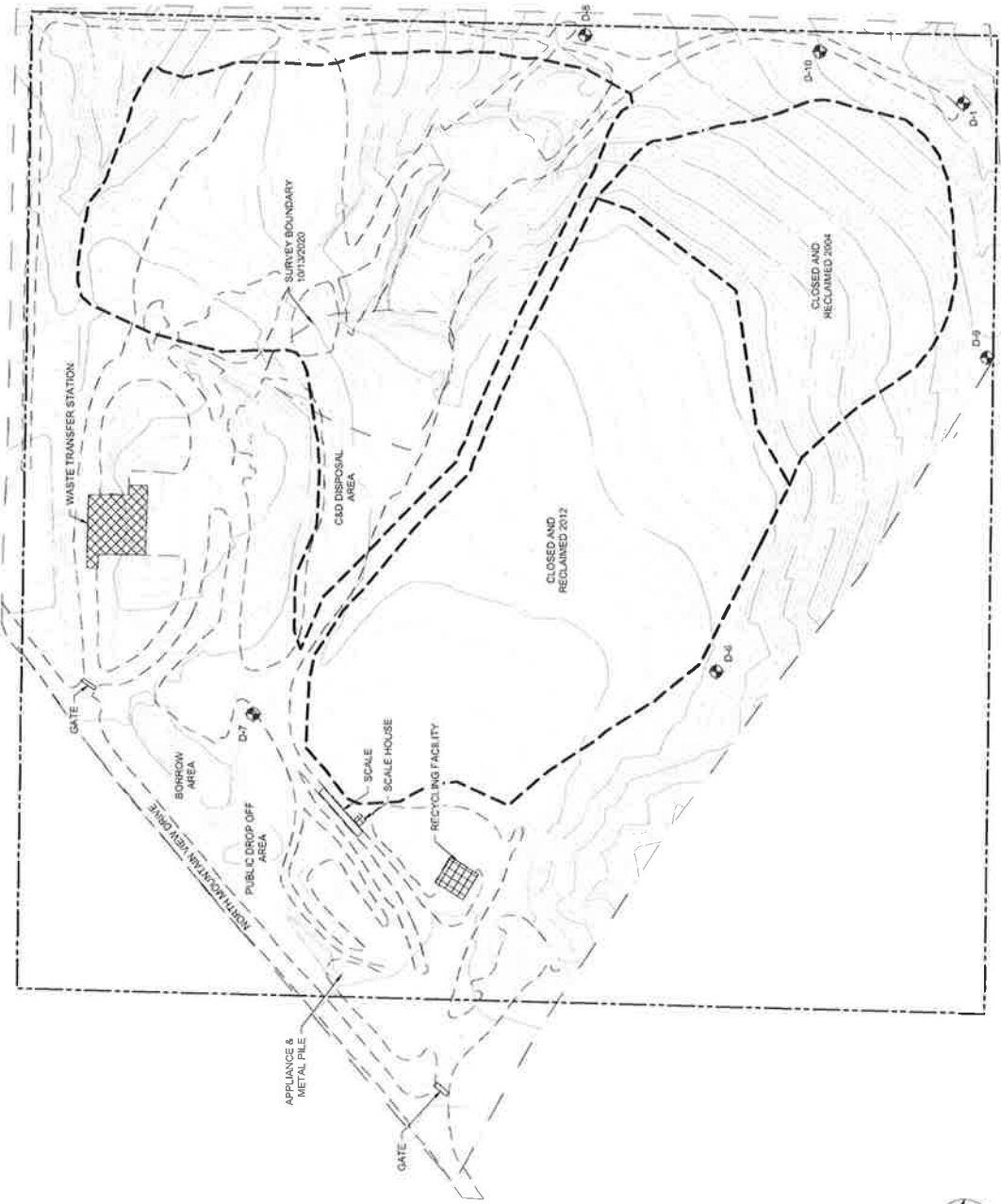
- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- EXISTING CONTOURS



date	designed	checked	approved
OCTOBER 2020	S. PASHUPATRA	M. EVANS	

Fremont County
Solid Waste Disposal District

FREMONT COUNTY	
2020 EXISTING CONDITIONS	
project	125750
drawing	FIGURE 1
sheet	1 of 5
file	



no.	date	by	aid	description
A	10/22/20	SP	MJE	

NOTES:

1. SITE TOPOGRAPHY IS BASED ON THE 2004 SURVEY TOPOGRAPHY INSIDE BOUNDARY SHOWN IS FROM THE OCTOBER 13, 2020 SURVEY.
2. REVISED TOP OF WASTE GRADES FOR BURNS & MCDONNELL IN MAY 2020.
3. DESIGN CONTOURS REPRESENT TOP OF WASTE DESIGN CONTOURS.
4. CONTOUR INTERVALS ARE TWO FOOT.

LEGEND:

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- EXISTING CONTOUR
- DESIGN CONTOUR



date	designed	checked	approved
OCTOBER 2020	S. PASHUPATHAL	M. EVANS	



FREMONT COUNTY			
DESIGN TOP OF WASTE CONTOURS			
project	125750	contract	
drawing	FIGURE 2	rev.	A
sheet	2	of	5
file			



1 2 3 4 5 6 7 8 9 10 11 12 13

1 2 3 4 5 6 7 8 9 10 11 12 13

no.	date	by	chkd	description
A	10/23/20	SP	M.E.	

NOTES:

1. THE ISOPACH SHOWN REPRESENTS THE CUT/FILL VOLUMES FROM THE SURVEY AND THE JULY 10, 2018 SURVEY.
2. TOPOGRAPHY INSIDE BOUNDARY SURVEYED FROM THE OCTOBER 13, 2020 SURVEY.
3. CONTOUR INTERVALS ARE TWO-FOOT.
4. THE FILL VOLUME USED IN THE AUF CALCULATIONS IS 1,450 CY + 1,087 CY = 6 INCHES OF COVER ACROSS THE TWO FILL AREAS = 2,132 CY.

ISOPACH:

- CUT
- FILL
- CY = CUBIC YARDS

LEGEND:

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- EXISTING CONTOURS



DATE	DESIGNED	CHECKED
OCTOBER 2020	S. PASHUPATHAL	M. EVANS



Fremont County
Solid Waste Disposal District

FREMONT COUNTY
2020 CONSUMED AIRSPACE
(2020 SURVEY OVER 2019 SURVEY)

PROJECT	CONTRACT
125750	
DRAWING	FIGURE 3
SHEET	3 OF 3





NOTES:

1. THE ISOPACH SHOWN REPRESENTS THE CUT/FILL BETWEEN THE MAY 2020 TOP OF WASTE CONTOURS AND THE JULY 8, 2020 SURVEY.
2. TOPOGRAPHY INSIDE BOUNDARY SHOWN IS FROM THE OCTOBER '13, 2020 SURVEY.
3. CONTOUR INTERVALS ARE TWO-FOOT.
4. FILL VOLUMES DO NOT INCLUDE FINAL COVERS.
5. THE PERMITTED FINAL COVER PROFILE IS 30-INCHES OF SOIL.

ISOPACH

- CUT
- FILL
- CY = CUBIC YARDS

LEGEND

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- PROPERTY BOUNDARY
- EXISTING CONTOURS



date	designed	checked	approved
OCTOBER 2020	S. PASHUPATHAL	M. EVANS	



Fremont County
Solid Waste Disposal District

project	contract	revision
2020 AIRSPACE REMAINING (FINAL COVER OVER 2020 SURVEY)	125750	FIGURE 4

sheet	of	of	of
4	5	5	5

**FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT
FISCAL YEAR 2021-2022 PROPOSED BUDGET
"HIGHLIGHTS"**

- >> Revenue from property taxes expected to be down approximately \$150,000 from last year (based on the mill levy) and down approximately \$340,000 from fiscal year 2019-2020.
- >> Expected addition to the closure, post-closure & future development reserve is \$1.8 million. This brings our total closure, post-closure & future development reserve to \$18,269,555, which is fully funded for closure and post-closure with \$3.2 million for future development
** Closure & Post-Closure estimated costs prepared by Burns & McDonnell as of 6/30/20 are \$15,075,910*
- >> There is no salary adjustment included in the proposed budget. We have budgeted for full employment which is 26 full-time positions and 2 part-time positions.
- >> The expected increase for health insurance is 4%.
The proposed budgeted amount assumes full employment for the full year.
- >> The expected increase for fuel costs is approximately 30%.

>> Major projects included in the proposed budget:

Shoshoni Closure	\$ 1,400,000
Engineering specs, plans & oversight for closure	\$ 145,000
Engineering specs, plans & oversight for scale facilities	\$ 110,000
Total proposed major projects	<u>\$ 1,655,000</u>

>> Major Capital Outlay included in the proposed budget:

2 Loaders	\$ 400,000
1 Pick-up truck	\$ 60,000
Utility tractor with mower	\$ 50,000
3 Roll-off containers	\$ 40,000
Scale facilities for Lander, Dubois & Sand Draw	\$ 2,000,000
Software upgrades & equipment for Scale houses	\$ 50,000
Total proposed Capital Outlay	<u>\$ 2,600,000</u>

Proposed Budget**FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT**[Click to Create a PDF](#)

PO Box 1400		Location: 52 Beebee Rd, Lander, WY 82520	
Lander, WY 82520		Date: TBD	
(307) 332-7040		Time: TBD	
Fremont County		Budget Prepared by: Susan Brodie, CPA	

S-A BUDGET MESSAGE WS 16-4-104(d)

The Fremont County Solid Waste Disposal District continues to work at operating an efficient solid waste program, striving to responsibly manage the tax monies of Fremont County.

The closure, post-closure & future development reserve is \$18.3 million and the cash reserve is \$750,000 for a total reserve balance of \$19 million, including \$1.8 million added with the fiscal year 2021-22 budget. All excess revenues and "carry-over" from the prior fiscal year are directed to the reserve account for future closure, post-closure monitoring and future development of disposal sites.

The budgeted expenses for fiscal year 2021-22 total approximately \$8.1 million. Significant expenditures included in the budgeted expenses are, as follows:

Shoshoni Landfill Closure - \$1.4 million (partially covered by a grant for \$640,000, which is included in budgeted revenue)

New Scale Facilities for Lander, Dubois & Sand Draw - \$2 million

Equipment Purchases - \$540,000 for 2 loaders, pickup truck, utility tractor w/ mower, and 3 roll-off containers.

The District has budgeted for full staff with regards to wages and wage related expenses. No wage adjustments were included in the budgeted wages. Health insurance increased approximately 4% and the Wyoming Retirement increased 0.5% (increase split between employees and employer contributions). The Worker's Compensation rate has been significantly reduced due to the Safety training implemented by the District.

In summary, the budgeted expenses exceed budgeted revenues by \$2.8 million. This is due largely to the projects identified above. The budgeted shortfall is covered by the cash "carry-over" resulting, in part, from the delay of the Shoshoni Closure. This project was previously budgeted, but has been delayed to allow for demolition projects in the town of Shoshoni.

S-B RESERVE DESCRIPTION

The Reserve account includes a cash reserve for approximately 3 months of operating funds and a reserve for the future closure, post-closure monitoring and future development of the County's landfills and transfer stations.

S-C

Names of Board Members	Date of End of Term
Steve Baumann	12/31/23
Rob Dolcater	12/31/23
Richard Klaproth	12/31/23
Michael Adams	12/31/22
Rodney Haper	12/31/22
Mark Moxley	12/31/22
Jennifer Lamb	12/31/21
Robert Townsend	12/31/21
Gary Weisz	12/31/21

Does the district have regular office hours exceeding 20 hours per week? ☒ Yes

If Yes, enter

Address of office: 52 Beebee Rd.

City, State, Zip: Lander, WY 82520

Phone Number: 307-332-7040

Hours Open: 8:00 a.m. - 5:00 p.m. Monday - Friday

Where are the minutes of your board meeting available for public review?

www.trashmatters.org

How and where are the notices of meeting posted for the public?

Published in the local newspaper.

Where are the public meetings held?

52 Beebee Road, Lander Wyoming

PROPOSED BUDGET SUMMARY

OVERVIEW		2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
S-1	Total Budgeted Expenditures	\$3,590,312	\$3,991,295	\$8,389,352	
S-2	Total Principal to Pay on Debt	\$0	\$0	\$0	
S-3	Total Change to Restricted Funds	\$754,120	\$1,849,760	\$1,802,679	
S-4	Total General Fund and Forecasted Revenues Available	\$10,569,251	\$6,916,315	\$10,192,031	
S-5	Amount requested from County Commissioners	\$2,426,726	\$2,220,000	\$2,063,961	
S-6	Additional Funding Needed :			\$0	

REVENUE SUMMARY		2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
S-7	Operating Revenues	\$3,119,333		\$2,620,500	
S-8	Tax levy (From the County Treasurer)	\$2,080,507	\$1,885,000	\$1,738,961	
S-9	Government Support	\$29,402	\$36,917	\$30,000	
S-10	Grants	\$32,654	\$0	\$640,346	
S-11	Other County Support (Not from Co. Treas.)	\$346,219	\$335,000	\$325,000	
S-12	Miscellaneous	\$513,429	\$211,691	\$204,100	
S-13	Other Forecasted Revenue	\$0	\$0	\$0	

S-14	Total Revenue	\$6,121,544	\$2,468,608	\$5,558,907	
FY 7/1/21-6/30/22					
FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT					

EXPENDITURE SUMMARY		2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
S-15	Capital Outlay	\$552,765	\$576,657	\$2,600,000	
S-16	Interest and Fees On Debt	\$0	\$0	\$0	
S-17	Administration	\$627,031	\$732,862	\$1,022,832	
S-18	Operations	\$1,766,169	\$1,962,338	\$3,804,070	
S-19	Indirect Costs	\$644,347	\$719,438	\$962,450	
S-20R	Expenditures paid by Reserves	\$0	\$0	\$0	
S-20	Total Expenditures	\$3,590,312	\$3,991,295	\$8,389,352	

DEBT SUMMARY		2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
S-21	Principal Paid on Debt	\$0	\$0	\$0	

CASH AND INVESTMENTS		2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
S-22	TOTAL GENERAL FUNDS	\$4,447,707	\$4,447,707	\$4,633,124	

Summary of Reserve Funds

S-23	Beginning Balance in Reserve Accounts	\$0	\$0	\$0	
S-24	a. Sinking and Debt Service Funds	\$14,612,996	\$15,367,116	\$17,216,876	
S-25	b. Reserves	\$0	\$0	\$0	
S-26	c. Bond Funds	\$14,612,996	\$15,367,116	\$17,216,876	
	Total Reserves (a+b+c)				
S-27	Amount to be added	\$0	\$0	\$0	
S-28	a. Sinking and Debt Service Funds	\$754,120	\$1,849,760	\$1,802,679	
S-29	b. Reserves	\$0	\$0	\$0	
S-30	c. Bond Funds	\$754,120	\$1,849,760	\$1,802,679	
	Total to be added (a+b+c)				
S-31	Subtotal	\$15,367,116	\$17,216,876	\$19,019,555	
S-32	Less Total to be spent	\$0	\$0	\$0	
S-33	TOTAL RESERVES AT END OF FISCAL YEAR	\$15,367,116	\$17,216,876	\$19,019,555	

End of Summary

Budget Officer / District Official (if not same as "Submitted by") _____

Date adopted by Special District _____

DISTRICT ADDRESS: PO Box 1400
Lander, WY 82520

PREPARED BY: Susan Brodie, CPA

DISTRICT PHONE: 3073327040

Proposed Budget

FREMONT COUNTY SOLID WASTE DISPOSAL DIS
NAME OF DISTRICT/BOARD

FYE 6/30/2022

PROPERTY TAXES AND ASSESSMENTS

- R-1 Property Taxes and Assessments Received**
R-1.1 Tax Levy (From the County Treasurer)
R-1.2 Other County Support (see note on the right)

DOA Chart of Accounts	2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
4001	\$2,080,507	\$1,885,000	\$1,738,961	\$1,738,961
4005	\$346,219	\$335,000	\$325,000	\$325,000

FORECASTED REVENUE

- R-2 Revenues from Other Governments**
R-2.1 State Aid
R-2.2 Additional County Aid (non-treasurer)
R-2.3 City (or Town) Aid
R-2.4 Other (Specify) Pmt in Lieu of Taxes
R-2.5 **Total Government Support**
R-3 Operating Revenues
R-3.1 Customer Charges
R-3.2 Sales of Goods or Services
R-3.3 Other Assessments
R-3.4 **Total Operating Revenues**
R-4 Grants
R-4.1 Direct Federal Grants
R-4.2 Federal Grants thru State Agencies
R-4.3 Grants from State Agencies
R-4.4 **Total Grants**
R-5 Miscellaneous Revenue
R-5.1 Interest
R-5.2 Other: Specify Miscellaneous
R-5.3 Other: See Additional
R-5.4 **Total Miscellaneous**
R-5.5 **Total Forecasted Revenue**

DOA Chart of Accounts	2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
4211				
4237				
4237				
4237	\$29,402	\$36,917	\$30,000	\$30,000
	\$29,402	\$36,917	\$30,000	\$30,000
4300	\$2,982,203	\$2,777,609	\$2,500,000	\$2,500,000
4300	\$137,130	\$115,381	\$90,500	\$90,500
4503	\$0	\$20,000	\$30,000	\$30,000
	\$3,119,333	\$2,912,990	\$2,620,500	\$2,620,500
4201				
4201				
4211	\$32,654	\$0	\$640,346	\$640,346
	\$32,654	\$0	\$640,346	\$640,346
4501	\$239,690	\$207,091	\$200,000	\$200,000
4500	\$4,005	\$4,600	\$4,100	\$4,100
	\$269,734			
	\$513,429	\$211,691	\$204,100	\$204,100
	\$3,694,818	\$3,161,598	\$3,494,946	\$3,494,946

- R-6 Other Forecasted Revenue**
R-6.1 a. Other past due as estimated by Co. Treas.
R-6.2 b. Other forecasted revenue (specify):
R-6.3 _____
R-6.4 _____
R-6.5 _____
R-6.6 **Total Other Forecasted Revenue (a+b)**

4004				
4500				
4500				
	\$0	\$0	\$0	\$0

Proposed Budget

FREMONT COUNTY SOLID WASTE DISPOSAL DIST
NAME OF DISTRICT/BOARD

FYE 6/30/2022

CAPITAL OUTLAY BUDGET

E-1 Capital Outlay

- E-1.1 Real Property
- E-1.2 Vehicles
- E-1.3 Office Equipment
- E-1.4 Other (Specify)
- E-1.5 Equipment
- E-1.6
- E-1.7
- E-1.8 TOTAL CAPITAL OUTLAY

DOA Chart of Accounts	2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
6201	\$54,928	\$50,000	\$2,000,000	\$2,000,000
6210				
6211	\$11,070	\$2,000	\$50,000	\$50,000
6200	\$486,767	\$524,657	\$550,000	\$550,000
6200				
	\$552,765	\$576,657	\$2,600,000	\$2,600,000

ADMINISTRATION BUDGET

E-2 Personnel Services

- E-2.1 Administrator
- E-2.2 Secretary
- E-2.3 Clerical
- E-2.4 Other (Specify)
- E-2.5 Office & Bookkeeping
- E-2.6 Other Management
- E-2.7

DOA Chart of Accounts	2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
7002	\$106,570	\$102,430	\$101,600	\$101,600
7003				
7004				
7005	\$88,888	\$93,329	\$94,000	\$94,000
7005	\$143,843	\$146,300	\$146,400	\$146,400

E-3 Board Expenses

- E-3.1 Travel
- E-3.2 Mileage
- E-3.3 Other (Specify)
- E-3.4 Board Travel, Seminar, Training
- E-3.5 Staff Travel, Seminar, Training
- E-3.6

7011				
7012				
7013	\$2,081	\$1,000	\$5,500	\$5,500
7013	\$5,109	\$2,382	\$10,000	\$10,000

E-4 Contractual Services

- E-4.1 Legal
- E-4.2 Accounting/Auditing
- E-4.3 Other (Specify)
- E-4.4 Engineering
- E-4.5 Contract Services/Public Communications
- E-4.6

7021	\$7,289	\$7,407	\$15,000	\$15,000
7022	\$38,300	\$28,500	\$34,132	\$34,132
7023	\$187,551	\$306,318	\$511,200	\$511,200
7023	\$2,813	\$2,000	\$15,000	\$15,000

E-5 Other Administrative Expenses

- E-5.1 Office Supplies
- E-5.2 Office equipment, rent & repair
- E-5.3 Education
- E-5.4 Registrations
- E-5.5 Other (Specify)
- E-5.6 Advertising
- E-5.7 Bank Fees
- E-5.8

7031	\$6,795	\$13,714	\$15,000	\$15,000
7032	\$9,548	\$3,681	\$35,000	\$35,000
7033				
7034				
7035	\$2,039	\$887	\$5,000	\$5,000
7035	\$26,205	\$24,914	\$35,000	\$35,000

E-6 TOTAL ADMINISTRATION

	\$627,031	\$732,862	\$1,022,832	\$1,022,832
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Proposed Budget

FREMONT COUNTY SOLID WASTE DISPOSAL DIST

FYE 6/30/2022

OPERATIONS BUDGET

E-7 Personnel Services

E-7.1	Wages--Operations	
E-7.2	Service Contracts	
E-7.3	Other (Specify)	
E-7.4	Safety	
E-7.5		
E-7.6		

E-8 Travel

E-8.1	Mileage	
E-8.2	Other (Specify)	
E-8.3		
E-8.4		
E-8.5		

E-9 Operating supplies (List)

E-9.1	Fuel, Lube, Filters	
E-9.2	Tools, Supplies, Tires	
E-9.3	Bale Wire	
E-9.4		
E-9.5		

E-10 Program Services (List)

E-10.1	Recycling - HHW & CCE	
E-10.2		
E-10.3		
E-10.4		
E-10.5		

E-11 Contractual Arrangements (List)

E-11.1	WRIR Transfer Stations	
E-11.2	Lease/Equipment Rentals	
E-11.3	Bad Debts	
E-11.4	Fin Assurance, Reg Fees/Exp	
E-11.5		

E-12 Other operations (Specify)

E-12.1	Utilities	
E-12.2	Transfer Stations/Scale Houses	
E-12.3	Baler/Heavy Equipment Repairs	
E-12.4	Site Maintenance	
E-12.5	see additional details	

E-13 TOTAL OPERATIONS

DOA Chart of Accounts	2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
7202	\$796,049	\$867,038	\$940,000	\$940,000
7203				
7204	\$19,084	\$22,097	\$30,000	\$30,000
7204				
7211				
7212				
7212				
7220	\$162,161	\$173,554	\$225,620	\$225,620
7220	\$33,223	\$55,846	\$69,000	\$69,000
7220	\$0	\$0	\$5,000	\$5,000
7220				
7230	\$127,823	\$206,900	\$169,000	\$169,000
7230				
7230				
7230				
7400	\$260,000	\$265,000	\$270,000	\$270,000
7400	\$24,354	\$19,395	\$86,000	\$86,000
7400	\$86	\$0	\$1,000	\$1,000
7400	\$814	\$1,000	\$5,000	\$5,000
7450	\$120,201	\$114,656	\$165,000	\$165,000
7450	\$23,006	\$8,465	\$35,000	\$35,000
7450	\$129,874	\$142,445	\$309,450	\$309,450
7450	\$69,494	\$85,942	\$94,000	\$94,000
			\$1,400,000	\$1,400,000
	\$1,766,169	\$1,962,338	\$3,804,070	\$3,804,070

Proposed Budget

FREMONT COUNTY SOLID WASTE DISPOSAL DIST

FYE 6/30/2022

INDIRECT COSTS BUDGET

E-14 Insurance

E-14.1	Liability
E-14.2	Buildings and vehicles
E-14.3	Equipment
E-14.4	Other (Specify)
E-14.5	Surety Bonds
E-14.6	
E-14.7	

E-15 Indirect payroll costs:

E-15.1	FICA (Social Security) taxes
E-15.2	Workers Compensation
E-15.3	Unemployment Taxes
E-15.4	Retirement
E-15.5	Health Insurance
E-15.6	Other (Specify)
E-15.7	Vacation/Sick Payout
E-15.8	Health Reimbursement Arrangement
E-15.9	see additional details

DOA Chart of Accounts	2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
7502	\$7,776	\$9,000	\$7,000	\$7,000
7503	\$24,893	\$29,425	\$37,000	\$37,000
7504				
7505	\$75	\$75	\$100	\$100
7505				
7511	\$78,620	\$83,709	\$92,600	\$92,600
7512	\$28,787	\$6,927	\$23,700	\$23,700
7513	\$9,767	\$3,821	\$15,000	\$15,000
7514	\$160,904	\$168,452	\$191,500	\$191,500
7515	\$310,949	\$330,594	\$464,000	\$464,000
7516	\$23	\$1,500	\$15,000	\$15,000
7516	\$22,553	\$51,123	\$74,550	\$74,550
		\$34,812	\$42,000	
E-17 TOTAL INDIRECT COSTS	\$644,347	\$719,438	\$962,450	\$962,450

DEBT SERVICE BUDGET

D-1 Debt Service

D-1.1	Principal
D-1.2	Interest
D-1.3	Fees
D-2	TOTAL DEBT SERVICE

DOA Chart of Accounts	2019-2020 Actual	2020-2021 Estimated	2021-2022 Proposed	Pending Approval
6401	\$0	\$0	\$0	
6410	\$0	\$0	\$0	
6420				
	\$0	\$0	\$0	

Proposed Budget

FREMONT COUNTY SOLID WASTE DISPOSAL DIST
NAME OF DISTRICT/BOARD

FYE 6/30/2022

GENERAL FUNDS

		End of Year	Beginning	Beginning	
		2019-2020	2020-2021	2021-2022	Pending
		Actual	Estimated	Proposed	Approval
C-1	Balances at Beginning of Fiscal Year				
C-1.1	General Fund Checking	1010	\$82,853	\$82,853	\$100,000
C-1.2	Savings and Investments	1040	\$4,364,854	\$4,364,854	\$4,533,124
C-1.3	General Fund CD Balance	1050		\$0	
C-1.4	All Other Funds	1020		\$0	
C-1.5	Reserves (From Below)		\$15,367,116	\$15,367,116	\$19,019,555
C-1.6	Total Estimated Cash and Investments on Hand		\$19,814,823	\$19,814,823	\$23,852,679
C-2	General Fund Reductions:				
C-2.1	a. Unpaid bills at FYE	2010	\$143,648		
C-2.2	b. Reserves		\$15,367,116	\$17,216,876	\$19,019,555
C-2.3	Total Deductions (a+b)		\$15,510,764	\$17,216,876	\$19,019,555
C-2.4	Estimated Non-Restricted Funds Available		\$4,304,059	\$2,597,947	\$4,633,124

DOA Chart of Accounts

SINKING & DEBT SERVICE FUNDS

1070

		2019-2020	2020-2021	2021-2022	Pending
		Actual	Estimated	Proposed	Approval
C-3					
C-3.1	Beginning Balance in Reserve Account (end of previous year)		\$0	\$0	
C-3.2	Date of Reserve Approval in Minutes:				
C-3.3	Amount to be added to the reserve				
C-3.4	Date of Reserve Approval in Minutes:				
C-3.5	SUB-TOTAL	\$0	\$0	\$0	\$0
C-3.6	Identify the amount and project to be spent				
C-3.7	a.				
C-3.8	b.				
C-3.9	c.				
C-3.10	Date of Reserve Approval in Minutes:				
C-3.11	TOTAL CAPITAL OUTLAY (a+b+c)	\$0	\$0	\$0	\$0
C-3.12	Balance to be retained	\$0	\$0	\$0	\$0

RESERVES

1090

		2019-2020	2020-2021	2021-2022	Pending
		Actual	Estimated	Proposed	Approval
C-4					
C-4.1	Beginning Balance in Reserve Account (end of previous year)	\$14,612,996	\$15,367,116	\$17,216,876	\$19,019,555
C-4.2	Date of Reserve Approval in Minutes:				
C-4.3	Amount to be added to the reserve	\$754,120	\$1,849,760	\$1,802,679	\$1,802,679
C-4.4	Date of Reserve Approval in Minutes: with Budget Approval				
C-4.5	SUB-TOTAL	\$15,367,116	\$17,216,876	\$19,019,555	\$19,019,555
C-4.6	Identify the amount and project to be spent				
C-4.7	a.				
C-4.8	b.				
C-4.9	c.				
C-4.10	Date of Reserve Approval in Minutes:				
C-4.11	TOTAL OTHER RESERVE OUTLAY (a+b+c)	\$0	\$0	\$0	\$0
C-4.12	Balance to be retained	\$15,367,116	\$17,216,876	\$19,019,555	\$19,019,555

BOND FUNDS

1060

		2019-2020	2020-2021	2021-2022	Pending
		Actual	Estimated	Proposed	Approval
C-5					
C-5.1	Beginning Balance in Reserve Account (end of previous year)		\$0	\$0	
C-5.2	Date of Reserve Approval in Minutes:				
C-5.3	Amount to be added to the reserve				
C-5.4	Date of Reserve Approval in Minutes:				
C-5.5	SUB-TOTAL	\$0	\$0	\$0	\$0
C-5.6	Identify the amount and project to be spent				
C-5.7	Date of Reserve Approval in Minutes:				
C-5.8	Balance to be retained	\$0	\$0	\$0	\$0
C-5.9	TOTAL TO BE SPENT	\$0	\$0	\$0	\$0