



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

January 21, 2019 - 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, Gina Clingerman, Jennifer Lamb, 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 Minutes:
 - i. Regular December 2018 Board Meeting
- b. Approval of the Accounts Payable
 - i. December 2018 Invoices
- 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. Introduction of New Board Members
- b. Introduction of New Commissioner Liaison – Mike Jones
- c. Board Officer Elections (Chairman, Vice-Chairman, and Secretary/Treasurer) (*Discussions and Formal Action*)
- d. Mileage Reimbursement Rate Notice - \$0.58 per mile (IRS established rate) (*Discussions*)
- e. New Year/Board Resolutions (*Discussions and Formal Action*)
 - i. Proposed Resolution 01-2019 – Authorized Depositors
 - ii. Proposed Resolution 02-2019 – Authorized Account Signers
 - iii. Proposed Resolution 03-2019 – Authorized Facsimile Signatures (State of WY requirement)
- f. Trihydro – Change Order Request (Time Only) (*Discussions and Formal Action*)
- g. Town of Shoshoni – Fee Reduction and/or Waiver Request (*Discussions and Formal Action*)
- h. FCSWDD Rules and Regulations – Proposed Changes (*Discussions and Formal Action*)
- i. Rural Transfer Station Analysis Report (*Discussions*)
- j. Recruitment Discussions (*Discussions*)
- k. Health Benefit and Wage Committee Update (*Discussions*)

PLEASE BE SURE TO ADDRESS THE CHAIR PERSON AND TURN OFF CELL PHONES

4. NEW BUSINESS

5. CALL FOR ADJOURNMENT

6. UPCOMING MEETING(S):

- a. The next Regularly Scheduled Meeting(s):
 - i. February 20, 2019, at 9:30 a.m.



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FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT

Minutes of Regular Board Meeting

December 17, 2018

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 MOXLEY at 9:30am. CHAIRMAN MOXLEY 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>	Mark Moxley, Steve Baumann, Rick Klaproth, Rob Dolcater, and Mike Adams
<u>Excused Member(s):</u>	Gina Clingerman, Mike Morgan, and Gary Wesiz
<u>Unexcused Member(s):</u>	None
<u>Commissioner Liaison:</u>	Jennifer McCarty
<u>Community Liaisons:</u>	None Present
<u>Attorney:</u>	Rick Sollars (Western Law & Assoc.)
<u>Staff:</u>	Andrew Frey (Superintendent) & Linda Kummer (Bookkeeper)
<u>Consultant(s):</u>	None Present
<u>Guest(s):</u>	Robert Fay

d. **Approval of Agenda**

STEVE BAUMANN made a motion to approve the agenda, removing the Superintendent's Report from the Consent Items for additional discussion. SECRETARY/TREASURER KLAPROTH seconded the motion.

MOTION CARRIED

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

CHAIRMAN MOXLEY opened the floor to public comment. No comment was made.

2. **CONSENT ITEMS:**

a. **Approval of Prior Meeting Minutes**

i. December 2018 Board Meeting

b. **Approval of Accounts Payable**

i. December 2018 Invoices

c. **Acceptance of Consultants Reports:**

- i. Trihydro Corporation – Progress Report
- ii. Burns and McDonnell – Progress Report
- iii. Eastern Shoshone Tribe Solid Waste – No Report Submitted

d. **Acceptance of Staff Reports:**

- i. Superintendent Report → **REMOVED FOR DISCUSSION**

Discussion(s): (1.) STEVE BAUMANN pointed out to the Board and those in attendance that two great successes were noted in the report. First, both Tribes signed the solid waste agreement that was negotiated with their groups and the new agreement is fully in place. The second item included the amount of time that has passed for the staff members without a single lost time accident/incident. The Riverton staff has made 3-year and 5-months, and the Lander staff has made 2-years and 10-months.

ROB DOLCATER made a motion to approve the Superintendent's Report as presented. STEVE BAUMANN seconded the motion. **MOTION CARRIED**

3. **OTHER ITEMS OF BUSINESS:**

a. **Burns and McDonnell Engineering Project Summary – Matt Evans (*Discussions and Presentation*)**

Superintendent Frey reviewed the current permit status with the Board. The Lander Landfill lifetime operating permit has been approved, the Sand Draw Landfill lifetime operating permit has been approved, and the Shoshoni Landfill closure permit has been approved. The Dubois permitting structure was modified in a way that split the C&D landfill permit away from the closed MSW landfill. The change allowed the MSW landfill that was closed in 2013 to begin its post-closure period and created a separate permit for the C&D portion. The Dubois C&D Landfill lifetime operating permit has been approved. Previously the operating permits were approved for a four-year period, but new rules developed by the WDEQ-SHWD with comment by stakeholders now allow for lifetime permits (actually 25-year permits) with a requirement for annual repots for each site to be submitted to note activity and upcoming changes.

Matt Evans (Burns and McDonnell) discussed the annual capacity audits completed at the District's landfills. Included in the discussions was a summary of airspace utilization, compactions efforts of waste, alternative daily covers, comparisons between the previous bale filling techniques and the current in-place waste compaction techniques, the projected life of the landfills, and noted the value of the implemented flow control.

Discussion(s): (1.) Commissioner McCarty commented on her concern with the current solid waste agreement between the District and the Tribes.

4. **NEW BUSINESS**

- a. **Annual Report – CHAIRMAN MOXLEY** informed the Board that he feels the District should complete an annual report at the end of each calendar year for distribution to the community. These reports would summarize the year's activities, highlights, and achievements. It would also include photos, revenues, expenses, programs, recycle programs, etc. The process/project would be similar to what is completed by the Popo Agie Conservation District.

5. **CALL FOR ADJOURNMENT**

SECRETARY/TREASURER KLAPROTH made a motion to adjourn at 11:06am. VICE-CHAIRMAN ADAMS seconded the motion. ***MOTION CARRIED***

6. **UPCOMING MEETING(S):**

a. **The Next Regularly Scheduled Meeting:**

- i. January 21, 2019, at 9:30am.

Respectfully submitted by,

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

Mark Moxley
Board of Director's Chairman
Fremont County Solid Waste Disposal District

01/15/19

Accrual Basis

Fremont County Solid Waste Disposal District

Balance Sheet

As of December 31, 2018

	Dec 31, 18	Dec 31, 17
ASSETS		
Current Assets		
Checking/Savings		
122105 · Petty Cash	300.00	300.00
122106 · Transfer Station Cash	200.00	200.00
122107 · Scale House Cash	1,600.00	1,600.00
123110 · CB&T Checking	80,414.07	8,442.11
123115 · Edward Jones Investments	5,426,391.27	4,804,998.09
123120 · Bank of Jackson Hole	36,205.92	6,390.92
123130 · WYO STAR	7,897,640.40	7,289,434.92
124135 · U.S. Bank	1,312,129.84	439,840.00
Total Checking/Savings	14,754,881.50	12,551,206.04
Accounts Receivable	786,137.28	362,761.75
Other Current Assets	12,448.78	25,540.43
Total Current Assets	15,553,467.56	12,939,508.22
TOTAL ASSETS	15,553,467.56	12,939,508.22
LIABILITIES & EQUITY		
Liabilities		
Current Liabilities		
Accounts Payable	78,545.77	95,215.95
Other Current Liabilities	10,740.63	12,004.20
Total Current Liabilities	89,286.40	107,220.15
Total Liabilities	89,286.40	107,220.15
Equity		
380190 · Fund Balance - Undesignat...	-708,684.02	-47,746.26
380860 · Cash Reserve	750,000.00	750,000.00
380970 · Closure/Post-Closure Rese...	13,862,996.00	10,973,496.00
Net Income	1,559,869.18	1,156,538.33
Total Equity	15,464,181.16	12,832,288.07
TOTAL LIABILITIES & EQUITY	15,553,467.56	12,939,508.22



memorandum

To: Andy Frey, P.E., Superintendent, Fremont County SWDD
From: Jeff Young, P.E.
cc: Fremont County SWDD Board
Date: January 14, 2019
Re: Project Updates for January 21, 2019 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 – FY 2018-2019 Monitoring (Task Order 10-023 / Trihydro Project 09Y-008-004)

Reports for the fall semiannual groundwater monitoring events for the Dubois, Lander, Sand Draw, and Shoshoni Landfills were completed in early January. Reports and report highlights were provided for client review, and all reports were finalized and shipped to WDEQ on January 8, 2018.

Trihydro is preparing three routine air quality reports for WDEQ/AQD, all due by the end of January. Deliverables will include compliance certification, non-methane organic compound (NMOC) emission rate reporting, and semiannual monitoring reporting. FCSWDD signature will be required for these reports.

On October 30, 2018, a Draft Title V operating permit was issued by WDEQ/AQD, and the document was provided to FCSWDD in late November. Trihydro reviewed the permit last month and had no concerns regarding content, although did note that the new permit will require formal semiannual emission observations for the used oil heater. The public notice period has ended, and there were no public comments. WDEQ/AQD submitted the permit to EPA for review on December 31, 2018.

Technical Assistance (Task Order 10-024 / Trihydro Project 09Y-005-005)

Technical assistance activities during the previous month included:

- A project status report was prepared for the monthly Board meeting.
- Additional drawing files were provided to Burns and McDonnell.



Andy Frey, FCSWDD
January 14, 2019
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Sand Draw Landfill – Water Balance Cover and Lifetime Operating Permit (Task Order 10-019 / Trihydro Project 09Y-001-005)

No updates to report.

Lander Landfill – Water Balance Cover and Lifetime Operating Permit (Task Order 10-020 / Trihydro Project 09Y-009-002)

The completion date for this project was December 31, 2018. Change Order No. 5 is included for execution, to extend the completion date for this project and conduct soil sampling, analysis, and reporting for the off-site borrow area (No. 4), located adjacent to the southern side of the landfill, on federal land managed by the U.S. Army Corps of Engineer. Additional soil sampling was completed on December 28, 2018 and samples were submitted for laboratory analysis. The remaining budget is adequate to complete the additional scope of work, so no additional funding is requested.

Shoshoni Landfill – Water Balance Cover and Closure Permit (Task Order 10-021 / Trihydro Project 09Y-004-002)

The Solid Waste Chapter 2 Closure Permit was issued on December 7, 2018 and a copy of that permit was provided to Trihydro via email on December 10, 2018. Trihydro is proceeding with the final project task, which includes preparation of a draft project manual.

It is our understanding that additional construction demolition associated with the Wyoming Life Resource Center will be placed in the Shoshoni landfill. Once demolition projects are completed, another site survey will be necessary to determine how much disposal capacity remains, if any, and whether changes to the permitted design will be necessary. Potential changes are expected and will affect the previous release for bid date of the first quarter of 2019.

The closure will require coverage under the State's Large Construction General Permit, which is part of Wyoming's Pollution Discharge Elimination System Program (WYPDES). The current Stormwater Pollution Prevent Plan (SWPPP) was prepared in 2003 for operations, and is out-of-date and inadequate for closure. The Superintendent has directed Trihydro to proceed with preparing a new SWPPP for closure as an out-of-scope item under the current Task Order, using a portion of the unspent project budget. Preparation of the SWPP is currently under way.

Additional Information

The new Chapter 4 (Construction & Demolition (CD) Landfills) and Chapter 6 (Transfer, Treatment, and Storage Facilities) regulations will go before the Environmental Quality Council (EQC) on February 19, 2019 for approval. The regulations now include lifetime permits for CD landfills and transfer facilities. Comments and proposed revisions can be submitted until January 22, 2019. Comments can be submitted electronically at <http://shw.wyomingdeq.commentinput.com/>. The proposed rules,



Andy Frey, FCSWDD
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comments submitted, and analysis of comments will be posted on the Council's website at <https://eqc.wyo.gov/Public/Dockets.aspx> under Docket #18-5103.

Please let us know if you have any questions or need additional information. You can call me on my cell phone (307-851-4674), send me an email (jyoung@trihydro.com), or stop by our office at 388 Main Street, Suite C, in Lander.

Attachment:

- Change Order 5, Task Order 10-020 / Trihydro Project 09Y-009-002

END OF MEMORANDUM

Memorandum



Date: January 14, 2019

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

From: Matt Evans, PE

Subject: Progress Report – January, 2019

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

Capacity Audits

The capacity audit reports are completed and included with this Board package. At the December Board meeting, Burns & McDonnell discussed some of the topics covered in the reports.

Technical Engineering Assistance

Burns & McDonnell completed progress reports, invoicing and project management related to the overall administration of the project as part of this task. Also, as part of this task, Burns & McDonnell reviewed District operations with the Superintendent as part of our trip in December to the District.

Capital Improvement Plan Modeling

The 2018 capital improvement plan and budget review were completed and presented to the Board in June 2018. The 2019 plan and budget review will begin in the spring of 2019.

Leachate Management System Design, Bid Administration, and Construction Support

Construction of the underground storage tank project is complete and operational. A construction documentation report for the project has been prepared and is being reviewed by the Superintendent.

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 952-656-3629 or maevans@burnsmcd.com at your earliest convenience.

Fremont County Solid Waste Disposal District
Superintendent Report
January 15, 2019

Office/Staff/Board/Inter-Government

Office:

1. The calculated annual tonnages and cost per ton is as follows (calculated using revenues, expenses, and tonnages):
 - a. 2013 = \$139.96 & 31,472 total tons
 - b. 2014 = \$176.43 & 27,562 total tons
 - c. 2015 = \$99.44 & 31,890 total tons
 - d. 2016 = \$103.22 & 29,659 total tons
 - e. 2017 = \$102.26 & 33,483 total tons
 - f. 2018 = \$106.03 & 36,352 total tons

Staff:

1. January 2019 – 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 and the Sand Draw Landfill) has not had a single lost-time accident/incident → **3 years and 6 months**, and the Lander Area staff (i.e. Lander Landfill, Dubois Landfill, and the rural transfer stations) had one lost-time accident early on but has now made it **2 years and 11 months**!!

Board:

1. January 2019 – The following represents the previous list of ***Board Committees and Members***. We will reassign these positions at the February 2019 meeting.
 - a. Recycling Committee: Mark Moxley, Gary Weisz, Rick Klaproth, and Mike Morgan.
 - b. Health Benefit and Wage Committee: Gina Clingerman, Rick Klaproth, Gary Weisz, and Mike Adams.
 - c. Rate Committee: Gina Clingerman, Rob Dolcater, Gary Weisz, and Mike McDonald.
 - d. Budget Committee: Mark Moxley, Rob Dolcater, Gary Weisz, and Mike McDonald.
 - e. WRIR Solid Waste Negotiations Committee: Mike Morgan, Mark Moxley, Gary Weisz, and Steve Baumann.

Inter-Government:

1. Bureau of Land Management:
 - a. June – October 2018: We have been working with the BLM to review our old landfill sites near Hudson and near Atlantic City to clean the sites to their standards. All of the necessary work has been completed and we await a time to schedule an inspection with BLM staff.
 - i. December 2018: The BLM staff indicated that they would conduct an inspection in the spring.

2. State:

- a. October 2018 – **Shoshoni Grant Application** (see below under “Sites”).
- b. November 13, 2018: Chairman Moxley and I presented to the Legislative State Office (LSO) Tribal Relations Committee and the Wind River Inter-Tribal Council members present regarding the current state of **solid waste management on the Wind River Indian Reservation**.

3. County:

- a. January 2019 - A **guided tour** was offered at the start of the year to all the commissioners. So far three of the five have committed to a tour.

4. Municipalities:

- a. January 2019 – The Town of Shoshoni has submitted a request for a **fee waiver** or reduction for additional building demolition efforts.

Regulatory/Engineering/Legal/General Contractors

Regulatory

1. WDEQ – Solid and Hazardous Waste Division

- a. **Rules and Regulations Revisions** – The WDEQ-SHWD has been working on revising the Chapter 4 and 6 language. The District has reviewed the revisions, commented on them, and is working with the Wyoming Solid Waste and Recycling Organization (WSWRA) on minor modifications.
- b. **Shoshoni Landfill Closure Permit** – We received the final approval for our Closure Permit.
- c. **Dubois Transfer Station Permit, Landfill Permit, and MSW Landfill Permits** – We have the final approved Operating Permit.
- d. **Lander Landfill Permit** – We have the final approved Lifetime Operating Permit.
- e. **Sand Draw Landfill Permit** – We have the final approved Lifetime Operating Permit.
- f. **Shoshoni Landfill Closure - Administrative Order on Consent (AOC)** – The draft AOC has been reviewed with Craig McOmie from the WDEQ and will go in front of our attorney prior to submittal to the Board.

Engineering

1. Trihydro:

- a. **Geotechnical Testing**: Trihydro and our staff completed the geotechnical sampling on the Army National Guard lands near the Lander Landfill for determination on their suitability for the Lander Landfill Alternative Cover System (i.e. Evapo-Transpiration Closure Design).

2. Burns and McDonnell:

- a. **Capacity Audits**: Included with the January 2019 Board packets.

Legal: **No Updates**

General Contractors:

1. Patrick Construction, Inc.

- a. **The Southern Drainage Realignment Earthwork Project:** PCI completed the project on November 9, 2018. This project has turned out very nicely and will allow a transition of filling activities either through the winter or early 2019.
- b. **The Southeast Excavation Area Earthwork Project:** PCI completed the project on December 4, 2018.

2. Wind River Indian Reservation – Solid Waste:

- a. July 2018: The District submitted to the Wind River Inter-Tribal Council an updated solid waste agreement proposal with the modifications requested by their group.
- b. October 15, 2018: The District received a letter from the Wind River Inter-Tribal Council approving the proposed solid waste agreement with a requirement to add language that allows for modifications to the agreement with mutual agreement.
- c. November 1, 2018: The Board approved the modifications requested by the Wind River Inter-Tribal Council and the agreement. A letter was drafted acknowledging the change and approving the agreement.
- d. November 13, 2018: The administrative secretary from the Wind River Inter-Tribal Council notified us that they will require the agreement to have the language adjusted with their requested additional language prior to their signing instead of just the acknowledgement.
- e. December 2018: We received a **final approved and signed agreement** from both Tribes of the Inter-Tribal Council. This is a five-year agreement.

Sites/Operations/Equipment:

Sites:

1. December 2018: We had the **Lander Landfill aerial surveyed** to capture all of the underground storage tank work and earthwork projects changes. This will be used to generate current drawings and surfaces necessary for upcoming AUF surveys and permit drawings.
2. December 2018: We completed an AUF calculation for July through October and concluded the AUF was just over 1,100 pounds per cubic yard. This AUF is ideal and if continued will continue to add life to the site.

Operations:

1. Lander Landfill Groundwater Collection System Hauling:

- a. 10/29/2017 – 11/30/2017: realized savings = approximately **\$7,500**.
- b. 12/1/2017 – 12/31/2017: realized savings = approximately **\$9,000**.
- c. 1/1/2018 – 1/31/2018: realized savings = approximately **\$7,000**.
- d. 2/1/2018 – 2/28/2018: realized savings = approximately **\$7,000**.
- e. 3/1/2018 – 3/31/2018: realized savings = approximately **\$7,500**.
- f. 4/1/2018 – 4/30/2018: realized savings = approximately **\$7,500**.
- g. 5/1/2018 – 5/31/2018: realized savings = approximately **\$7,000**.
- h. 6/1/2018 – 6/30/2018: realized savings = approximately **\$6,000**.

- i. 7/1/2018 – 7/31/2018: realized savings = approximately **\$7,500**.
- j. 8/1/2018 – 8/31/2018: realized savings = approximately **\$7,000**.
- k. 9/1/2018 – 9/30/2018: realized savings = approximately **\$6,500**.
- l. 10/1/2018 – 10/31/2018: realized savings = approximately **\$6,200**.
- m. 11/1/2018 – 11/30/2018: realized savings = approximately **\$3,420**.
- n. 12/1/2018 – 12/31/2018: realized savings = approximately **\$6,100**.

Equipment:

- 1. January 2019 - The District's new **Western Star Truck** has been working out well and greatly accommodates our program. The **Riverton Baler** had the ejection cylinder replaced and is working wonderfully. We are working at rewriting bid specifications for **new roll-off containers** and hope to pursue bids later in January.

Miscellaneous/Upcoming Work & Events/Work in Progress:

Miscellaneous: **No Updates**

Upcoming Work & Events:

- 1. December 2018 & January 2019 – The annual **Christmas Tree Collection Program** is well underway with a plan to deliver the trees to Ocean Lake February 8, 2019. The work day for transferring the trees onto the ice and wiring the trees to concrete blocks is scheduled for February 9, 2019. We would love to see as many volunteers out at Ocean Lake on the 9th as possible to assist with the event.

Work in Progress:

- 1. August 2018 – Representative Lloyd Larsen reached out to us to get some assistance with the non-friable asbestos that has been encountered during the demolition process of the **Wyoming Life Resource Center**. We have been working with the contractors and the WDEQ-SHWD to receive authorization to receive the ACM and set up a standard operating procedure to accept the waste.
 - a. September 2018 – the volumes of friable and non-friable asbestos have far exceeded the predicted volumes at the WLRC. We have been evaluating the airspace consumption (i.e. surveying volume consumption and comparing against scale data) to better understand the financial impacts. After meeting with the Executive Committee to discuss the options, it has been established that the rate for these materials will be at \$200 per ton and the materials will be directed to the Sand Draw Landfill due to the required volume of soils necessary to cover the ACM at the end of each day. The State accepted the proposal and the ACM waste has been directed there since 9/11/2018. Subsequent meetings have taken place with Representative Lloyd Larson, the multiple contractors at the WLRC, and with various representatives of the WDEQ.

- b. October 2018 – The District commented on a proposed burial plan on the State lands adjacent to the landfill associated with the burial of asbestos containing materials, lead based paint, and contaminated soils without developing a groundwater monitoring system and benchmark readings. The project has run into multiple issues with large quantities of asbestos containing material waste, lead based paint waste, and contaminated soils waste that is driving up the cost of the project.
- c. October 24, 2018: Representative Lloyd Larson presented to the Board thanking the District and the WDEQ for assistance during the demolition work. He also asked the District to revisit the disposal fees.
- d. November 1, 2018: The Board approved a changed set of disposal fees for the project.
- e. November 15, 2018: The District awaits written correspondence from the WDEQ on handling and processing guidance necessary to direct the ACM to the Shoshoni Landfill.
- f. December 2018: The WDEQ approved the District's request and the WLRC ACM waste has been directed to the Shoshoni Landfill almost all month.
- g. January 2019: The WLRC ACM waste is still being directed to the Shoshoni Landfill. The process is working well overall.

Thank you,



Andrew Frey, P.E.

Superintendent of Operations

Fremont County Solid Waste Disposal District

2019

SOLID WASTE DISPOSAL DISTRICT BOARD

3 YEAR TERM

MEETS THE 3RD MONDAY OF EACH MONTH
WSS 18-11-102 (term limit 3 three-year terms)
BOARD APPOINTMENTS MADE IN JANUARY

BOARD MEMBERS	ADDRESS	DATE APPOINTED	DATE EXPIRES
Baumann, Steve 349-2900 baumann.bonnet@gmail.com	2140 Squaw Creek Road Lander, WY 82520	12/13/2011 12/2/2014 12/19/2017	12/31/2020
Townsend, Robert 332-0248 inthewind@wyoming.com	31 Three Forks Road Atlantic City, WY 82520	12/4/2018	12/31/2021
Lamb, Jennifer 349-4122	579 South 4th Street Lander, WY 82520	12/4/2018	12/31/2021
Adams, Michael 349-1223 mjadams2011@yahoo.com	530 South 5th Street Lander, WY 82520	12/27/2010 12/10/2013 12/6/2016	12/31/2019
Klaproth, Richard 857-5811/851-3567 ricknechoR@wyoming.com	12233 Highway 789 #64 Shoshoni, WY 82649	12/13/2011 12/2/2014 12/19/2017	12/31/2020
Dolcater, Rob 857-6652/851-0402 rdolcater@wyoming.com	27 Old Mule Drive Riverton, WY 82501	12/2/2014 12/19/2017	12/31/2020
Weisz, Gary 876-2615; 876-2615	Box 59 Shoshoni, WY 82649	12/18/2012 12/1/2015 12/4/2018	12/31/2021
Moxley, Mark 332-9068/349-0722 mmox@g.com	2875 Spriggs Drive Lander, WY 82520	12/10/2013 12/6/2016	12/31/2019
Clingerman, Gina 332-8432; 620-5404 blackclingerman@gmail.com	785 Scott Drive Lander, WY 82520	6/14/2016 12/6/2016	12/31/2019

Fremont County Solid Waste Disposal District
RESOLUTION NO. 01-2019 (Authorized Depositors)

I HEREBY CERTIFY that I am the duly elected and qualified Secretary/Treasurer of the Fremont County Solid Waste Disposal District (District) Board of Directors and the keeper of the records of said District and that the following is a true and correct copy of the resolution duly adopted at a regular meeting of the Board of Directors held in accordance with the By-Laws of said District and its office at Lander, Wyoming on the 21st day of January, 2019.

"Be it Resolved, that Central Bank and Trust, US Bank, Bank of Jackson Hole, WYO-STAR, and Edward Jones be, and it is hereby, designated an authorized depository of this District and that funds so deposited may be withdrawn upon a check, draft, note, order, or transfer of the Fremont County Solid Waste Disposal District."

"Be it Further Resolved, that all checks, drafts, notes, orders, or transfers drawn against said accounts be signed by two Authorized Account Signatures."

This resolution shall continue in force and said institution may consider the facts concerning the holders of said positions, respectively, and their signatures to be and continue as set forth in the certificate of the Secretary or Assistant Secretary, accompanying a copy of this resolution when delivered to said institution or in any similar subsequent certificate, until written notice to the contrary is duly served on said institution.

In Witness Whereof, I have hereunto affixed my name as District Secretary/Treasurer this 21st day of January, 2019.

Secretary/Treasurer

I, _____, a Director of said District, do hereby certify that the foregoing is a correct copy of a resolution adopted as above set forth.

To be signed by a director other than the Secretary/Treasurer

Fremont County Solid Waste Disposal District
RESOLUTION NO. 02-2019 (Authorized Account Signatures)

I HEREBY CERTIFY that I am the duly elected and qualified Secretary/Treasurer of the Fremont County Solid Waste Disposal District (District) and the keeper of the records of said District and that the following is a true and correct copy of the resolution duly adopted at a regular meeting of the Board of Directors held in accordance with the By-Laws of said District and its office at Lander, Wyoming on the 21st day of January, 2019.

"Be it Resolved, that Central Bank and Trust, US Bank, Bank of Jackson Hole, WY-STAR, and Edwards Jones be, and it is hereby, designated an authorized depository of this District and that funds so deposited may be withdrawn upon a check, draft, note, or order of the Fremont County Solid Waste Disposal District."

"Be it Further Resolved, that all checks, drafts, notes, or orders drawn against said account be signed by any two (2) of the following with a minimum of one (1) Board Director signature:"

NAMES:

Chairman

Vice-Chairman

Secretary/Treasurer

Board Director

Board Director

Board Director

Board Director

Board Director

Board Director

Superintendent

Accounting Manager

Bookkeeper

whose signatures shall be duly certified to said Bank, and that no checks, drafts, notes, or orders drawn against said Bank shall be valid unless so signed.

"Be it Further Resolved, that said Bank is hereby authorized and directed to honor and pay any checks, drafts, notes, or orders so drawn, whether such checks, draft, notes, or orders be payable to the order of any such person signing and/or countersigning said checks, drafts, notes, or orders or any of such persons in their individual capacities or not, and whether such checks, drafts, notes, or orders are

deposited to the individual credit of the person so signing and/or countersigning said checks, drafts, notes, or orders, or to the individual credit of any of the other offices or not. This resolution shall continue in force and said Bank may consider the facts concerning the holders of said offices, respectively, and their signatures to be and continue as set forth in the certificate of the Secretary or Assistant Secretary, accompanying a copy of this resolution when delivered to said Bank or in any similar subsequent certificate, until written notice to the contrary is duly served on said Bank.

In Witness Whereof, I have hereunto affixed my name as District Secretary/Treasurer this day 21st day of January, 2019.

Secretary/Treasurer

I, _____, a Director of said District, do hereby certify that the foregoing is a correct copy of a resolution adopted as above set forth.

To be signed by a Director other than the Secretary/Treasurer

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont



SS.

I, Gary Weisz
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2021

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)

X

(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont



SS.

Mark Moxley

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2019

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)  _____
(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____.

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

}

ss.

Rick Klaproth

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2020

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

X _____
(Facsimile of Signature, if used)

X _____
(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____.

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont



SS.

Rob Dolcater

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2020

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)

X

(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____.

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

} ss.

Gina Clingerman

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2019

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)  _____
(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

} SS.

Steve Baumann

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2020

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used) **X** _____
(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____.

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

}

ss.

Michael Adams

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2019

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

X

(Facsimile of Signature, if used)

X

(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

} SS.

Camille Woody

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Accounting Manager of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire n/a.

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)

(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20_____.

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont



SS.

Andrew Frey

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Superintendent of Operations of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire n/a.

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)

(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20_____.

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

} ss.

Linda Kummer

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Bookkeeper of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire n/a

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)

(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____.

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

} SS.

Robert Townsend

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2021

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)  _____
(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____

(notary seal)

Notary Public

My commission expires: _____

Signature Certification

(Pursuant to W.S. 16-2-102)

State of Wyoming

County of Fremont

} ss.

Jennifer Lamb

I, _____
(Name)

being first duly sworn, upon my oath affirm:

● That I am the duly ☐ elected or ☒ appointed, qualified and acting
Board Member _____ of Fremont County Solid Waste Disposal District
(Office Held) (Agency)

and that my present term of office will expire 12/31/2021

● That the signature affixed below is my own manually inscribed signature in the form and manner used to execute all official documents in my official capacity.

(Facsimile of Signature, if used)

X _____
(Manual Signature)

Subscribed and sworn to before me this _____ day of _____, A.D. 20____.

(notary seal)

Notary Public

My commission expires: _____



**TRIHYDRO CORPORATION – FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT
NON-EXCLUSIVE SERVICE AGREEMENT
TASK CHANGE ORDER**

Task Order No.: 10-020

Date: January 11, 2019

Job No.: 09Y-009-002

Location of Project: Fremont County, Wyoming

Contract: Non-Exclusive Service Agreement between Trihydro Corporation and Fremont County Solid Waste Disposal District, dated July 22, 2010.

Original Specification: Trihydro shall provide design and permitting services for closure permit application, including a water-balance final cover, for the Lander Landfill. Work to be performed in accordance with Task 2 – MSW Landfill Design and Delayed Closure Permit, of the Statement of Qualifications and Proposal – Lander Landfill Design and Permitting Services, dated December 2, 2014. A revised tentative project schedule is provided as Attachment A of Task Order 10-020.

Change Order No. 5: Extend the completion date to June 29, 2019.

Estimated Additional Cost: None

Facsimile/email signatures will be accepted to execute this Task Change Order.

**FREMONT COUNTY SOLID WASTE
DISPOSAL DISTRICT**

BY: _____

TITLE: _____

TRIHYDRO CORPORATION

BY:  _____
Jack Bedessem, P.E.

TITLE: President/CEO of Risk Management



TOWN OF SHOSHONI
P.O. BOX 267
SHOSHONI, WY 82649
307- 876-2515



MAYOR
Joel Highsmith

TOWN COUNCIL

Beau Weaver
Bob Zent
Amber Dye
Kathy Blair

January 11, 2019

FCSWD
PO Box 1400
Lander, WY. 82520

Dear FCSW Board,

The Town of Shoshoni is respectfully requesting a fee waiver or reduction on demolishing two (2) town owned buildings. It was in the plans to demolish these buildings the same time we did the Main St. clean up, which we greatly appreciate how the whole county came to our aid. These buildings are the last of the rundown buildings the town owns and they have been a safety and health hazard for our community. They are unsafe buildings where animals, children, and transients draw to.

We thank you for considering our request in this matter.

Sincerely,
Teresa Taylor
Clerk/Treasurer
Town of Shoshoni

Memorandum

To: Fremont County Solid Waste Disposal District Board of Directors

From: Andy Frey

Date: January 3, 2019

Subject: Summary of Proposed Changes – FCSWDD Rules and Regulations

The following defines the proposed changes to the District's Rules and Regulations. In the attached edited document, you will note the highlighted text. The portions that are highlighted represent the modified language, some that has been struck-through representing a proposed deleted portion of text and the subsequent text intended as the replacement.

1. Cover Page – the current date was selected for the revision date. Once an updated document is approved by the Board, the revision date will be updated.
2. Title – the date has been modified to represent the date of the modifications. Any approved alternations through formal action by the Board will have their approval date shown in the title (the same as the Cover Page).
3. Chapter 1, Section 5.u. – a definition for “Low-Hazard Low-Volume Transfer Stations” was added to allow for any distinguishing differences in operations between the Low-Hazard Low-Volume Transfer Stations and our “regular” Transfer Stations. This definition provides a list of authorized customer types and provides clarification that the sites are not intended for commercial haulers, commercial businesses, governmental agencies, or not-for-profit agencies.
4. Chapter II, Section 3.b. – the word “pounds” was replaced with “waste” for better grammar.
5. Chapter II, Section 3.c. – the rate structure associated with events when the scales are down was reviewed with the Crew Chiefs, Lead Operators, and some Scale Attendants to better understand what the average loads in these categories are and the associated disposal fees. The rates have been adjusted to represent what was determined as the average.
6. Chapter II, Section 3.g. – these rates were adjusted to be consistent with the rate schedule associated with the rates charged when the scales are down. This was completed to ensure consistent rates at our sites.
7. Chapter II, Section 3.h. – the baseline \$0.04 language was removed to allow the rates defined below to allow the specific Specialty Waste Fees to be clear and allow the rates that had been waived to be included in the Specialty Waste column.

8. Chapter II, Section 3.h.2. & 3. – the rates were adjusted to include the typical \$0.04 per pound that previously was referenced in the title.
9. Chapter II, Section 3.h.5. – this was adjusted to represent the disposal rates that were reviewed and adjusted in late 2018 during the acceptance discussions related to the Wyoming Life Resource Center. This rate was based on survey data, equipment commitments, staff commitments, and airspace utilization.
10. Chapter II, Section 6.c. – this change is intended to allow an approved consideration beyond 30-days, but only if approved in that manner in writing.
11. Chapter III, Section 1.f. – this language has been deleted to ensure the Rules and Regulations are consistent with the actual operations. Waste is received/accepted at times that is not bagged (i.e. twine string, old fence, etc.).

**RULES AND REGULATIONS
GOVERNING SOLID WASTE COLLECTION AND DISPOSAL IN
FREMONT COUNTY, WYOMING**

Adopted by:
Fremont County Solid Waste Disposal District Board
January 11, 1982

Amended - March 10, 1986

Amended - December 10, 1990

Amended - July 12, 1993

Fully Revised and Adopted - October 12, 1998

Amended - November 9, 2003

Amended - October 11, 2004

Amended - April 10, 2006

Amended - June 12, 2006

Amended - September 11, 2006

Amended - October 13, 2008

Amended - January 12, 2009

Amended - July 13, 2009

Amended - February 14, 2011

Amended - May 14, 2012

Amended – June 17, 2013

Amended – June 16, 2014

Amended – September 15, 2014

Amended – November 16, 2015

Amended – January 3, 2019

**RULES AND REGULATIONS
GOVERNING SOLID WASTE DISPOSAL IN
FREMONT COUNTY, WYOMING
REVISED NOVEMBER 16, 2015
REVISED JANUARY 2018**

**CHAPTER I
GENERAL PROVISIONS**

Section 1. Authority. The authority to adopt rules and regulations governing solid waste disposal by the Fremont County Solid Waste Disposal District Board is granted by Wyoming Statute §18-11-102 (2001). These rules and regulations are adopted pursuant to the Wyoming Administrative Procedure Act, Wyoming Statute §16-3-101 et. seq. (2001).

Section 2. Title. These rules and regulations shall be cited as "Rules and Regulations Governing Solid Waste Disposal in Fremont County, Wyoming."

Section 3. Purpose. The purpose of these rules and regulations is to protect the health and general welfare of Fremont County residents through the promulgation of rules and regulations to assure that solid waste is transported and disposed of in a safe and healthy manner.

Section 4. Organization. Fremont County Solid Waste Disposal District is a duly organized solid waste disposal district created by resolution of the Board of County Commissioners of Fremont County, Wyoming, on October 3, 1979, pursuant to Wyoming Statute §18-11-101 (1977).

Section 5. Definitions.

- a. "Asbestos" is a naturally occurring fibrous mineral defined by two categories:
 1. "Friable Asbestos" containing materials, is any material that contains more than one percent asbestos by weight or area, depending on whether it is a bulk or sheet material and can be crumbled, pulverized, or reduced to powder by the pressure of an ordinary human hand.
 2. "Non-Friable Asbestos" containing materials, is any material that contains one or more percent asbestos, but cannot be pulverized under hand pressure.
- b. "Board" means the Board of Directors of the Fremont County Solid Waste Disposal District.
- c. "Commercial Operator" means a person or firm engaged in the activity of collecting, transporting, and disposing of solid waste from residences, commercial firms or industrial plants within the District, for a fee or compensation of any type or kind.
- d. "Construction/Demolition Waste" shall mean any and all material generated from,

construction, reconstruction, remodeling or demolition of a structure, and shall include, but is not limited to stone, wood, concrete, asphaltic concrete, cinder blocks, brick, sheetrock, plastic, plaster, metal, shingles, electrical materials, and plumbing materials.

- e. "Contract Manager" shall mean any person, persons, firm, or entity that has entered into a contract with the District to manage operations of any District site, in accordance with the District Rules and Regulations.
- f. "District" means the Fremont County Solid Waste Disposal District.
- g. "Electronic Waste" (e-waste) shall mean items and components of items containing Cathode Ray Tubes, which includes but is not limited to computer monitors and televisions. It shall also include, but is not limited to, computers, key boards, mice, networking equipment, exterior modems, exterior CD/FDD, tape drives, mainframes, cell phones, printers, stereo equipment, VCR/DVD players, calculators, adding machines, laptop computers, facsimile machines, copy machines, UPS backups, any component part of the above, and any other such units or components which contain materials banned by the DEQ or EPA from being placed in the landfills or as may be designated by the District superintendent from time to time.
- h. "Flow Control" means the requirement that all solid waste generated within the District be delivered to a District facility.
- i. "Hazardous Waste" means those wastes that are defined as hazardous wastes in Wyoming Department of Environmental Quality Hazardous Waste and Regulations, Chapter 2, Identification and Listing of Hazardous Waste.
- j. "Household Waste" means solid waste resulting from or incidental to residential activities, and includes waste produced from domestic use of a household as a residence only. Household Waste is also known as "Municipal Solid Waste" or MSW.
- k. "Landfill" means a solid waste management facility for the land burial of solid wastes, utilizing an engineered method of controls to avoid creating a hazard to public health, the environment, plants, or animals.
- l. "Municipal Operator" means an incorporated city or town engaged in the activity of collecting, transporting, and disposal of solid waste from residences, commercial firms or industrial plants within the District.
- m. "Municipal Solid Waste," commonly referred to as "MSW," means solid waste resulting from or incidental to residential activities, and includes waste produced from domestic use of a household as a residence only. Municipal Solid Waste is also known as "Household Waste."

- n. "Person" means any individual, institution, public or private corporation, municipality, partnership, firm or other entity.
- o. "Solid Waste" means discarded solid materials, including materials resulting from industrial, commercial and agricultural operations, and from community activities, but, unless disposed of at a landfill, does not include:
 - 1. Solids of dissolved material in domestic sewage or other significant pollutants in water resources, such as silt, dissolved, or suspended solids in industrial waste water effluents, dissolved materials in irrigation return flows or other common water pollutants;
 - 2. Solids, sludges or dissolved constituents which are collected or separated in process units for recycling, recovery or reuse including the recovery of energy within a continuous or batch manufacturing or refining process; or
 - 3. Agricultural materials which are recycled in the production of agricultural commodities.
- p. "Solid Waste Disposal Site" means any area designated by the Board for the acceptance and/or disposal of solid waste. Solid Waste Disposal Site includes landfills, transfer stations, bale stations, and recycling facilities.
- q. "Special Waste" means those wastes that require special handling as described in Chapter 8 of the DEQ Solid Waste Rules and Regulations.
- r. "Specialty Waste" means those wastes set forth above in Section 5, sub-section o, and which are accepted by the District, and which are listed below:
 - 1. Bio/Medical Solid Waste,
 - a. Bio/Medical Solid Waste is accepted at the following locations (following disposal guidance): Lander Landfill, Sand Draw Landfill, and the Dubois Landfill.
 - 2. Confidential Records,
 - a. Confidential Records disposal is accepted at the following locations (following disposal guidance): Lander Landfill, Sand Draw Landfill, and Dubois Landfill.
 - 3. Sump Mud,
 - a. Sump Mud disposal is accepted at the following locations (following disposal guidance): Lander Landfill, Sand Draw Landfill, and Dubois Landfill.

4. Electronic Waste.
 - a. Electronic Waste disposal is accepted at the following locations (following disposal guidance): Lander Landfill, Sand Draw Landfill, Dubois Landfill, and the Riverton Bale Station.
5. Asbestos
 - a. Only Non-Friable Asbestos materials can be accepted by the District (not including Friable Asbestos), following a case-by-case approval process for the materials. If approved, the generator must provide a minimum 24-hrs advanced notice, the materials will need to be wetted, covered, secured to the transport vehicle, and totally encapsulated in plastic. The generator will need to complete a "Hazardous Waste Disposal" form, which can be acquired from the District scalehouse attendants. The generator will be required to unload all of the materials, without District assistance, into a designated location.
 - b. Non-Friable Asbestos is accepted, upon approval, at the Lander Landfill, Sand Draw Landfill, Dubois Landfill, and the Shoshoni Landfill.
- s. "Superintendent of Operations" or "Superintendent" means the person hired as the administrative head over the daily operations of all District sites, District equipment, and personnel employed by the Fremont County Solid Waste Disposal District.
- t. "Transfer Station" means any solid waste facility managed by the District that accepts MSW and C&D materials for transport to a final disposal facility, including loading docks, parking areas, storage areas, and ancillary features.
- u. "Low-Hazard Low-Volume Transfer Station" means any solid waste facility managed by the District, designated for residential use, that accepts small quantities of MSW and C&D materials for transport to a final disposal facility. These sites are not intended for use by commercial haulers, commercial businesses, governmental agencies, or not-for-profit agencies.
- v. "Volunteer" shall mean any person or persons who have been authorized by the Board to operate a District site, in accordance with the District Rules and Regulations, without compensation of any type. All volunteers must meet District requirements prior to operating a District site.

CHAPTER II **OPERATIONS**

Section 1. Solid Waste Disposal Sites. The District shall maintain and operate, through its own staff or through contract managers, or volunteers, one or more solid waste disposal sites within the District, for the use and benefit of residents of the District. The number of sites, locations of sites, and services provided at the sites shall be determined by the Board, and may be adjusted.

Section 2. Access to Disposal Sites. Any resident of the District may dispose of solid waste at the solid waste disposal sites provided, subject to direction of the District staff as to where such wastes shall be disposed of at any site and subject to such other requirements as set forth in these rules or as authorized by the Board. Access to District sites and the right to dispose of waste is a privilege and not a right. No person shall dispose of solid waste at a District solid waste disposal site at any time except the times that the same are open for operation. The Board shall have the authority to set times when the transfer stations and landfills are open. No waste shall be accepted from out-of-county locations without the formal approval of the superintendent. The Board has the right to suspend disposal privileges.

No person shall use any cellular or satellite telephone while they are on any District landfill, transfer site, or recycling site. Use of cellular or satellite telephones shall include speaking on the phone, texting on the phone, or using internet. This prohibition shall not include District personnel who are authorized to conduct such telephone use.

Section 3. Fees

- a. **Returned Checks & Delinquent Payments Fees:** The District will impose a \$30.00 fee on all returned checks. The District will impose all collection charges (i.e. attorney fees and collection service fees) to accounts not paid in full within 90-days, in addition to the full account balance.
- b. **Lander Landfill & Transfer Station, Riverton Bale Station, Dubois Landfill & Transfer Station, and Sand Draw Landfill:** The fee for disposing of municipal solid waste and construction and demolition solid waste at the Lander Landfill, Riverton Bale Station, Dubois Landfill, Sand Draw Landfill and other facilities where weight scales are available shall be \$0.04 per pound as read by the scale.

In the case of cars and pickups, there shall be a minimum fee of \$5.00 up to 200 pounds and an additional \$0.04 per pound for all **pounds waste** in excess of 200 pounds.

c. **Rate Structure when the scales are down at the Lander Landfill & Bale Station, Riverton Bale Station, Dubois Landfill & Transfer Station, and Sand Draw Landfill, or any other facility where weight scales are available, the following fees shall be charged:**

	<u>Fee</u>	
a. Up to two bags of household waste	\$5.00	
b. Delivery by car or pickup (beyond two bags of waste)	\$10.00	
c. Delivery by single or tandem axle trailer	\$35.00	\$60.00
1. Triple axle trailer	\$50.00	\$100.00
d. Delivery by Commercial Compaction Truck	\$250.00	\$550.00
e. Deliveries by Roll-Off or Dump Truck	\$5.00/ey	\$15.00/cy
f. Delivery by Semi Truck	\$5.00/ey	\$15.00/cy

d. **Transfer Stations:** The fee for disposing of municipal solid waste and construction and demolition solid waste in District owned and staffed transfer stations shall be as follows:

	<u>Fee</u>
a. Up to two bags of household waste	\$5.00
b. Delivery by car or pickup (beyond two bags of waste)	\$10.00
c. Delivery by trailer	\$35.00
d. White goods (if/when allowed)	\$5.00/each
e. Other metal items	\$5.00/cy
f. No Commercial Operator loads allowed	
g. No loads larger than 4-cubic yards allowed.	

For items b. and c. above there shall be a recycling credit for waste recycled. In order to receive the recycling credit the recyclable material must be separated into appropriate bins as provided by the District and there must be a minimum of 2 bags of recyclable material. The credit shall be as follows:

- b. \$3.00
- c. \$8.00

- e. **Transfer Stations:** The fee for disposing of municipal solid waste and construction and demolition solid waste in District owned and community based volunteer staffed transfer stations with a recycling opportunity and participation (participation consists of delivery of 2 or more bags of recycling material) shall be as follows:

	<u>Fee with Participation</u>	<u>Fee with No Participation</u>
a. Up to two bags of household waste	\$5.00	\$5.00
b. Delivery by car or pickup (beyond two bags of waste)	\$7.00	\$10.00
c. Delivery by trailer	\$27.00	\$35.00
d. White goods (if/when allowed)	\$5.00/each	\$5.00/each
e. Other metal items	\$5.00/cy	\$5.00/cy
f. No Commercial Operator loads allowed		
g. No loads larger then 4-cubic yards allowed.		

- f. **Transfer Stations:** The fee for disposing of municipal solid waste and construction and demolition solid waste in District owned and community-based volunteer staffed transfer stations without a recycling opportunity and participation shall be as follows:

	<u>Fee</u>
a. Up to two bags of household waste	\$5.00
b. Delivery by car or pickup (beyond two bags of waste)	\$10.00
c. Delivery by trailer	\$35.00
d. White goods (if/when allowed)	\$5.00/each
e. Other metal items	\$5.00/cy
f. No Commercial Operator loads allowed	
g. No loads larger then 4-cubic yards allowed.	

- g. **Shoshoni Landfill (C&D):** In addition to the above fees for transfer stations, the following additional fees shall be applicable at the Shoshoni Landfill:

	<u>Fee</u>	
a. Single or Tandem Axle Trailer	\$35.00	\$60.00
b. Triple Axle Trailer	\$50.00	\$100.00
c. Deliveries by Dump Truck or Roll-Off Truck	\$5.00/cy	\$15.00/cy
d. Deliveries by Semi Truck	\$5.00/cy	\$15.00/cy

h. **Specialty Waste:** Fees in addition to the \$0.04 per pound shall be paid by customers for the disposal of specialty wastes.

a. **Specialty Waste Fees.**

1. **Bio/Medical Waste.** All Bio/Medical Waste must be bagged in Bio/Medical Waste bags bought from the District. The Bio/Medical Waste Bag shall cost \$5.00. There is no additional fee beyond \$0.04 per pound, except for the Bio-Medical Waste bag cost.
2. **Confidential Records.** The fee for confidential records shall be an additional ~~\$0.24~~ \$0.25 per pound.
3. **Sump Mud.** The fee for Sump Mud disposal at a District landfill is an additional ~~\$0.04~~ \$0.08 per pound.
4. **Electronic Waste (E-waste).** E-waste shall not be placed in any District landfill or transfer station in any manner. E-waste shall be placed in specially designated containers. There is no fee for disposal of E-waste.
5. **Non-Friable Asbestos.** The District will only accept Non-Friable Asbestos (the District sites are not permitted for the acceptance of Friable Asbestos). ~~There is no additional fee beyond the standard waste disposal rate charged across the District scales.~~ The fee for disposal of non-friable asbestos is \$128 per ton.

Section 4. Charge Accounts: Fremont County businesses, commercial/municipal operators, governmental entities, and non-profit entities that desire to maintain an active charge account with the District must meet and maintain the following criteria:

- a. A formal Fremont County Solid Waste Disposal District Charge Account Request Application must be submitted along with a non-refundable \$25.00 processing fee (this fee is not required by governmental agencies), and gain approval by the Superintendent of Operations.
- b. The account balance must be paid in full monthly.
- c. Any accounts not paid in full monthly, and allowed to reach a 90-day period without full payment, will be terminated and the account will be imposed collection charges (i.e. attorney fees and collection service fee's) in addition to the account balance.
- d. Any account holder with an account terminated due to non-payment will not be allowed to create another charge account with the District.
- e. Any account holder with an account terminated due to non-payment will have their disposal privileges suspended at all Fremont County Solid Waste Disposal District sites, until the account balance is paid in full.

Section 5. One Time DEQ Authorizations. Due to emergencies, accidents, and other occurrences, the Department of Environmental Quality (DEQ) occasionally issues one-time authorizations to dispose of wastes that are not normally allowed to be disposed of at disposal sites operated by the District. The Board reserves the right to charge a fee for these one-time DEQ authorizations. The fee shall be assessed by the Board.

Section 6. Non-Resident Use of Disposal Sites. Non-residents of the District may not use disposal sites of the District, except upon prior issuance of formal written permission from the District for such use and prior payment of a fee for such use.

- a. Commercial operators may not dispose of solid waste collected from outside the District, unless advance formal written permission has been provided, defining appropriate disposal fees and locations. In such cases, the requests shall state the amount of solid waste to be allowed from outside the District.
- b. The fee for use of a District disposal site by non-residents of the District shall be twice the established District disposal rates.
- c. The District shall not be obligated to allow use of District disposal sites by non-residents; the allowance of use, or the issuance of a permit therefor, shall not be considered as grant for continued use or renewal of such permit, and such use may be terminated by the Board at any time. No formal permission for use of disposal sites by a non-resident shall be for more than thirty (30) days unless provided for in writing, and each such permit shall state the user accepts the permit with the understanding that there is no right of renewal and that the District reserves the right to discontinue such use at any time.
- d. No disposal of any kind shall be received at any District disposal sites, from out-of-state sources, or from other sources which might subject the District to provisions of the Federal Interstate Commerce Laws.

Section 7. Disposal Permission Revocation. Any permission for disposal of solid waste issued by the Board to any person may be revoked at any time.

Section 8. Transportation of Solid Waste to Solid Waste Disposal Site.

- a. Solid waste transported to any solid waste disposal site within the District, whether a landfill, transfer station, baling station, or recycling facility, must be securely covered. Securely covered is defined as a load that is securely covered and fastened to the transport vehicle in such a manner that the waste shall not, and cannot, be strewn upon the streets, roads and highways within Fremont County. Unsecured loads, including

bagged waste, must be secured to the transport vehicle with a separate lid, tarp, or other means ensuring materials cannot blow or travel out of the car, truck, trailer, or any other means of transport.

- b. Any person who transports waste to a solid waste disposal site in violation of this Section shall have imposed upon them the following:
 - 1. A \$8.00 fee will be applied.

Section 9. Demolition Permits – Demolition Projects Larger than 100 Cubic Yards

For any demolition project larger than 100 cubic yards, the owner or contractor must complete a Fremont County Solid Waste Disposal District – Construction/Demolition Permit Application request, and receive approval from the Superintendent of Operations.

- a. Any Commercial/Municipal Operator, person, firm, corporation, or governmental entity may apply for a permit, which application shall set forth the following:
 - 1. Name and Address of Applicant;
 - 2. Location of structure that is being constructed or demolished and size of structure in square footage;
 - 3. Type of trucks and capacity of trucks to be used in hauling the construction and demolition waste;
 - 4. Number of truckloads estimated to be used to dispose of construction and demolition waste and estimated yardage of construction and demolition waste to be disposed;
 - 5. Estimated amount of time to accomplish the disposal of the construction and demolition waste and date of completion;
 - 6. A written statement that the applicant will comply with all rules and regulations of the District pertaining to the disposal of solid waste, and applicant will promptly pay the District for any damage done to District property by its employees or activities;
 - 7. Confirmation and proof of completion of a State of Wyoming Asbestos Abatement.
- b. All applicants shall pay a \$50.00 processing fee with their completed application, which is non-refundable, even if application is later withdrawn by applicant or the permit is denied.
- c. The Superintendent shall review each application and shall issue a Demolition Disposal Permit using the following guidelines in his decision-making process:
 - 1. There is enough space available at a District Landfill to hold the amount of construction and demolition waste proposed to be disposed of in the District.

2. The applicant has the means through manpower and trucking capacity to accomplish the disposal of the construction and demolition waste in a reasonable amount of time and in an efficient manner that fits in with District Operations.
- d. The Superintendent may place conditions upon the permit other than the fee amount including, but not limited to:
 1. Time period of disposal of construction and demolition waste;
 2. Location of disposal of construction and demolition waste.

Section 10. Disposal of Solid Waste Within the District (Flow Control).

- a. Purpose: The purpose of Flow Control is to protect the health, safety and general well-being of the citizens of the District and Fremont County, enhance and maintain the quality of the environment, conserve natural resources and to prevent water and air pollution by providing for a comprehensive, rational and effective means or regulating the disposal of Solid Waste in the Fremont County Solid Waste Disposal District.
- b. Geographic Area, Facilities and Solid Waste Disposal: The geographic area covered by this flow control regulation shall be all of the geographic area of the District, with the exception of the Wind River Indian Reservation. Provided however, that this regulation may extend to the Wind River Indian Reservation by contract with the District.
- c. Solid Waste Disposal: All solid waste, as defined in these regulations that is generated within the District, except as provided above shall be delivered to a District transfer station or District landfill. This requirement shall not apply to solid waste generated within the District that is not or cannot be accepted by the District, and such waste shall be disposed of in accordance with federal and state laws. This requirement also does not apply to recyclable solid waste if the collector accumulates and then delivers the recyclables out of the District for recycling.
- d. Applicable Waste Subject to Flow Control: All solid waste collectors and other persons shall deliver all household solid waste, commercial waste, municipal solid waste, specialty waste, and construction and demolition debris generated within the District, except as provided for in section 10.3 above to a District Landfill or to a District Transfer Station, for disposal.
- e. Penalty: Any person, firm or entity that fails to deliver solid waste generated by them or collected by them to a District site as provided herein, shall be assessed a fee of \$250.00 for the first violation, \$500.00 for the second violation and \$750.00 for subsequent violations. In additions to the fees imposed herein, the District shall have the ability to suspend disposal privileges of the violator after the second violation. With regards to commercial haulers, the failure to deliver identified waste to a

designated facility within 3-days of collection shall be presumptive evidence that the waste was illegally dumped or disposed of at a location other than a designated facility.

CHAPTER III

RESTRICTIONS

Section 1. Restrictions The disposal of all solid waste at District Solid Waste Disposal Sites shall be subject to the following restrictions:

- a. No solid wastes or other wastes shall be disposed of within the District except as provided for in these rules and according to the rules and regulations of the Wyoming Department of Environmental Quality.
- b. Only solid wastes may be disposed of at the District Solid Waste Disposal Sites. No liquid wastes or hazardous wastes may be disposed of at the District Solid Waste Disposal Sites.
- c. No person shall separate, collect, carry off or otherwise remove anything whatsoever from the District Solid Waste Disposal Sites without the permission of the District Superintendent.
- d. It shall be unlawful for any unauthorized person to set a fire within a District Solid Waste Disposal Site.
- e. All solid waste must be placed within containers provided at transfer stations. No solid waste may be left outside of containers.
- f. ~~No material or waste of any nature except for bagged household waste or construction and demolition debris shall be placed in transfer containers at the transfer stations located at Shoshoni, Jeffrey City, Pavillion, Crowheart, Missouri Valley, Atlantic City, Lysite, 17 Mile, Ft. Washakie, and Ethete.~~
- g. All specialty waste fees must be paid and the proper paperwork filled out, prior to entering an active site.
- h. Failure to pay fees for specialty waste, failure to follow proper disposal guidance, or failure to apply for and pay for special permits can result in a fine of \$750.00 plus the cost of the load. Failure to comply may result in the company or individual to losing their right to access the District sites.
- i. Failure to dispose of Bio/Medical Waste in official Bio/Medical Waste Bags bought from the District, or failure to follow disposal procedures, shall subject the individual and/or company to a \$750.00 fine and may result in the company or individual to losing their right to access the District sites.



FREMONT COUNTY SOLID WASTE DISPOSAL DISTRICT

Member of Wyoming Solid Waste and Recycling Association (WSWRA)

P.O. Box 1400
Lander, WY 82520
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trashmatters.org

December 19, 2018

Fremont County Solid Waste Disposal District
Board of Directors
PO Box 1400
52 Beebee Road
Lander, WY 82520

Re: Rural Transfer Station Analysis

Board,

Over the past seven years the Fremont County Solid Waste Disposal District (District) has been working to review our operations and identify inefficiencies and/or areas of needed improvement. One area that has been noted as worth another review is the operation of our rural transfer stations. The following report reviews the current operational model, the associated financials, and possible modifications for consideration.

Currently, the District operates six rural transfer stations within the District and contracts for the operations of the rural transfer stations on the Wind River Indian Reservation. The rural transfer stations operated by the District are as follows:

- | | | |
|-----------------|-------------------|-------------|
| - Atlantic City | - Jeffrey City | - Lysite |
| - Shoshoni | - Missouri Valley | - Pavillion |

In 2012, the District modified the operational model that the rural sites located off the Wind River Indian reservation were operating under, changing the sites from an "honor system" without limitations on hours or waste acceptance to a model where the sites were fenced, staffed and open to the public one day per week, fees enforced, and waste acceptance adjusted to accommodate only residential customers. This operational change reduced the annual losses experienced at the sites by over \$100,000. Between 2012 and 2015, the Hudson Transfer Station was also operated by the District. This site was closed 2015 when the Board adopted a 20-mile acceptable travel distance threshold guideline used in assessing site locations in the District.

The current operational model includes having the sites open one day per week through the warm weather season and having the two least frequently used sites (Atlantic City and Jeffrey City) open only two times per month through the winter season. The non-winter season schedule is as follows:

- Shoshoni	Monday	2:00pm-6:30pm
- Jeffrey City	Tuesday	2:00pm-6:30pm
- Lysite	On Call → Volunteer Operation	
- Missouri Valley	Friday	2:00pm-6:30pm
- Pavillion	Saturday	10:00am-3:00pm
- Atlantic City	Sunday	11:00am-4:00pm

Although the current operational model has reduced the annual losses, the site utilization has naturally adjusted down from 924 customers (all rural sites located off the Wind River Indian Reservation) in 2013, down to 548 customers (all rural sites located off the Wind River Indian Reservation) in 2018. This reduction in the annual number of customers has included with it a reduction of annual revenues down from \$38,105 in 2013, down to \$19,876 in 2018. The calculated annual losses for 2018 are \$140,874. Applying the annual loss back to the annual number of customers shows an annual subsidy provided to every annual customer at approximately \$257, creating inequity in the treatment of rural customers in comparison to customers of our non-rural transfer stations.

Understanding that total closure of the rural transfer stations may not be an acceptable move both politically or publicly at this time, we have been working to identify alternative operational models that would reduce the annual losses. Three alternative operational models are identified below:

- Rural Transfer Station Operational Schedule Reduction
- Rural Transfer Station Fee Increase
- Removal of Recycling Credit and/or Opportunity at Rural Transfer Stations

Rural Transfer Station Operational Schedule Reduction

One alternative operational schedule reduction would include altering the site availability from multiple site openings during the work week, to having all but one site open during the weekends (on Saturday). In order to accommodate this, the sites would go from being available one day per week – four to four and a half hours, down to two days per month at three hours with the exception of the Jeffrey City site. The site usage for the Jeffrey City transfer station justifies only one day per month. This would allow the sites to be available at a more appropriate level given the history of use, as well as lower the actual operating costs by allowing the Transfer Station Attendant to be utilized in other District operations. This proposal would include the following site schedule:

- Missouri Valley	1 st and 3 rd Saturday of each month	9:00am-12:00pm
- Shoshoni	1 st and 3 rd Saturday of each month	1:00pm-4:00pm
- Atlantic City	2 nd and 4 th Saturday of each month	10:00am-1:00pm
- Pavillion	2 nd and 4 th Saturday of each month	3:00pm-6:00pm
- Jeffrey City	1 st Friday of each month	10:00am-1:00pm
- Lysite	On Call → Volunteer Operation	

The estimated annual savings would be approximately \$70,000-\$80,000; however, the sites would still be estimated to lose approximately \$60,000-\$70,000 per year.

Rural Transfer Station Fee Increase

Another operational change for consideration would be adjusting the disposal fees at the rural sites to better capture a revenue to cover the expenses associated with staffing the site and transferring the waste down to a final disposal facility. The current disposal fees at the rural transfer stations (off the Wind River Indian Reservation) are as follows:

Transfer Stations: The fee for disposing of municipal solid waste and construction and demolition solid waste in District owned and community-based volunteer staffed transfer stations with a recycling opportunity and participation (participation consists of delivery of 2 or more bags of recycling material) shall be as follows:

	Fee with <u>Participation</u>	Fee with <u>No Participation</u>
a. Up to two bags of household waste	\$5.00	\$5.00
b. Delivery by car or pickup (beyond two bags of waste)	\$7.00	\$10.00
c. Delivery by trailer	\$27.00	\$35.00
d. White goods (if/when allowed)	\$5.00/each	\$5.00/each
e. Other metal items	\$5.00/cy	\$5.00/cy
f. No Commercial Operator loads allowed		
g. No loads larger than 4-cubic yards allowed.		

Transfer Stations: The fee for disposing of municipal solid waste and construction and demolition solid waste in District owned and community-based volunteer staffed transfer stations without a recycling opportunity and participation shall be as follows:

	<u>Fee</u>
a. Up to two bags of household waste	\$5.00
b. Delivery by car or pickup (beyond two bags of waste)	\$10.00
c. Delivery by trailer	\$35.00
d. White goods (if/when allowed)	\$5.00/each
e. Other metal items	\$5.00/cy
f. No Commercial Operator loads allowed	
g. No loads larger than 4-cubic yards allowed.	

Based on the 2018 site data, these rates would need to be adjusted approximately 7-times in order to have them capture the actual costs associated with the sites. Applying the 7-time increase would create the following disposal rates:

	Fee with <u>Participation</u>	Fee with <u>No Participation</u>
a. Up to two bags of household waste	\$35.00	\$35.00
b. Delivery by car or pickup (beyond two bags of waste)	\$49.00	\$70.00
c. Delivery by trailer	\$189.00	\$245.00
d. White goods (if/when allowed)	\$35.00/each	\$35.00/each
e. Other metal items	\$35.00/cy	\$35.00/cy

By adjusting the disposal fees in this nature, the annual losses would be reduced to almost nothing.

Removal of Recycling Credit and/or Opportunity at Rural Transfer Stations

The recycling credit and opportunity at the rural sites increases the operating cost both by increasing the cost to operate the sites (i.e. purchase and use of the recycling trailers, purchase and use of a pickup heavy enough to pull the trailer) and reduces the collected disposal fees due to the credit provided. In 2018, the recycling credit allowed for reduced the collected fees by \$2,462. This would be an alternative that would greatly accompany adjusting the site operational hours.

Recommendation

Based on the findings demonstrated within this report it is my recommendation to meet with the communities to discuss the Board's review of the sites, and adopt the following changes if no other alternatives are identified:

1. Adopt the proposed "Rural Transfer Station Operational Schedule Reduction" schedule. This would mean the Missouri Valley, Shoshoni, Atlantic City, and Pavillion transfer stations would only be open two Saturdays per month for three hours per open event. The Jeffrey City transfer station would be open one Friday per month for three hours.
2. Remove the Recycling Credit.

I look forward to discussing these options with the full Board at the January 2019 Regularly Scheduled Board of Director's Meeting. Please feel free to contact me at your convenience with any comments or questions at (307) 332-7040 or afrey.fcswwd@wyoming.com.

Thank you,



Andrew Frey, P.E.

Superintendent of Operations

Fremont County Solid Waste Disposal District

Attachment Summary

1. **Calculated Average Number of Daily Customers – 2012 through 2018**
2. **2012 through 2018 Site Usage Represented via Graphs**
3. **Calculated Monthly and Annual Site Losses – 2012 through 2018**
4. **Monthly and Annual Site Revenues – 2012 through 2018**
5. **Projections Based on Operations of the Sites 2-days per month in Comparison to the Existing Weekly Operations**

Attachment #1

Calculated Average Number of Daily Customers 2012 through 2018

Revision Date: 12/19/2018

Average Number of Daily Customers

2012	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	
January							
February							
March							
April							
May							
June	9	12	2	4	11	16	
July	15	27	1	6	8	7	
August	14	23	2	5	28	17	
September	10	24	4	4	24	21	
October	9	21	3	4	17	15	
November	5	23	3	5	18	11	
December	4	20	2	2	19	14	
2013	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	
January	4	27	3	2	17	11	
February	3	26	3	3	19	12	
March	3	24	3	3	21	15	
April	5	32	2	3	19	15	
May	5	30	4	3	22	13	
June	11	33	5	5	27	18	
July	18	34	4	3	28	18	
August	16	30	4	4	26	18	
September	11	30	4	3	20	11	
October	15	23	4	2	19	14	
November	6	24	3	0	20	12	
December	3	23	2	2	17	12	
	98	334	37	32	255	167	924

2014	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	
January	4	25	3	3	13	13	
February	2	26	3	2	21	9	
March	4	22	5	3	5	15	
April	4	26	2	2	23	13	
May	6	27	5	3	25	15	
June	13	34	4	2	28	16	
July	21	30	5	0	24	18	
August	15	27	4	2	22	13	
September	11	29	4	2	25	11	
October	11	32	4	3	18	14	
November	5	27	2	3	12	8	
December	2	20	1	3	14	6	
	98	323	41	27	228	150	867

2015	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	
January	5	24	2	4	15	9	
February	4	18	6	1	8	8	
March	5	30	4	2	18	9	
April	6	26	4	3	20	17	
May	7	16	3	2	18	14	
June	14	23	4	2	24	12	
July	19	24	4	1	22	13	
August	15	18	4	2	21	15	
September	16	21	6	2	23	13	
October	12	20	4	1	18	10	
November	6	16	3	2	14	8	
December	4	15	3	3	15	11	
	113	250	47	24	215	138	788

2016	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	
January	4	18	3	1	17	7	
February	7	18	6	2	17	10	
March	7	18	6	2	16	10	
April	7	17	6	2	20	12	
May	8	15	4	2	21	12	
June	14	22	3	2	24	13	
July	19	18	4	1	20	12	
August	15	18	3	2	19	9	
September	15	13	5	1	23	11	
October	12	15	3	2	15	11	
November	7	15	3		14	7	
December	2	10	2	2	8	9	
	117	195	47	19	213	122	713

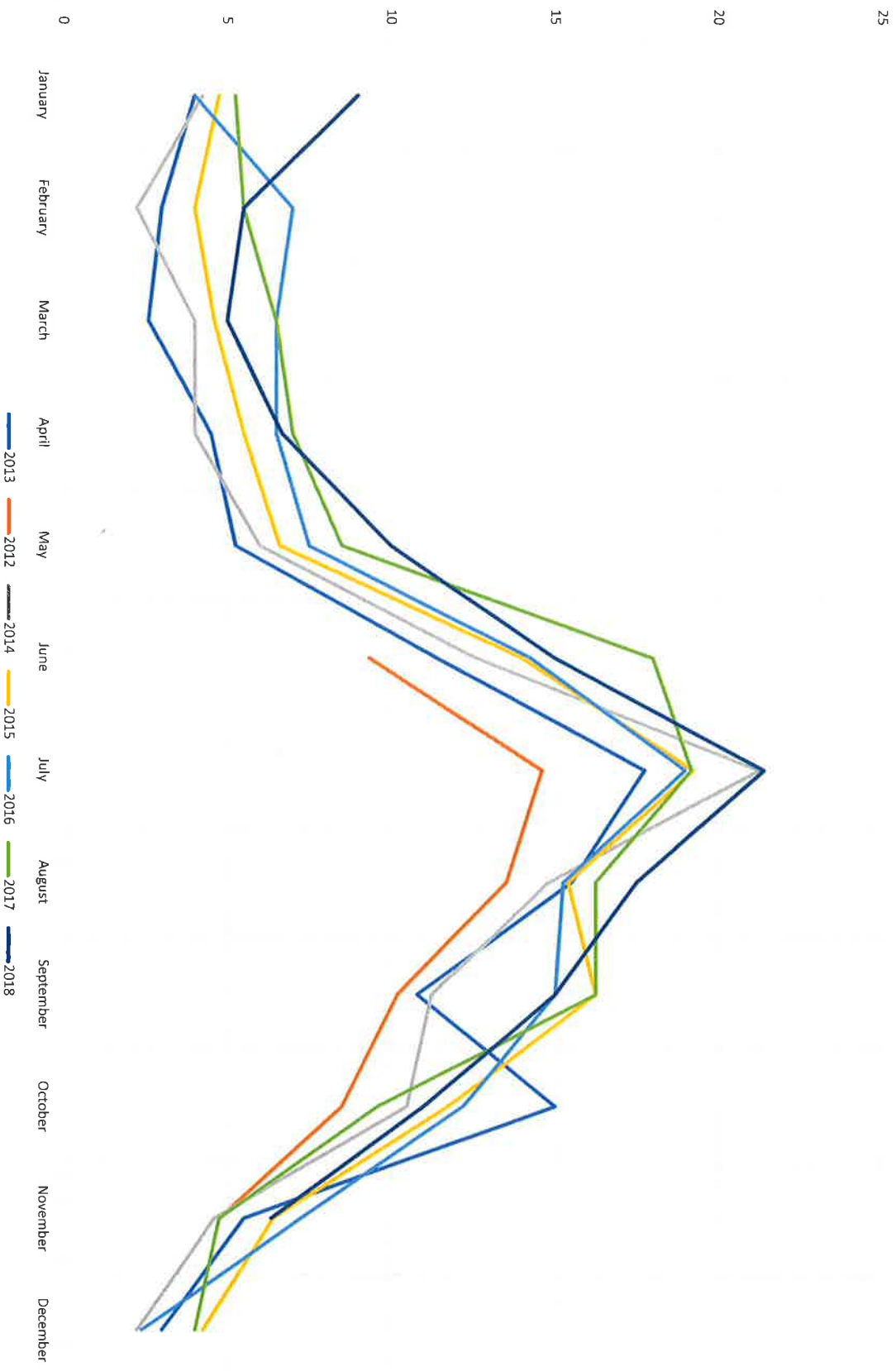
2017	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	
January	5	12	3	3	11	4	
February	6	13	3		12	8	
March	7	19	5	2	19	9	
April	7	13	4	2	15	9	
May	9	17	3	2	6	10	
June	18	22	5	2	18	11	
July	19	19	4	2	14	9	
August	16	15	5	4	15	13	
September	16	14	5	1	13	8	
October	10	15	4	2	13	10	
November	5	14	4	3	10	8	
December	4	12	2	1	10	6	
	121	183	45	22	153	103	627

2018	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	
January	9	13	5	2	10	7	
February	6	13	2	2	11	4	
March	5	14	4	3	13	9	
April	7	15	3	2	15	9	
May	10	13	2		16	7	
June	15	15	3	1	15	11	
July	21	17	3	3	12	11	
August	18	17	4	2	16	10	
September	15	14	4	2	11	8	
October	11	11	4		11	7	
November	6	9	3		7	7	
December	122	148	36	16	137	89	548

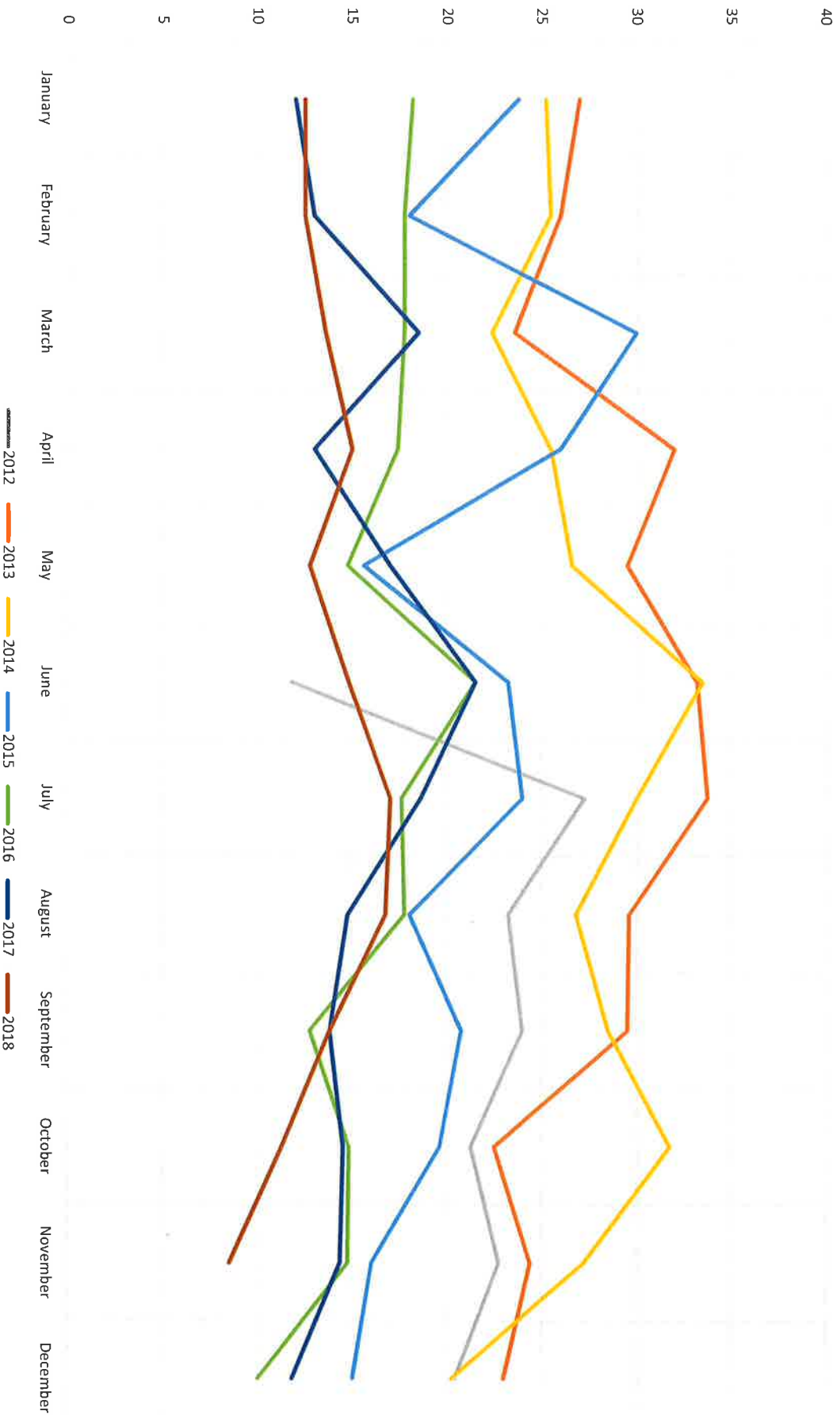
Attachment #2

2012 through 2018 Site Usage Represented via Graphs

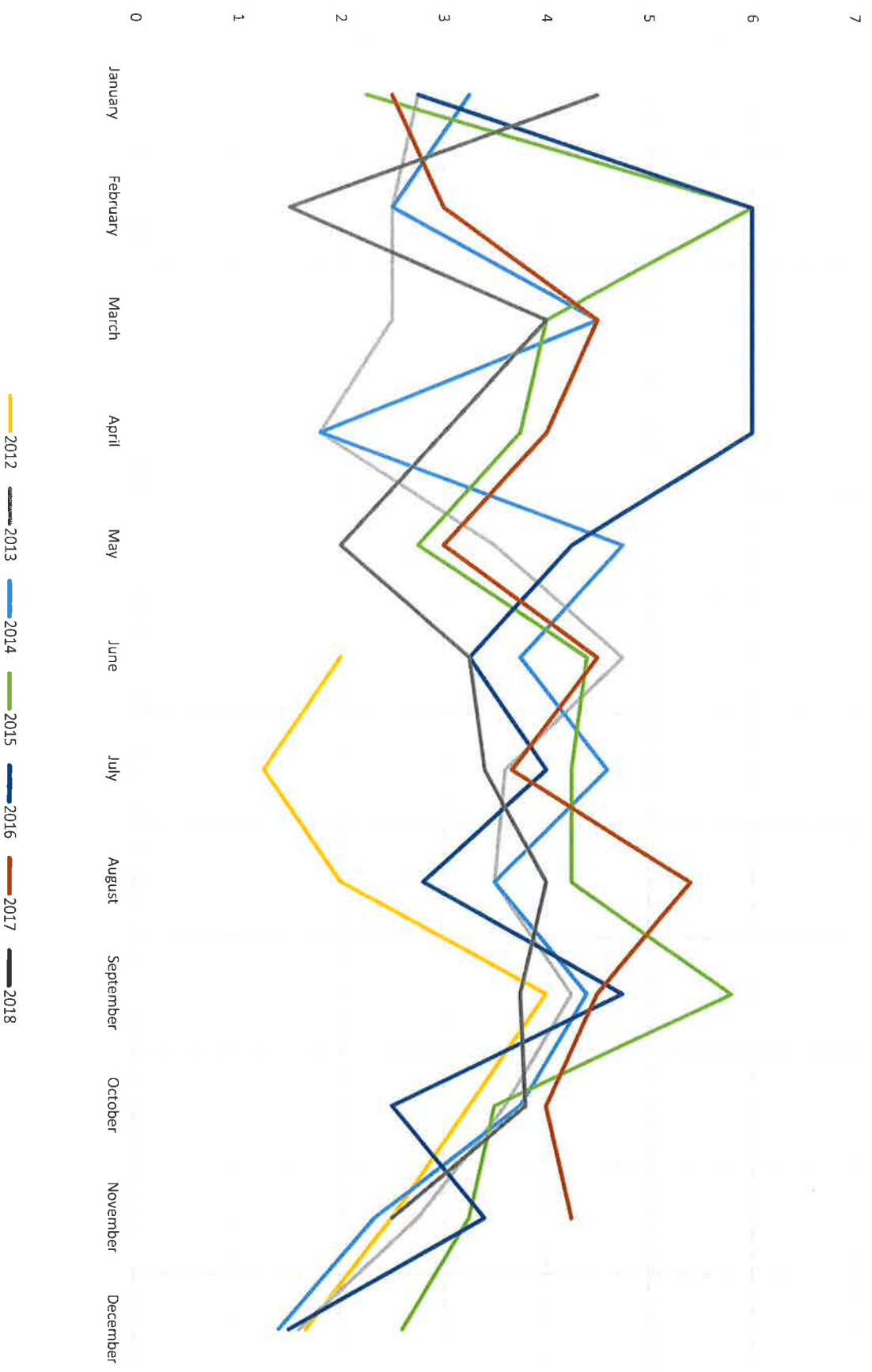
Atlantic City Avg Daily Customers



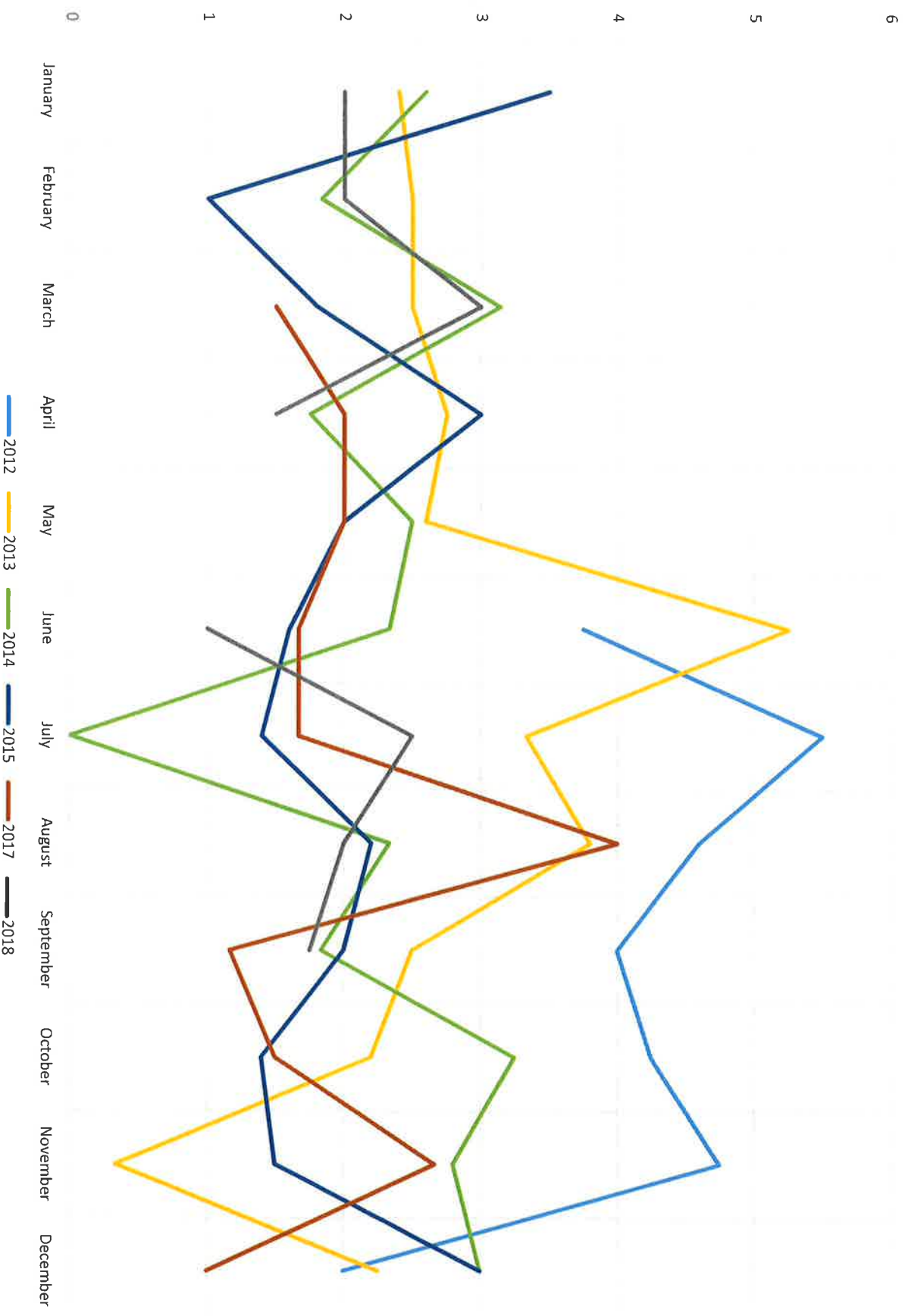
Pavillion Average Daily Customers



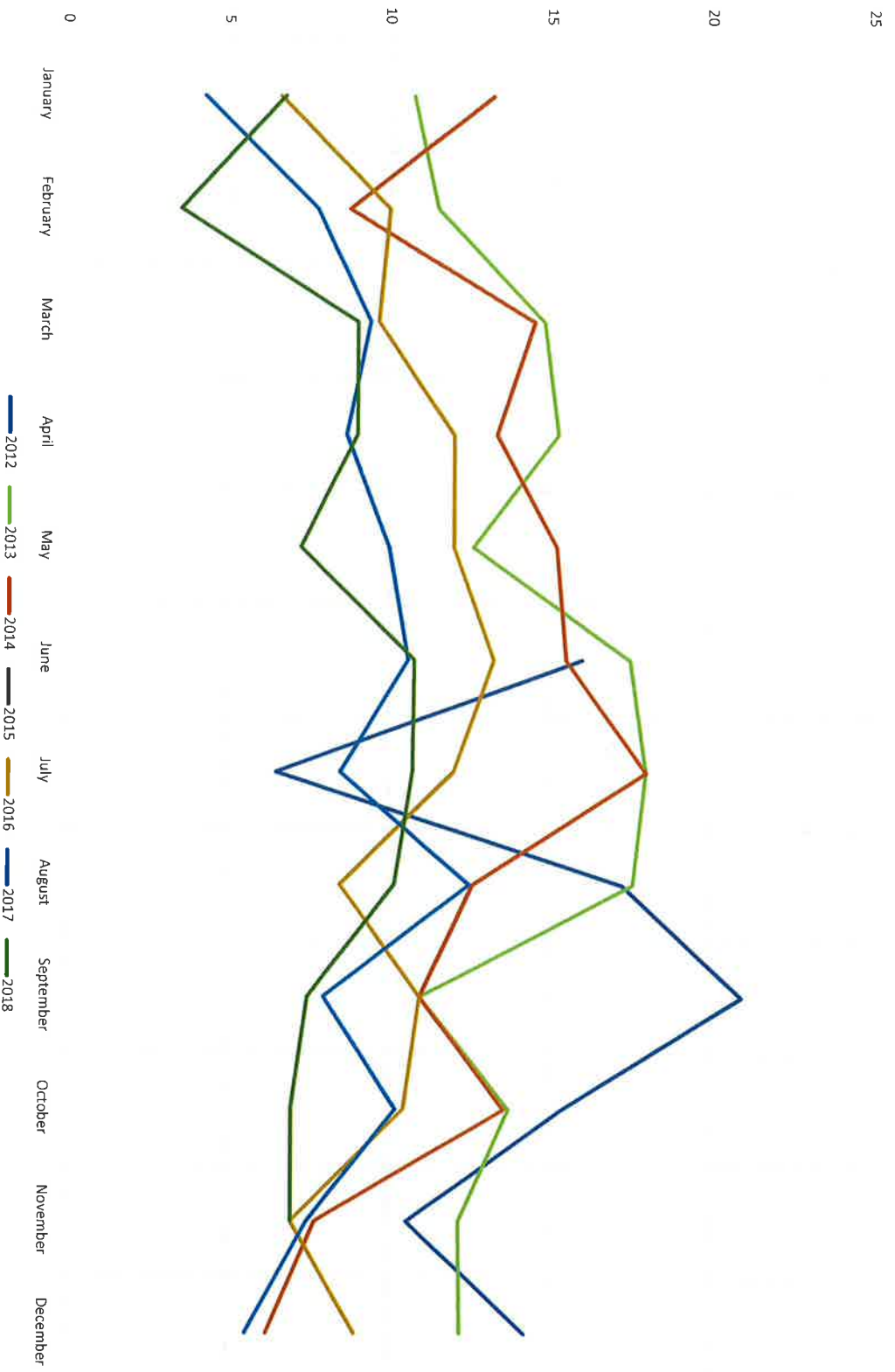
Jeffrey City
Average Daily Customers



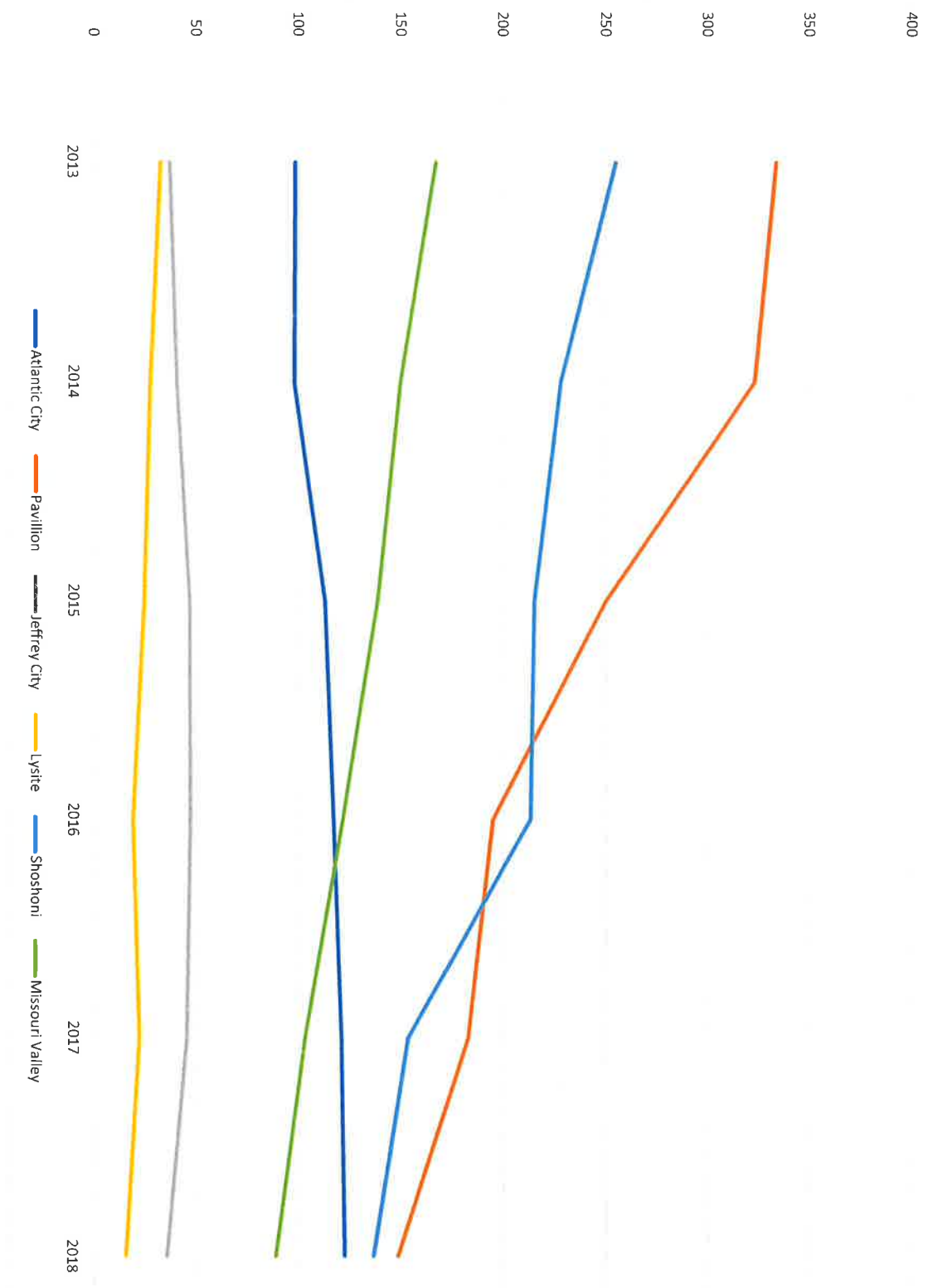
Lysite Average Daily Customers



Missouri Valley Average Daily Customers



Annual No. of Customers



Attachment #3

Calculated Monthly and Annual Site Losses 2012 through 2018

Transfer Stations - Calculated Monthly Financial Losses

2013	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>	<u>Annual Number of Customers</u>	<u>Annual Loss Per Customer</u>
January	\$2,177	\$3,311	\$2,342	\$3,684	\$2,676	\$2,856			
February	\$1,381	\$4,995	\$2,352	\$4,289	\$2,131	\$3,063			
March	\$2,651	\$4,410	\$2,914	\$2,930	\$2,795	\$2,554			
April	\$2,148	\$4,137	\$3,984	\$3,659	\$3,720	\$5,188			
May	\$2,140	\$4,405	\$2,320	\$4,335	\$3,474	\$5,093			
June	\$2,435	\$4,569	\$2,773	\$5,028	\$3,463	\$3,390			
July	\$2,954	\$4,284	\$3,381	\$2,231	\$4,341	\$4,336			
August	\$2,365	\$5,006	\$2,334	\$4,329	\$3,484	\$3,642			
September	\$2,499	\$4,029	\$2,816	\$2,987	\$3,484	\$2,673			
October	\$2,417	\$5,285	\$2,895	\$5,081	\$3,169	\$3,353			
November	\$2,230	\$4,050	\$2,353	\$2,810	\$2,910	\$3,731			
December	\$2,278	\$3,251	\$2,970	\$2,967	\$2,507	\$1,403			
	\$27,675	\$51,732	\$33,435	\$44,331	\$38,153	\$41,282	\$236,608	924	\$256

2014	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>	<u>Annual Number of Customers</u>	<u>Annual Loss Per Customer</u>
January	\$2,144	\$4,262	\$2,877	\$1,409	\$3,086	\$2,907			
February	\$1,851	\$3,843	\$2,352	\$634	\$2,557	\$6,327			
March	\$2,556	\$3,639	\$1,148	-\$148	\$3,393	\$3,197			
April	\$2,076	\$3,909	\$2,962	\$542	\$4,229	\$2,380			
May	\$2,066	\$5,362	\$3,413	\$464	\$1,583	\$4,273			
June	\$2,351	\$4,340	\$2,299	\$537	\$3,682	\$3,221			
July	\$2,644	\$4,573	\$3,470	\$665	\$3,067	\$1,930			
August	\$2,581	\$4,938	\$2,310	\$511	\$2,025	\$3,154			
September	\$2,162	\$4,064	\$2,882	\$521	\$2,646	\$2,906			
October	\$3,289	\$5,190	\$2,319	-\$132	\$2,605	\$3,624			
November	\$3,444	\$5,242	\$2,464	\$532	\$1,149	\$2,414			
December	\$1,854	\$3,374	\$2,974	\$1,178	\$3,576	\$3,007			
	\$29,016	\$52,735	\$31,470	\$6,713	\$33,598	\$39,342	\$192,873	867	\$223

2015	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>	<u>Annual Number of Customers</u>	<u>Annual Loss Per Customer</u>
January	\$2,099	\$4,666	\$2,356	-\$115	\$2,641	\$2,883			
February	\$1,779	\$4,063	\$1,147	\$577	\$1,836	\$2,540			
March	\$2,585	\$2,373	\$1,157	-\$82	\$3,524	\$2,482			
April	\$2,220	\$4,962	\$2,969	\$609	\$4,017	\$2,155			
May	\$2,818	\$5,231	\$2,349	-\$147	\$2,506	\$3,156			
June	\$2,011	\$3,761	\$2,908	-\$94	\$3,887	\$3,518			
July	\$2,281	\$4,178	\$3,452	\$1,287	\$3,449	\$4,364			
August	\$2,423	\$3,941	\$3,519	-\$200	\$3,286	\$3,656			
September	\$2,787	\$3,301	\$2,827	\$562	\$2,710	\$2,202			
October	\$2,064	\$4,910	\$3,434	-\$82	\$3,078	\$2,501			
November	\$3,072	\$4,228	\$2,321	\$658	\$2,756	\$2,965			
December	\$1,809	\$2,410	\$2,931	-\$87	\$2,871	\$1,215			
	\$27,948	\$48,023	\$31,369	\$2,887	\$36,561	\$33,638	\$180,425	788	\$229

2016	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	Total	Annual Number of Customers	Annual Loss Per Customer
January	\$2,609	\$4,834	\$2,346	\$1,547	\$2,580	\$3,838			
February	\$1,430	\$3,974	\$1,883	-\$65	\$2,348	\$2,882			
March	\$1,160	\$4,960	\$547	\$573	\$3,124	\$3,217			
April	\$1,418	\$5,279	\$554	-\$20	\$3,428	\$3,741			
May	\$2,269	\$4,313	\$3,333	-\$185	\$3,039	\$3,303			
June	\$2,224	\$5,802	\$2,324	\$786	\$3,024	\$3,816			
July	\$3,365	\$4,579	\$3,337	-\$100	\$2,048	\$3,600			
August	\$2,293	\$4,804	\$3,888	\$1,405	\$3,414	\$3,541			
September	\$2,975	\$4,399	\$2,238	-\$65	\$2,776	\$3,149			
October	\$1,990	\$4,016	\$2,345	-\$30	\$3,050	\$3,245			
November	\$1,721	\$4,465	\$2,884	\$0	\$2,418	\$2,180			
December	\$3,383	\$3,234	\$3,552	-\$90	\$2,371	\$2,631			
	\$26,836	\$54,660	\$29,232	\$3,756	\$33,620	\$39,144	\$187,247	\$713	\$263

2017	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	Total	Annual Number of Customers	Annual Loss Per Customer
January	\$2,085	\$2,703	\$2,331	\$907	\$2,687	\$2,395			
February	\$883	\$3,220	\$1,159	\$0	\$2,460	\$3,101			
March	\$1,250	\$4,072	\$1,138	-\$55	\$1,860	\$2,922			
April	\$856	\$4,765	\$577	-\$115	\$2,583	\$1,210			
May	\$2,341	\$4,009	\$2,910	\$1,540	\$3,197	\$3,392			
June	\$2,674	\$4,945	\$3,558	-\$110	\$2,964	\$3,807			
July	\$2,766	\$4,947	\$2,308	-\$165	\$3,114	\$2,257			
August	\$2,252	\$4,054	\$3,331	\$764	\$2,178	\$2,488			
September	\$2,246	\$4,592	\$2,813	-\$145	\$2,771	\$3,934			
October	\$2,561	\$3,946	\$3,264	-\$105	\$2,439	\$2,664			
November	\$2,763	\$2,472	\$2,351	-\$125	\$2,413	\$2,587			
December	\$892	\$2,992	\$972	\$1,065	\$1,943	\$3,117			
	\$23,569	\$46,716	\$26,710	\$3,455	\$30,609	\$33,876	\$164,934	627	\$263

2018	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	Total	Annual Number of Customers	Annual Loss Per Customer
January	\$753	\$4,195	\$1,548	-\$70	\$4,283	\$2,502			
February	\$890	\$3,640	\$2,115	-\$110	\$2,024	\$1,851			
March	\$1,199	\$4,488	\$2,048	-\$30	\$2,673	\$2,933			
April	\$1,604	\$2,428	\$1,906	\$926	\$2,641	\$1,679			
May	\$2,628	\$3,278	\$3,717	\$0	\$1,731	\$1,688			
June	\$2,317	\$4,317	\$2,725	-\$125	\$2,049	\$2,522			
July	\$2,529	\$2,670	\$3,314	-\$50	\$2,692	\$2,458			
August	\$1,853	\$2,708	\$2,905	\$827	\$1,993	\$2,655			
September	\$2,817	\$4,369	\$2,303	-\$115	\$1,145	\$2,560			
October	\$2,249	\$2,736	\$3,501	\$0	\$2,559	\$2,443			
November	\$1,600	\$3,324	\$2,344	\$0	\$2,557	\$2,968			
December									
	\$20,438	\$38,154	\$28,426	\$1,253	\$26,347	\$26,258	\$140,874	548	\$257

Attachment #4

Monthly and Annual Site Revenues 2012 through 2018

Transfer Stations - Revenues

<u>2013</u>	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>
January	\$107	\$1,150	\$77	\$136	\$692	\$474	
February	\$53	\$1,034	\$67	\$108	\$624	\$567	
March	\$102	\$1,335	\$87	\$126	\$773	\$833	
April	\$120	\$1,209	\$90	\$73	\$829	\$722	
May	\$128	\$1,359	\$99	\$88	\$798	\$665	
June	\$376	\$1,670	\$139	\$140	\$1,002	\$643	
July	\$487	\$1,383	\$117	\$61	\$1,176	\$829	
August	\$443	\$1,610	\$85	\$224	\$1,048	\$1,036	
September	\$380	\$1,133	\$126	\$69	\$976	\$554	
October	\$505	\$841	\$129	\$137	\$656	\$617	
November	\$174	\$1,111	\$66	\$7	\$696	\$619	
December	\$112	\$766	\$54	\$89	\$733	\$561	
	\$2,987	\$14,601	\$1,136	\$1,258	\$10,003	\$8,120	\$38,105

<u>2014</u>	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>
January	\$131	\$1,000	\$100	\$119	\$452	\$718	
February	\$61	\$1,140	\$67	\$116	\$533	\$353	
March	\$152	\$1,123	\$62	\$148	\$898	\$867	
April	\$152	\$1,123	\$62	\$148	\$898	\$867	
May	\$186	\$1,479	\$143	\$192	\$727	\$917	
June	\$436	\$1,185	\$120	\$139	\$1,375	\$624	
July	\$604	\$1,145	\$160		\$787	\$503	
August	\$505	\$1,236	\$109	\$203	\$753	\$586	
September	\$330	\$1,099	\$142	\$133	\$887	\$450	
October	\$247	\$1,246	\$100	\$132	\$623	\$688	
November	\$144	\$1,300	\$46	\$145	\$266	\$446	
December	\$58	\$687	\$50	\$115	\$580	\$312	
	\$3,006	\$13,763	\$1,161	\$1,590	\$8,779	\$7,331	\$35,630

<u>2015</u>	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>
January	\$133	\$1,052	\$63	\$115	\$494	\$476	
February	\$133	\$1,052	\$63	\$115	\$494	\$476	
March	\$138	\$1,126	\$53	\$82	\$775	\$369	
April	\$45	\$1,012	\$133	\$85	\$671	\$512	
May	\$237	\$804	\$70	\$147	\$466	\$736	
June	\$421	\$953	\$116	\$94	\$992	\$579	
July	\$566	\$682	\$191	\$95	\$775	\$745	
August	\$507	\$899	\$119	\$200	\$877	\$605	
September	\$65	\$812	\$197	\$90	\$577	\$441	
October	\$319	\$696	\$98	\$82	\$563	\$396	
November	\$190	\$597	\$98	\$60	\$600	\$332	
December	\$103	\$560	\$93	\$87	\$528	\$258	
	\$2,857	\$10,245	\$1,294	\$1,252	\$7,812	\$5,925	\$29,385

2016	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>
January	\$124	\$760	\$73	\$50	\$659	\$314	
February	\$103	\$660	\$51	\$65	\$602	\$466	
March	\$88	\$723	\$58	\$165	\$539	\$273	
April	\$88	\$871	\$51	\$20	\$801	\$798	
May	\$208	\$584	\$147	\$185	\$758	\$553	
June	\$478	\$929	\$95	\$70	\$842	\$685	
July	\$730	\$889	\$136	\$100	\$478	\$608	
August	\$456	\$788	\$107	\$20	\$801	\$379	
September	\$383	\$522	\$181	\$65	\$683	\$410	
October	\$400	\$759	\$74	\$30	\$668	\$423	
November	\$191	\$635	\$140	\$0	\$528	\$237	
December	\$98	\$447	\$43	\$90	\$248	\$594	
	\$3,347	\$8,567	\$1,156	\$860	\$7,607	\$5,740	\$27,277

2017	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>
January	\$160	\$408	\$88	\$45	\$602	\$152	
February	\$73	\$522	\$51		\$298	\$400	
March	\$90	\$856	\$72	\$55	\$501	\$456	
April	\$100	\$739	\$28	\$115	\$523	\$263	
May	\$242	\$792	\$114	\$65	\$146	\$460	
June	\$600	\$769	\$221	\$110	\$656	\$595	
July	\$843	\$1,005	\$92	\$165	\$608	\$340	
August	\$496	\$586	\$258	\$150	\$534	\$538	
September	\$533	\$649	\$181	\$145	\$323	\$412	
October	\$364	\$603	\$160	\$105	\$639	\$449	
November	\$124	\$438	\$147	\$125	\$364	\$257	
December	\$64	\$540	\$17	\$35	\$299	\$275	
	\$3,689	\$7,907	\$1,429	\$1,115	\$5,493	\$4,597	\$24,230

2018	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Total</u>
January	\$65	\$500	\$73	\$70	\$396	\$214	
February	\$76	\$472	\$21	\$110	\$273	\$113	
March	\$78	\$710	\$72	\$30	\$469	\$369	
April	\$156	\$651	\$54	\$85	\$593	\$285	
May	\$280	\$515	\$67		\$359	\$276	
June	\$478	\$721	\$92	\$125	\$439	\$620	
July	\$829	\$593	\$117	\$50	\$478	\$370	
August	\$522	\$599	\$115	\$115	\$569	\$624	
September	\$610	\$709	\$116	\$115	\$270	\$292	
October	\$389	\$458	\$160		\$539	\$309	
November	\$157	\$262	\$75		\$200	\$327	
December							
	\$3,640	\$6,190	\$962	\$700	\$4,585	\$3,799	\$19,876

Annual Revenue Collected



Attachment #5

Projections Based on Operations of the Sites 2-days per month in Comparison to the Existing Weekly Operations

Annual Site Staffing and Vehicle Cost Estimate (based on x2 open days per month)

*** Riverton TS to the Sites (round trip).

	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>TS Operator & Pickup Mileage</u> <u>Cost</u>
# of Miles	120	70	120	110	50	35	\$3.30
January	\$792	\$462	\$792		\$330	\$231	\$3.30
February	\$792	\$462	\$792		\$330	\$231	\$3.30
March	\$792	\$462	\$792		\$330	\$231	\$3.30
April	\$792	\$462	\$792		\$330	\$231	\$3.30
May	\$792	\$462	\$792		\$330	\$231	\$3.30
June	\$792	\$462	\$792		\$330	\$231	\$3.30
July	\$792	\$462	\$792		\$330	\$231	\$3.30
August	\$792	\$462	\$792		\$330	\$231	\$3.30
September	\$792	\$462	\$792		\$330	\$231	\$3.30
October	\$792	\$462	\$792		\$330	\$231	\$3.30
November	\$792	\$462	\$792		\$330	\$231	\$3.30
December	\$792	\$462	\$792		\$330	\$231	\$3.30
	\$9,504	\$5,544	\$9,504		\$3,960	\$2,772	\$31,284

Disposal Cost (assumed to have the tonnages remain the same as 2018)*(representing the cost of disposal across the scales at \$80 per ton)*

	<u>Tons</u>	
January	38.6	
February	15.49	
March	16	
April	16.18	
May	17.61	
June	27.4	
July	27.8	
August	30.24	
September	27.46	
October	27.96	
November	19.33	
December	16.33	**December 2017 data used
	280.4	
	\$22,432	

Number of Hauls and Associated Cost (assumed to have the hauls remain the same as 2018)

**December 2017 data used

	<u>Atlantic City</u>	<u>Pavillion</u>	<u>Jeffrey City</u>	<u>Lysite</u>	<u>Shoshoni</u>	<u>Missouri Valley</u>	<u>Mileage Rate @ \$3.44/mi</u>
	120	70	120	110	50	35	3.44
January	1	4	1	0	2	2	3.44
February	0	3	2	0	2	0	3.44
March	1	5	2	0	4	4	3.44
April	1	1	2	1	2	0	3.44
May	3	2	2	0	1	0	3.44
June	2	3	1	0	1	1	3.44
July	2	1	1	0	1	1	3.44
August	1	1	1	1	1	1	3.44
September	2	3	0	0	0	1	3.44
October	1	1	1	0	1	1	3.44
November	1	2	0	0	2	1	3.44
December	0	1	1	1	1	2	3.44
	15	27	14	3	18	14	
	\$6,192	\$6,502	\$5,779	\$1,135	\$3,096	\$1,686	\$24,390

Site Revenue Estimate (assumed to have the revenues remain the same as 2018)
(representing the actual revenue generated at the site during the open hours)

2018	Atlantic City	Pavillion	Jeffrey City	Lysite	Shoshoni	Missouri Valley	Total
January	\$65	\$500	\$73	\$70	\$396	\$214	
February	\$76	\$472	\$21	\$110	\$273	\$113	
March	\$78	\$710	\$72	\$30	\$469	\$369	
April	\$156	\$651	\$54	\$85	\$593	\$285	
May	\$280	\$515	\$67		\$359	\$276	
June	\$478	\$721	\$92	\$125	\$439	\$620	
July	\$829	\$593	\$117	\$50	\$478	\$370	
August	\$522	\$599	\$115	\$115	\$569	\$624	
September	\$610	\$709	\$116	\$115	\$270	\$292	
October	\$389	\$458	\$160		\$539	\$309	
November	\$157	\$262	\$75		\$200	\$327	
December	\$64	\$540	\$17	\$35	\$299	\$275	
	\$3,704	\$6,730	\$979	\$735	\$4,884	\$4,074	
							\$21,106

**December 2017 data used

Staffing Costs =	-31,284
Actual Disposal Cost for the Waste Collected =	-22,432
Hauling Cost =	-24,390
Revenue Stream =	21,106
Projected Annual Losses at all Sites =	-57,000
2018 Calculated Annual Losses =	\$140,874
Projected Annual Losses at all Sites =	\$57,000
Estimated Annual Savings =	\$83,874



January 10, 2019

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

Re: FY 2018 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. 17 dated June 18, 2018. The calculations are based on comparing the July 5, 2018, survey completed by William H. Smith & Associates, Inc., to the July 7, 2017, 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 – 2018 July Existing Site Conditions
- ▶ Figure 2 – Final Cover Plan (Trihydro Corporation)
- ▶ Figure 3 – 2018 Airspace Consumed Isopach (July 2018 Survey over July 2017 Survey)
- ▶ Figure 4 – 2018 Airspace Remaining Isopach (Final Cover Plan compared to July 2018 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 7, 2017, to July 5, 2018, is 1,044 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) and construction & demolition debris (C&D) waste. Per District records the total tonnage placed in the MSW and C&D disposal area was 28,670 over the survey period. Per surveys the total consumed airspace was 54,900 cubic yards.

The AUF of 1,044 lb/cy for 2018 is an increase from last year (966 lb/cy in FY 2017-2018) and is a significant improvement over the 881 lb/cy calculated in FY 2015-2016. It is also an improvement over the AUF during bale fill operations (764 lb/cy in FY 2014-2015). The District changed operations from a bale fill to an area fill in FY 2015-2016.

LANDFILL CAPACITY

Based on the final cover contours included in the Lifetime Operating Permit Renewal Application compared to the July 5, 2018, survey, the remaining waste capacity of the Lander Landfill, as currently permitted, is 613,500 cubic yards. This remaining capacity does not include final cover or intermediate cover.

FUTURE AIR SPACE CONSUMPTION RATES AND SITE LIFE

The amount of waste that was landfilled at the Lander Landfill in FY 2017-2018 was 29,150 tons.¹ This was the fourth 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

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 at an airspace utilization factor equal to this past year's AUF (1,044 lb/cy). The means for placing and covering waste in the future is anticipated to be the same as FY 2017-2018 (i.e., use of spray-on alternative daily cover, and area fill placement).

¹ Included in the total tonnage landfilled in FY 2017-2018 is MSW (24,187 tons) and C&D (4,963 tons). This tonnage data is from tonnage reports for the dates between July 1, 2017 and June 30, 2018. Adjustments were made to calculate the tonnage between the survey dates of July 7, 2017 and July 5, 2018 to calculate AUF. Note that for purposes of calculating AUF, 166 tons of biowaste received during this period were not included in the total tonnage because biowaste is filled in an isolated area of the landfill not included in the survey comparison calculations.

Based on these assumptions, the Lander Landfill will close near the end 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 30-days.

Based on the remaining site life calculations discussed above, there is approximately 613,500 cubic yards of waste and daily cover airspace remaining. Approximately 37,112 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 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 45,173 cubic yards.
- ▶ **Final Cover Soil** – The amount of final cover soil required to close the landfill is estimated to be 232,320 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 82,000 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 of the landfill. It estimates that 81% of the soils excavated, or 319,400 cubic yards, will meet classified soil specification.
- ▶ **Unclassified Soils** – An estimated 49,500 cubic yards of unclassified soils were excavated along the south edge of the landfill this past fall (note that this excavation area is in addition to the borrow area referenced in the bullet above). The classified soils area mentioned in the



Mr. Andrew Frey, PE
January 10, 2019
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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 128,500 cubic yards.

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 46,500 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 \$2,662,400. The estimated present value of the post closure cost estimate is \$2,889,560. The closure and post closure cost estimates are attached.

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.

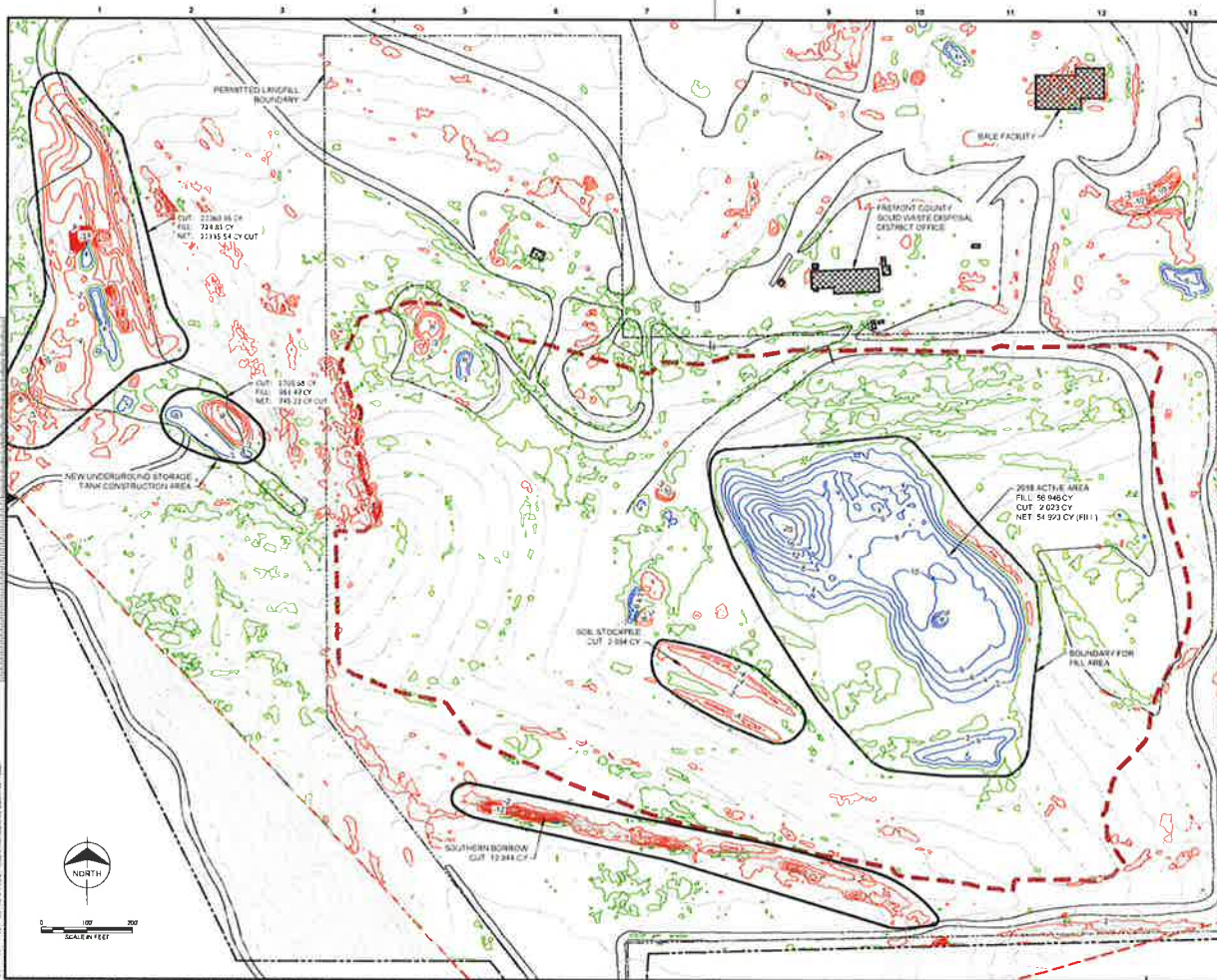
Sincerely,

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 stylized 'E'.

Matthew J. Evans, PE
Project Manager





REV	DATE	BY	CHK	DESCRIPTION
A	7/27/2017	CHD	MJE	

NOTES

1. ISOPACH BETWEEN JULY 13, 2016 AND JULY 13, 2017 SURVEYS. CONTOUR INTERVALS ARE 2-FOOT INTERVALS
2. EXISTING CONTOURS ARE 2-FOOT INTERVALS
3. THE NET FILL VOLUME OF 34,823 CY WAS USED FOR THE AUP CALCULATION IN 2016

LEGEND

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- LANDFILL BOUNDARY
- PROPERTY BOUNDARY
- EXISTING GROUND MAJOR CONTOUR LINES
- MINOR CONTOUR LINES

RED CONTOURS = CUT
 BLUE CONTOURS = FILL
 GREEN CONTOURS = NO CHANGE
 CY = CUBIC YARDS

BURNS & MCDONNELL

DATE DECEMBER 2018	DESIGNED S. DEMPSEY	CHECKED M. EVANS
-----------------------	------------------------	---------------------

**Fremont County
Solid Waste Disposal District**

LANDFILL

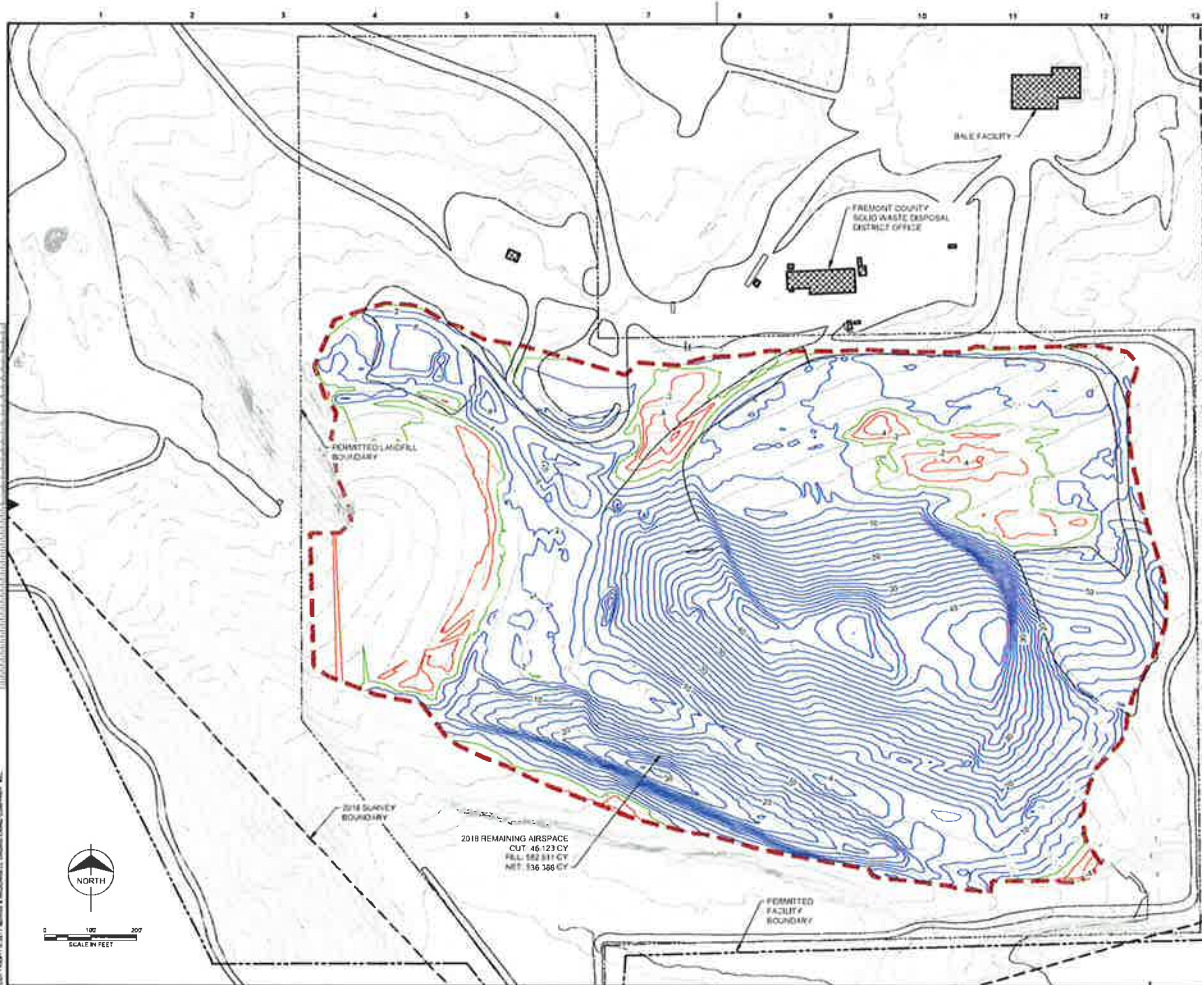
2018 CONSIDERED AIRSPACE
 2018 SURVEY OVER 2017 SURVEYS

PROJECT: 108735

FIGURE 3

SHEET: 3 OF 4

FILE: C:\Users\chd\OneDrive\Documents\2018\2018 Airspace Considered_Landfill_3.dwg



no.	date	by	cd	description
A	12/13/2018	GDE	MJE	

NOTES

1. ISOPACH BETWEEN FINAL TOP OF WASTE CONTOURS AND JULY 13, 2018 SURVEY. CONTOUR INTERVALS ARE 3 FEET.
2. VOLUMES DO NOT INCLUDE FINAL OR INTERMEDIATE COVER VOLUMES.
3. THE PERMITTED FINAL COVER PROFILE IS 12 INCHES OF INTERMEDIATE COVER, A GEOMEMBRANE LINER, AND 18 INCHES OF FINAL COVER. THE FINAL COVER IS NOT INCLUDED IN THE REMAINING AIRSPACE CALCULATIONS.

LEGEND

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- LANDFILL BOUNDARY
- PROPERTY BOUNDARY
- EXISTING GRAZING MAJOR CONTOUR LINES MINOR CONTOUR LINES
- RED CONTOURS = CUT
BLUE CONTOURS = FILL
GREEN CONTOURS = NO CHANGE
- CH = CHAIN YARDS

BURNS & MCDONNELL

DATE	DESIGNED	CHECKED
DECEMBER 2018	G. DEMPSKY	G. DEMPSKY
	G. DEMPSKY	M. EVANS

Fremont County Solid Waste Disposal District

LANDFILL

2018 REMAINING AIRSPACE (FINAL GRADES OVER 2018 SURVEY)

PROJECT	CONTRACT
108735	108735

FIGURE 4

Scale: 1" = 200' (Horizontal) 1" = 20' (Vertical)

g:\dempsky\Dec 13, 2018\13 51am\2 10km\N\B\CDW\2018\2018-2018\2018\2018 Capacity Audit\landfilling 4 - 2018 Airspace Remaining_Landfill.gxd

REMAINING AIRSPACE TABLE
Lander Landfill

MSW/C&D/Biodegradable Waste Tonnage Lander (See Waste Receipts)¹ =
 Predicted Future Generation Growth =
 Airspace Utilization Factor (AUF)³ =
 Remaining Capacity without final and intermediate cover =

29,150	tons ^A
1.00%	
1,044	lb/cy
613,511	cy

Year	Total Tonnage (Lander)	Annual MSW/C&D Airspace Consumed (cy)	Remaining Permitted Ultimate Capacity (cy)
2018	13,657	26,162	587,349
2019	29,441	56,401	530,948
2020	29,736	56,965	473,982
2021	30,033	57,535	416,447
2022	30,334	58,110	358,337
2023	30,637	58,691	299,646
2024	30,943	59,278	240,367
2025	31,253	59,871	180,496
2026	31,565	60,470	120,026
2027	31,881	61,075	58,952
2028	32,200	61,685	-2,734 <== Reaches capacity in December, 2028
2029	32,522	62,302	-65,036

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. See "Waste Receipts and AUF" for Airspace Utilization calculations. 4-year average AUF used for calculations.

LANDER LANDFILL - SOIL ANALYSIS

8-Jan-19

VARIABLES

Anticipated Closure Date	15-Dec-28		
Waste-to-Soil Ratio	94	6	Note: 6% Assumed based on Superintendent assessment of amount of soil used (November, 2018)
Annual airspace consumed (projected average)	59,000		
Waste received per week	1,067		
Cover Soil Needed Per Week	68.1		

SOIL REQUIRED

Remaining Capacity			5-Jul-18	613,500
	Area			
	Square Feet	Acres		
<i>Routine and Intermediate Cover</i>				
Routine Cover	NA	NA	37,112	
Intermediate Cover	1,219,680	28.0	45,173	Note: Approximately 8 acres of the 36 acres to be closed currently have intermediate cover.
<i>Final Cover</i>				
Classified Soils (48-inches)	1,568,160	36.0	232,320	Note: No topsoil included in the cover profile.
<i>Required Totals</i>				
Unclassified			82,285	
Classified			232,320	
Total Soils Required			314,605	

SOIL AVAILABLE

Unclassified Stockpiles			
Unclassified From Borrow Sources No. 1 and No. 4			74,921
Unclassified From West Borrow Near Loadout			4,000
Unclassified From Southeast Excavation Area			17,600
Unclassified From South Drainage Channel Excavation			(4,000)
Total Unclassified Available			92,521
Classified From Borrow Sources No. 1 and No. 4			319,400
Total Classified Soils Available			319,400

SOIL BALANCE

Unclassified (negative indicates shortfall)	10,236
Classified (negative indicates shortfall)	87,080

**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	%	1,655,740	132,460	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	1,655,740	82,790	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	5	DAY	2,240	11,200	Judgement; includes one heavy piece of equipment and one operator.
					\$226,450	
Site Grading and Associated Earthwork						
4	Grade intermediate cover	36	ACRE	1,650	59,400	Judgement based on similar projects
					\$59,400	
Final Cover						
5	Excavate anchor trenches	-	CY	5.81	-	HCCD 31 23 16.13 0062; 3/4 CY excavator; includes labor and equipment
6	Purchase and install geomembrane	-	SF	0.60	-	Judgement, 60-mil LLDPE geomembrane includes installation
7	Purchase and install geocomposite drainage layer	-	SF	0.60	-	Judgement, biplanar geocomposite includes installation
8	Backfill anchor trench	-	CY	1.83	-	HCCD 31 23 16.13 3080; Backfill trench, FE Loader 2-1/4 CY bucket, min haul
9	Compacted backfilled anchor trench	-	CY	1.95	-	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	6.00	1,392,000	Judgement based on similar projects
					\$1,392,000	
Site Reclamation						
11	Grade disturbed areas	39	ACRE	1,650	64,350	HCCD 31 22 16.10 3300; all disturbed areas
12	Revegetate	1,698,840	SF	0.08	135,910	Judgement; similar projects, includes soil amendments
					\$200,260	
Miscellaneous						
13	Survey Control and As-Built documentation	1.0	LS	4,080	4,080	WDEQ SWG #12 worksheet
					\$4,080	
Engineering and Construction Management						
14	Engineering and Bid Administration	5%	LS	1,882,190	94,110	Judgement, assumes 5% of construction cost
15	Construction Quality Assurance	10%	LS	1,882,190	188,220	Judgement, assumes 10% of construction cost
16	Construction Management	8%	LS	1,882,190	150,580	Judgement, assumes 8% of construction cost
					\$432,910	
SUBTOTAL					2,315,100	
CONTINGENCY					347,300	
TOTAL CLOSURE COSTS					\$2,662,400	

ASSUMPTIONS & LIMITATIONS

- Pricing is for 2018 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	3,570	107,100	Judgement
2	Post-closure site inspections	30	YR	820	24,600	WDEQ SWG #12, adjusted for inflation
3	Methane Monitoring	30	YR	1,530	45,900	Judgement, based on similar projects
4	Groundwater Monitoring	30	YR	35,190	1,055,700	2014 environmental monitoring contract
5	Operation of the groundwater/leachate collection system	30	YR	30,190	905,700	Judgement; includes sample fees, consultant fees, travel expense, equipment, supplies, and reporting
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 @\$100, \$100 OCDs per day) one per year
7	Petition to terminate post-closure period	1	LS	3,570	3,570	Judgement
8	Grounds maintenance	30	YR	3,570	107,100	Judgement; includes routine maintenance, revegetation of bare spots
9	Drainage Channel maintenance costs	30	YR	3,570	107,100	Judgement
10	Fence Maintenance Costs	6800	LF	13	91,420	WDEQ SWG #12, adjusted for inflation
11	Fence Removal Costs	6800	LF	2	15,260	WDEQ SWG #12, adjusted for inflation
12	Groundwater monitoring well abandonment	19	EA	610	11,590	Judgement, based on similar projects
13	Methane probe abandonment	2	EA	510	1,020	Judgement based on previous experience with probe abandonment
SUBTOTAL					2,512,660	
CONTINGENCY					376,900	
TOTAL POST-CLOSURE COSTS					2,889,560	

ASSUMPTIONS & LIMITATIONS

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- 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



January 7, 2019

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

Re: FY 2018 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. 17 dated June 18, 2018. The calculations are based on comparing the July 5, 2018, survey, completed by William H. Smith & Associates, Inc., to the July 6, 2017, survey and final cover 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 2017 and 2018 surveys and the final cover contours. The figures include:

- ▶ Figure 1 – 2018 July Existing Site Conditions
- ▶ Figure 2 – Final Cover Plan (TriHydro)
- ▶ Figure 3 – 2018 Airspace Consumed Isopach (July 2018 Survey over July 2017 Survey)
- ▶ Figure 4 – 2018 Airspace Remaining Isopach (Final Cover Plan compared to July 2018 Survey)

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

AIRSPACE CONSUMPTION

The airspace consumed between the July 6, 2017, and July 5, 2018, surveys is approximately 3,365 cubic yards. 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 an estimated volume of waste being disposed.

LANDFILL CAPACITY

Based on the final cover contours shown on Figure 2 compared to the July 5, 2018, survey, the remaining airspace (waste plus routine cover) capacity in the existing trench at the Shoshoni Landfill is 30,600 cubic yards. This capacity does not include final cover or intermediate cover.

The District plans to close the Shoshoni Landfill in 2019 after two building demolition projects are completed and placed in the landfill (Shoshoni town buildings and the Wyoming Wildlife buildings). These two projects are anticipated to take a large portion of the remaining airspace in the landfill.

SOIL BALANCE

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.

Soil Required

- ▶ Routine Cover Soil – Assuming the waste to routine cover soil ratio is 10:1, the approximate amount of routine cover soil used in FY 2017-2018 was 306 cubic yards. If the landfill ceases waste acceptance in the spring of 2019 in preparation for final closure, the amount of cover soil needed is approximately 230 cubic yards (i.e. $\frac{3}{4}$ of a year's worth).
- ▶ 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 3,250 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 top soil and 36,300 cubic yards of soil for the protective soil layer zone.
- ▶ Fill of Existing Trench – The existing trench area has approximately 30,600 cubic yards of capacity remaining as of July 5, 2018. The two building demolition projects mentioned above, and typical construction and demolition debris placement in the landfill are anticipated to consume most of the remaining trench capacity. If there is unused capacity at the time of closure, general fill will need to be placed in the unused capacity airspace to bring the landfill up to final closure grades. For planning purposes, it is assumed that between 0 and 10,000 cubic yards of general fill will be needed to fill the existing trench to final grade at the time of closure.

- ▶ Total Soil Requirements – The total soil requirement for the Shoshoni Landfill for the remainder of the site life is approximately 51,880 to 61,880 cubic yards.

- Routine and Intermediate Cover: 3,480 cubic yards
- Topsoil: 12,100 cubic yards
- Protective Soil Layer: 36,300 cubic yards
- General Fill: 0 – 10,000 cubic yards

Onsite unclassified soils can be used for general fill, routine and intermediate cover, and soil in the protective soil layer. The total unclassified soil need is therefore approximately 39,780 – 49,780 cubic yards.

Soil Available

Existing Soil Stockpiles – The 2018 surveys identified two areas of stockpiles totaling 63,800 cubic yards of soil. The stockpiles include 52,000 of unclassified soil (west of temporary fence) and 11,800 cubic yards of topsoil (east of the temporary fence).

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 25,120 – 35,120 cubic yards of unclassified fill, and a shortfall of approximately 300 cubic yards of topsoil.

CLOSURE AND POST-CLOSURE COST ESTIMATES

The closure and post-closure care costs have been updated 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 \$1,305,890. The estimated present value of the post-closure cost is \$552,950. The closure and post-closure cost estimates are attached.



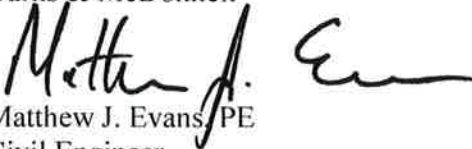
Mr. Andrew Frey, PE
January 7, 2019
Page 4

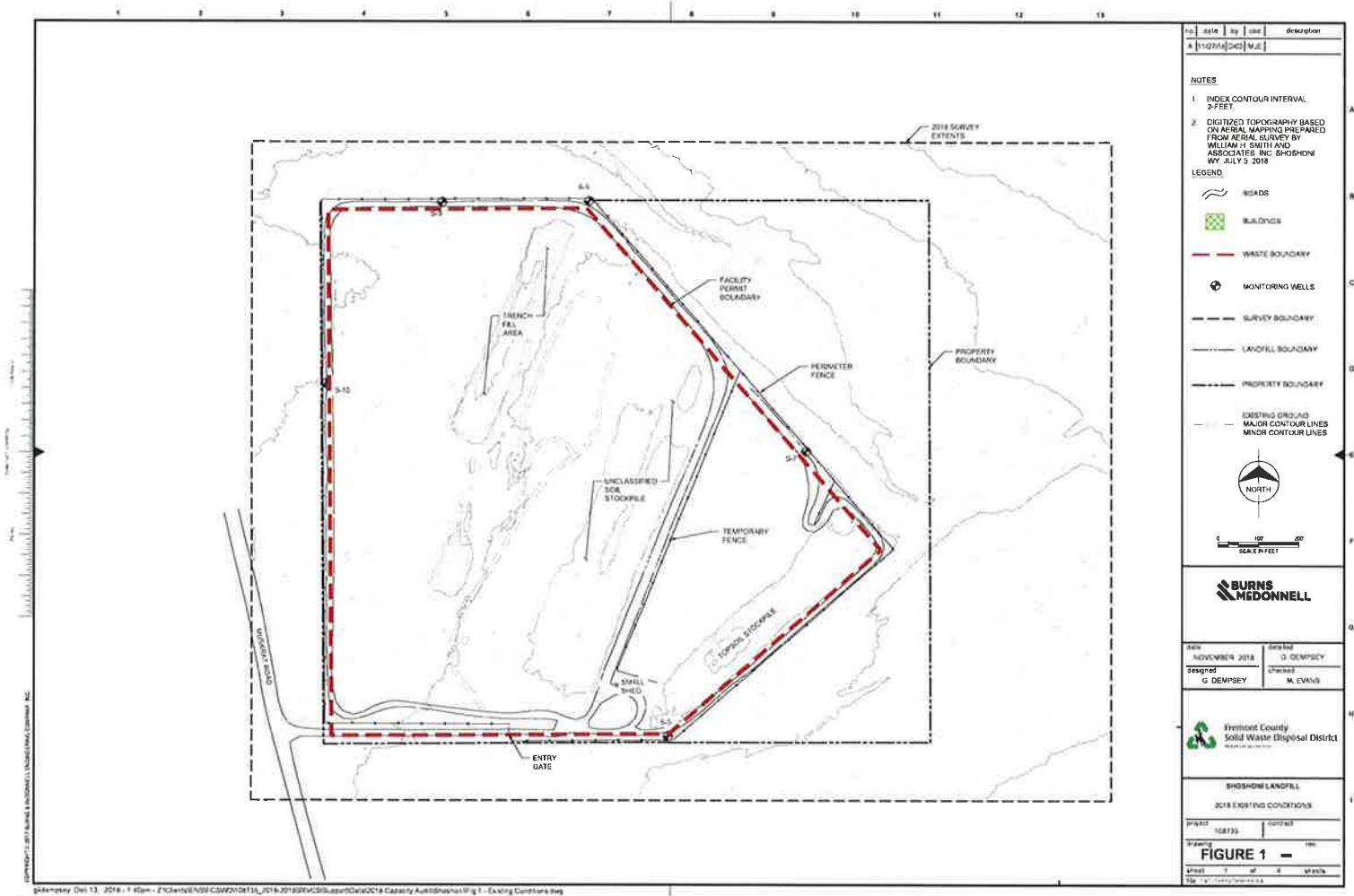
CLOSING

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


Matthew J. Evans, PE
Civil Engineer



SHOSHONI LANDFILL SOIL BALANCE ANALYSIS

January 7, 2019

VARIABLES

Anticipated Closure Date	31-Mar-19	
Waste-to-Soil Ratio	10	1
Annual airspace consumed (typical) (cyds)	3,365	
Waste received per week (cyds)	59	
Cover Soil Needed Per Week (cyds)	5.9	
Topsoil Expansion (stockpile to being spread)	10%	
Unclassified Expansion (stockpile to being placed)	0%	

SOIL REQUIRED

5-Jul-18

Remaining Capacity	31,817
Extra Soil Needed to Reach Closure Grades	29,556

	Area		
	Square Feet	Acres	
<i>Routine and Intermediate Cover</i>			
Routine Cover (Assumes closure is in Spring 2019)	NA	NA	226
Intermediate Cover	87,120	2.0	3,227
<i>Final Cover</i>			
Protective Soil Layer (18-inches)	653,400	15.0	36,300
Topsoil (6 inches)	653,400	15.0	12,100
<i>Required Totals</i>			
Unclassified (Stockpile)			69,309
Topsoil (Stockpile)			11,000

SOIL AVAILABLE

Unclassified Stockpiles	48,780	48,780
Topsoil Stockpile	11,619	11,619

SOIL BALANCE

Unclassified Soil (negative indicates shortfall)	(20,529)
Topsoil Stockpile (negative indicates shortfall)	619

**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	%	971,900	48,600.00	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	971,900	48,600.00	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	1	DAY	2,190.00	2,190.00	Judgement; includes one heavy piece of equipment and one operator.
					99,390.00	
Site Grading and Associated Earthwork						
4	Grade intermediate cover	15	ACRE	1,650	24,750.00	Judgement based on similar projects
					24,750.00	
Final Cover						
5	Load, haul, and place final cover soil from on-site stockpile	48,400	CY	5.00	242,000.00	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)
					827,320.00	
Site Reclamation						
6	Revegetate	1,100,000	SF	0.08	84,150.00	Judgement based on similar projects, includes soil amendments
7	Grade disturbed areas	9	ACRE	1,650	14,850.00	Judgement based on similar projects
					99,000.00	
Miscellaneous						
8	Survey Control and As-Built documentation	1.0	DAY	4,080.00	4,080.00	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
					4,080.00	
ENGINEERING AND CONSTRUCTION MANAGEMENT						
11	Bid Administration	1%	LS	1,071,300	10,710.00	Estimate
12	Construction Quality Assurance	2.5%	LS	1,071,300	26,780.00	Estimate
13	Construction Management	2.5%	LS	1,071,300	26,780.00	Estimate
				SUBTOTAL	64,270.00	
SUBTOTAL					1,135,560	
CONTINGENCY					170,330	
TOTAL CLOSURE COSTS					1,305,890	

ASSUMPTIONS & LIMITATIONS

- Pricing is for 2018 present value unless otherwise noted.
- 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

**Post-Closure Cost Estimate
Shoshoni Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
1	Recordkeeping	30	YR	3,570	107,100	Judgement
2	Post-closure site Inspections	30	YR	830	24,900	WDEQ SWG #12; adjusted for inflation
3	Methane Monitoring	30	YR	1,430	42,900	Judgement, based on similar project
4	Groundwater Monitoring	30	YR	6,120	183,600	2014 environmental contract for groundwater monitoring Judgement (ave 0.5 PLS @ 160, 8 hr GPS tech @\$100, 0.5hr datamgr @\$100,
5	Survey Control for settlement documentation	30	DAY	1,180	35,400	\$100 OCDs per day) one per year
6	Petition to terminate post-closure period	1	LS	3,570	3,570	Judgement
7	Methane Probe Abandonment	6	EA	550	3,300	Judgement based on previous experience with probe abandonment
8	Fence Maintenance Costs	3000	LF	13	40,330	WDEQ SWG #12; adjusted for inflation
9	Fence Removal Costs	3000	LF	2	6,730	WDEQ SWG #12; adjusted for inflation
10	Grounds maintenance	30	YR	1,100	33,000	Judgement; includes routine maintenance, revegetation of bare spots
SUBTOTAL					480,830	
CONTINGENCY					72,120	15%
TOTAL POST-CLOSURE COSTS					552,950	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2018 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



January 10, 2019

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

Re: FY 2018 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 (Landfill) in accordance with Authorization No. 17 dated June 18, 2018. The calculations are based on comparing the July 6, 2018, survey completed by William H. Smith & Associates, Inc. to the July 7, 2017, survey and final cover grades included in the May 21, 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 – 2018 July Existing Site Conditions
- ▶ Figure 2 – Final Cover Plan (Trihydro Corporation)
- ▶ Figure 3 – 2018 Airspace Consumed Isopach (July 2018 Survey over July 2017 Survey)
- ▶ Figure 4 – 2018 Airspace Remaining Isopach (Final Cover Plan compared to July 2018 Survey)

Also attached is a table showing the remaining fill projections and projected closure and post-closure costs for the Landfill.

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 working face area of the landfill over the period from July 7, 2017 and July 6, 2018 is 986 pounds per cubic yard (lb/cy), which is an improvement compared to last year's AUF of 809 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 from FY2017-2018 with adjustments made to match the survey period, the total tonnage placed in the



Mr. Andrew Frey, PE
January 10, 2019
Page 2

landfill during this period was 2,951 tons.¹ From the annual survey, the total consumed airspace was 5,986 cubic yards.

LANDFILL CAPACITY

Based on the current permitted final cover contours compared to the July 6, 2018, survey, the remaining waste and daily cover capacity of the Sand Draw Landfill, as currently permitted, is 2,388,786 cubic yards. This remaining capacity does not include final cover or intermediate cover.

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 6,945,000 cubic yards of capacity remaining when the expansion area is considered.

FUTURE AIR SPACE CONSUMPTION RATES AND SITE LIFE

The amount of waste that was landfilled at the Sand Draw Landfill in FY 2017-2018 was 2,960 tons.² Historical tonnages received at the Landfill are presented below. Note that of July 1, 2014 the primary volume of the Sand Draw Landfill MSW was diverted to the Lander Landfill. The Sand Draw MSW will continue to be diverted to the Lander Landfill until it reaches capacity. The Lander Landfill is projected to reach capacity in 2028. At that time the Sand Draw MSW will be diverted back to the Sand Draw Landfill and Lander Landfill waste will also be diverted to the Sand Draw Landfill.

- ▶ 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
- ▶ 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 = 2,960 tons

¹ Tires received at the landfill were recorded as C&D tonnage and transferred to Shoshoni Landfill for disposal. 442 of tires were transferred in FY2017-2018. The total tonnage received at the landfill was 3,401 tons.

² Included in the total tonnage landfilled in FY 2018 is MSW (627 tons), C&D (2,329 tons), and biowaste (4 tons). Note that 442 tons of tires were transferred to Shoshoni for disposal.

A 1.0% annual growth rate was used to project future annual waste receipts. Projections are based on an airspace utilization factor of 1,000 lb/cy for the years prior to and after the Lander Landfill closure.

Based on the growth rate and AUF assumptions discussed above, the Sand Draw Landfill as currently permitted will reach capacity in 2056. When the expansion area volume is included, the Sand Draw Landfill will reach capacity in approximately 2095. The attached Remaining Airspace Table presents the remaining life of the Sand Draw Landfill without expansion.

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

- ▶ Routine Cover Soil – It is assumed that routine cover operations will mimic the current Lander Landfill routine cover operations, which utilizes spray-on alternative daily cover, when Lander Landfill waste is redirected to the Sand Draw Landfill. In this type of operational scenario, soil cover is assumed to be six percent of the waste mass (routine cover with soil is placed every 30-days when a spray-on daily cover is used).

Based on the remain site life calculations discussed above, there is currently 2,388,786 cubic yards of currently permitted capacity remaining. Approximately 195,279 cubic yards of daily cover will be needed.

- ▶ 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 classified soil required to close the landfill is estimated to be 354,250 cubic yards based on the alternative cover permitted as part of the Lifetime Permit Application Renewal, dated May 21, 2018, that includes 39-inches of classified soil.
- ▶ Total Soil Requirements – The total soil requirement for the Sand Draw Landfill for the currently permitted landfill operation is approximately 304,000 cubic yards of unclassified soil for routine and intermediate cover, and approximately 354,000 cubic yards of classified final cover.

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 – Previous studies (Trihydro Corporation 2013) identified potential soils from the expansion area with a volume of approximately 1,200,000 cubic yards.



Mr. Andrew Frey, PE
January 10, 2019
Page 4

Soil Balance

Based on the soil required estimates and the soil available estimates described above, the Sand Draw Landfill has sufficient soil available for current operations as currently permitted. It should be noted that the future expansion area will need another borrow source for routine cover operations, intermediate cover, and final cover from areas onsite that are 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 \$3,443,620. The estimated present value of the post-closure cost estimate is \$2,699,940. The closure and post-closure cost estimates are attached.



Mr. Andrew Frey, PE
January 10, 2019
Page 5

CLOSING

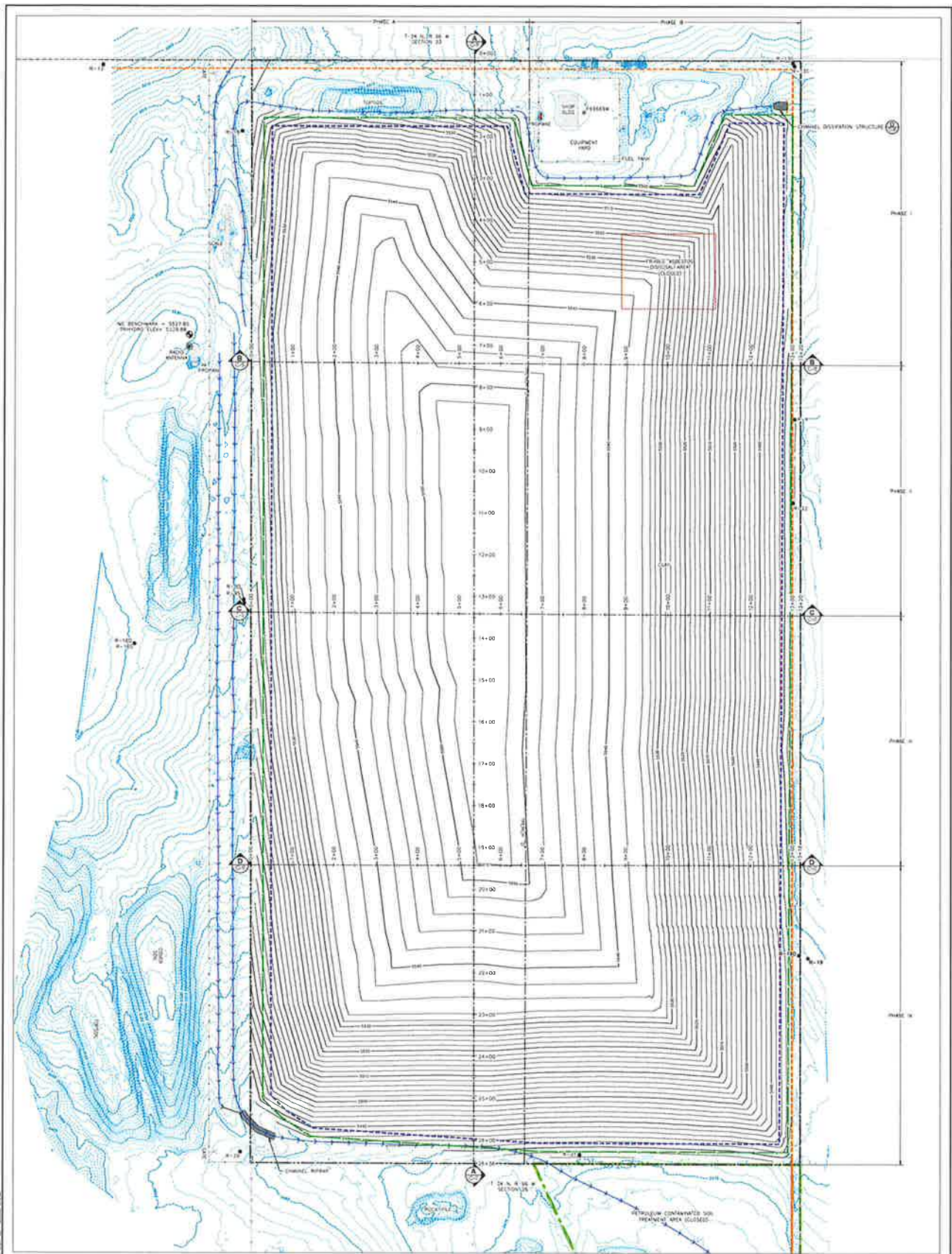
Should you have any questions regarding this letter report, please do not hesitate to contact Matt Evans at 952-656-3629 or at maevans@burnsmcd.com.

Sincerely,

Burns & McDonnell


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

Matthew J. Evans, PE
Senior Civil Engineer



FOR PERMIT
PURPOSES ONLY



REV 1	FIG 2 2 OF 4	TOP OF FINAL COVER - ORIGINAL AREA	 Trihydro CORPORATION <small>1265 Commerce Drive Laramie, WY 82070 www.trihydro.com © 2018 Trihydro Inc. All rights reserved.</small>	DRAWN BY: REP	WARNING IF THIS BAR DOES NOT MEASURE 1" IN LENGTH THEN DRAWING IS NOT AT INTENDED SCALE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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REMAINING AIRSPACE TABLE
Sand Draw Landfill

9/18/2018

MSW/C&D/Biowaste Tonnage Sand Draw (7/1/17 to 6/30/18) =
 Predicted MSW/C&D/Biowaste Tonnage Lander(2027)¹ =
 Predicted Future Generation Growth =
 Airspace Utilization Factor (AUF) - Sand Draw C&D =
 Airspace Utilization Factor (AUF) - w/ Lander added =
 Remaining Waste Capacity without final and intermediate cover=

3,402	tons ^A
31,881	tons ^A
1.00%	
1,000	lb/cy
1,000	lb/cy
2,824,270	cy

Year	Total Tonnage (Sand Draw)	Total Tonnage (Lander)	Annual MSW/C&D Airspace Consumed (cy)	Remaining Permitted Ultimate Capacity (cy)
2018	1,640	0	3,281	2,820,989
2019	3,436	0	6,872	2,814,117
2020	3,470	0	6,941	2,807,176
2021	3,505	0	7,010	2,800,166
2022	3,540	0	7,080	2,793,085
2023	3,576	0	7,151	2,785,934
2024	3,611	0	7,223	2,778,712
2025	3,647	0	7,295	2,771,417
2026	3,684	0	7,368	2,764,049
2027	3,721	31,881	71,204	2,692,845 <== Lander tonnage added
2028	3,758	32,200	71,916	2,620,930
2029	3,796	32,522	72,635	2,548,295
2030	3,834	32,847	73,361	2,474,934
2031	3,872	33,175	74,095	2,400,839
2032	3,911	33,507	74,836	2,326,004
2033	3,950	33,842	75,584	2,250,420
2034	3,989	34,181	76,340	2,174,080
2035	4,029	34,523	77,103	2,096,976
2036	4,069	34,868	77,874	2,019,102
2037	4,110	35,216	78,653	1,940,449
2038	4,151	35,569	79,440	1,861,010
2039	4,193	35,924	80,234	1,780,776
2040	4,235	36,284	81,036	1,699,739
2041	4,277	36,646	81,847	1,617,893
2042	4,320	37,013	82,665	1,535,228
2043	4,363	37,383	83,492	1,451,736
2044	4,407	37,757	84,327	1,367,409
2045	4,451	38,134	85,170	1,282,239
2046	4,495	38,516	86,022	1,196,218
2047	4,540	38,901	86,882	1,109,336
2048	4,585	39,290	87,751	1,021,585
2049	4,631	39,683	88,628	932,957
2050	4,678	40,080	89,514	843,443
2051	4,724	40,480	90,410	753,033
2052	4,772	40,885	91,314	661,719
2053	4,819	41,294	92,227	569,492
2054	4,868	41,707	93,149	476,343
2055	4,916	42,124	94,081	382,263
2056	4,965	42,545	95,021	287,241
2057	5,015	42,971	95,972	191,270
2058	5,065	43,400	96,931	94,338
2059	5,116	43,834	97,901	-3,562 Reach Capacity 2059
2060	5,167	44,273	98,880	-102,442
2061	5,219	44,716	99,868	-202,310

1. Waste from Lander will be diverted to the Sand Draw Landfill when Lander reaches capacity.

SAND DRAW LANDFILL - SOIL ANALYSIS
JANUARY 7, 2018

VARIABLES

Anticipated Closure Date	1-Jul-56		
Waste-to-Soil Ratio	94	6	Note: 6% Assumed based on Superintendent assessment of amount of soil used (November, 2018)
Annual airspace consumed (projected average)	85,377		
Waste received per week	1,543		
Cover Soil Needed Per Week	98.5		

SOIL REQUIRED

Remaining Capacity

5-Jul-18

2,388,786

	Area		
	Square Feet	Acres	
<i>Routine and Intermediate Cover</i>			
Routine Cover	NA	NA	195,279
Intermediate Cover	2,943,000	67.6	109,000 Note: Assume no intermediate cover currently placed at final grade.

Final Cover

Classified Soils (39-Inches)	2,943,000	67.6	354,250 Note: No topsoil included in the cover profile.
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Required Totals

Unclassified	304,279
Classified	354,250
<i>Total Soils Required</i>	658,529

SOIL AVAILABLE

Unclassified Stockpiles	80,000
Unclassified From Borrow	600,000 Note: Estimate approximately half of borrow soil meets classified soil spec (remainder in unclassified)
<i>Total Unclassified Available</i>	680,000

Classified From Borrow	600,000 Note: Estimate approximately half of borrow soil meets classified soil spec (remainder in unclassified)
<i>Total Classified Soils Available</i>	600,000

SOIL BALANCE

Unclassified (negative indicates shortfall)	375,721
Classified (negative indicates shortfall)	245,750

**Closure Cost Estimate
Sand Draw Landfill
January 2018**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
Mobilization & General Site Preparation						
1	Mobilization, Demobilization, Bonding, Insurance	8	%	2,142,100	171,370	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	2,142,100	107,110	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	5	DAY	2,190	10,950	Judgement; includes one heavy piece of equipment and one operator.
					\$289,430	
Site Grading and Associated Earthwork						
4	Grade intermediate cover	65	ACRE	1,650	107,250	HCCD 31 22 16.10 3300; portion of 77-acre closure graded prior project
					\$107,250	
Final Cover						
5	Load, haul, and place final cover soil from on-site stockpile	354,250	CY	5.00	1,771,250	Judgement based on similar projects; 67-acre closure at 6.5' thick cap
					\$1,771,250	
Methane system						
6	Purchase and install geocomposite strips	*	SF	0.60	*	Judgement, biplanar geocomposite includes installation. Quantity based on Lander quantity and adjusted proportionally. (65 acres compared to 36 acres)
7	Purchase and install methane vents	*	EA	2,190	*	Judgement based on similar projects. Quantity based on Lander quantity and adjusted proportionally.
8	Purchase and install methane probes	*	EA	2,190	*	Judgement based on similar projects
					\$0	
Site Reclamation						
9	Grade disturbed areas	67	ACRE	1,650	110,550	HCCD 31 22 16.10 3300; all disturbed areas
10	Revegetate	67	ACRE	2,190	146,730	Judgement; similar projects, includes soil amendments
					\$257,280	
Miscellaneous						
11	Survey Control and As-Built documentation	1.0	LS	6,320	6,320	WDEQ SWG #12 worksheet #1 (10/12/94); adjusted for inflation
					\$6,320	
Engineering and Construction Management						
12	General public notification	1	LS	3,670	3,670	Judgement
13	Engineering and Bid Administration	5%	LS	2,431,530	121,580	Judgement, assumes 5% of construction cost
14	Construction Quality Assurance	10%	LS	2,431,530	243,150	Judgement, assumes 10% of construction cost
15	Construction Management	8%	LS	2,431,530	194,520	Judgement, assumes 8% of construction cost
					\$562,920	
SUBTOTAL					2,994,450	
CONTINGENCY					449,170	
TOTAL CLOSURE COSTS					\$3,443,620	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2018 present value unless otherwise noted.
- 2 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	3,570	107,100	Judgement
2	Post-closure site inspections	30	YR	830	24,900	WDEQ SWG 12, adjusted for inflation
3	Methane Monitoring	30	YR	3,290	98,700	Judgement, based on similar projects
4	Groundwater Monitoring	30	YR	34,680	1,040,400	2014 environmental monitoring contract
5	Operation of the future leachate collection system	30	YR	22,440	673,200	Judgement
						Judgement (ave 0.5 PLS @ 160, 8 hr GPS tech @\$100, 0.5hr datamgr @ \$100, \$100 OCDs per day) one per year
6	Survey Control for settlement documentation	30	DAY	1,180	35,400	
7	Petition to terminate post-closure period	1	LS	3,570	3,570	Judgement
8	Grounds maintenance	30	YR	3,570	107,100	Judgement; includes routine maintenance, revegetation of bare spots
9	Drainage Channell maintenance costs	30	YR	3,570	107,100	Judgement
10	Fence Maintenance Costs	8000	LF	13.46	107,710	WDEQ SWG 12, adjusted for inflation
11	Fence Removal Costs	8000	LF	2.24	17,950	WDEQ SWG 12, adjusted for inflation
12	Groundwater monitoring well abandonment	29	EA	660	19,140	Judgement, based on similar projects
13	Methane probe abandonment	10	EA	550	5,500	Judgement based on previous experience with probe abandonment
SUBTOTAL					2,347,770	
CONTINGENCY					352,170	15%
TOTAL POST-CLOSURE COSTS					2,699,940	

ASSUMPTIONS & LIMITATIONS

1 Pricing is for 2018 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



January 7, 2019

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

Re: FY 2017-2018 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. 17 dated June 18, 2018. The calculations are based on comparing the July 5, 2018, survey completed by William H. Smith & Associates, Inc. to the July 5, 2017, survey and final cover grades included in the October 30, 2017, Lifetime Operating Permit Renewal Application.

Attached are drawings showing the existing conditions, final cover plan, and the cut/fill depths between the 2017 and 2018 surveys and the final cover contours. The figures include:

- ▶ Figure 1 – 2018 July Existing Site Conditions
- ▶ Figure 2 – Final Cover Plan (Lowham Walsh)
- ▶ Figure 3 – 2018 Airspace Consumed Isopach (July 2018 Survey over July 2017 Survey)
- ▶ Figure 4 – 2018 Airspace Remaining Isopach (Final Cover Plan compared to July 2018 Survey)

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 5, 2017, and July 5, 2018, is 410 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 tonnage placed in the landfill was 414 tons.¹ Per survey the total consumed airspace was calculated to be 2,018 cubic yards (2,472 cubic yards – 454 cubic yard soil stockpile).

The calculated AUF of 410 lb/cy is consistent with previous years. This low AUF for this site is likely because it is mainly construction and demolition debris that is being placed in the landfill. Construction and demolition waste is bulky and difficult to compact.

LANDFILL CAPACITY

Based on the airspace consumed in FY 2017-2018 subtracted from the FY 2016-2017 remaining capacity, the remaining waste capacity of the Dubois Landfill, as currently permitted, is estimated to be approximately 191,000 cubic yards. This remaining capacity does not include final cover or intermediate cover.

FUTURE AIR SPACE CONSUMPTION RATES AND SITE LIFE

The amount of waste that was landfilled at the Dubois Landfill in FY 2017-2018 was 414 tons. The tonnage received at the landfill has varied over the last six 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 = 410 tons
- ▶ Average = 477 tons

Waste tonnage was consistent in FY 2017-2018 with the average tonnage over the last six 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 as a 1.0% annual growth rate was used. This will help smooth out the ups and downs in projections from year to year of the capacity audit reports.

¹ Total tonnage received at the landfill during the period between July 6, 2017 and July 5, 2018 survey was comprised only of construction and demolition debris (C&D) waste.



Mr. Andrew Frey, PE
January 7, 2019
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Projections are also based on an airspace utilization factor of 410 lb/cy, which is the average of FY 2012-2013 through FY 2017-2018. Similar to the projection of tonnages, using an average AUF value will help smooth out the site life and remaining capacity projections from year to year.

Based on the growth rate, AUF assumptions above, and remaining waste capacity, the Dubois Landfill will reach capacity in 2078.

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 and Intermediate 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 Based on the remaining site life calculations discussed above, there is approximately 191,000 cubic yards of remaining waste and soil cover airspace; thus, approximately 17,500 cubic yards of soil are needed for routine and intermediate cover in the landfill operation.
- ▶ Final Cover Soil – The amount of soil required to close the landfill is estimated to be 28,000 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 45,500 cubic yards.

Soil Available:

- ▶ Potential Soil from Excavation of Permitted Cells – The FY 2012-2013 capacity audit (Trihydro Corporation 2013) identified the excavation of permitted cells to yield an approximate volume of 140,599 cubic yards. This volume was checked by hand as part of the 2015 capacity audit and found to be reasonable; therefore, this amount, less the amount excavated in FY2014-2015 through FY2017-2018 for cover operations, was used as the amount of soil available for future cover soils from future excavations at the site. The calculated amount is 137,000.

Soil Balance:

- ▶ Based on the estimates provided above, the Dubois Landfill has a soil surplus of approximately 91,000 cubic yards.



Mr. Andrew Frey, PE
January 7, 2019
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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 \$299,020. The increase is due to annual inflation of construction costs.

The estimated present value of the post closure cost is \$723,030. The closure and post closure cost estimates are attached.

CLOSING

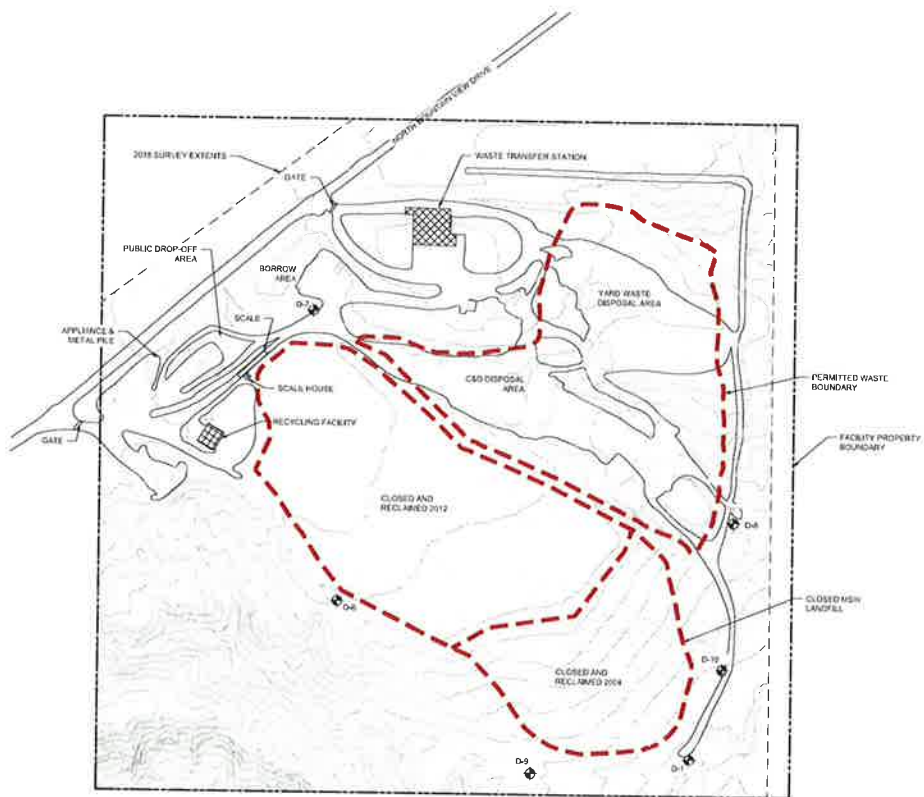
Should you have any questions regarding this letter report, please do not hesitate to contact Matt Evans at 952-656-3629 or at maevans@burnsmcd.com.

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 "Matthew" being more prominent than the last name "Evans".

Matthew J. Evans, PE
Project Manager



no.	date	by	used	description
4	12/15/18	GDE		WUE

NOTES

- INDEX CONTOUR INTERVAL: 2 FEET.
- DETAILED TOPOGRAPHY BASED ON AERIAL PHOTOGRAPHY PREPARED FROM AERIAL PHOTOGRAPHY BY WILLIAM H. SMITH AND ASSOCIATES, INC., DUBOIS, WY, JULY 5, 2018.

LEGEND

- ROADS
- BUILDINGS
- WASTE BOUNDARY
- MONITORING WELLS
- SURVEY BOUNDARY
- LANDFILL BOUNDARY
- PROPERTY BOUNDARY
- EXISTING GROUND MAJOR CONTOUR LINES
- EXISTING GROUND MINOR CONTOUR LINES

BURNS & MCDONNELL

date	DECEMBER 2018	designed	G. DEMPSEY	checked	W. EVANS
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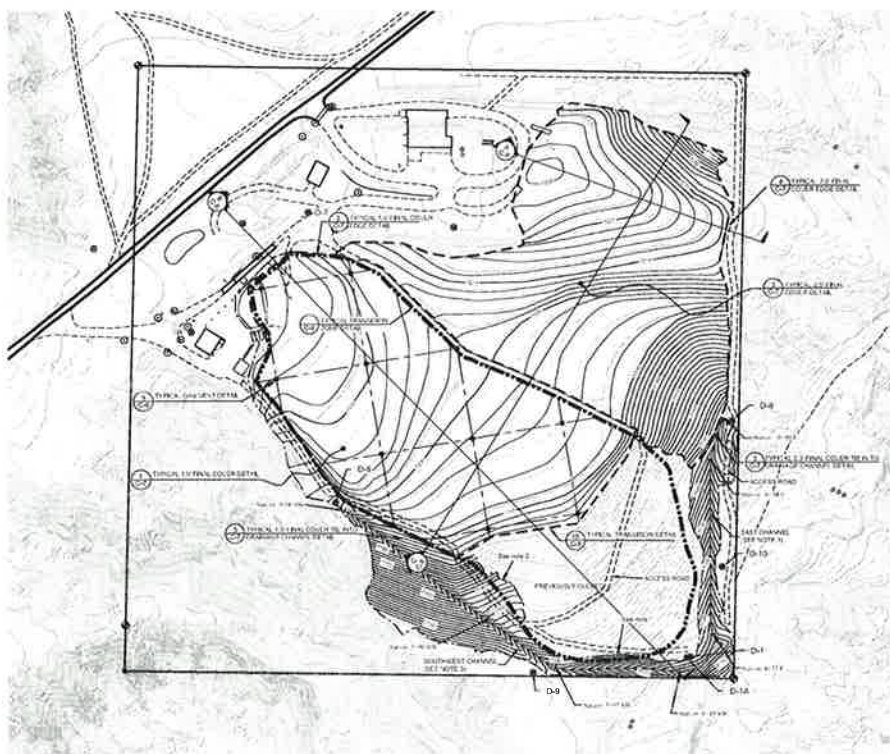
Fremont County Solid Waste Disposal District

DEBOIS LANDFILL

2018 EXISTING CONDITIONS

PROJECT	100% 100%	DATE	12/15/18
FIGURE 1			
SCALE	1" = 100'	DATE	12/15/18

PERMIT
COPY



- ### LEGEND
- | | |
|--|---|
| | FINAL COVER BOUNDARY |
| | EXISTING MAJOR CONTOUR LINE |
| | EXISTING MAJOR CONTOUR LINE |
| | DESIGN MAJOR CONTOUR LINE |
| | DESIGN MINOR CONTOUR LINE |
| | PERMIT BOUNDARY |
| | MAJOR ROAD |
| | ACCESS ROAD |
| | APPROXIMATE LIMITS OF MSW PLACEMENT |
| | APPROXIMATE LIMITS OF GRADED DESIGN CHANNEL AND DESIGN ROAD |
| | ONE-WAY HEADLINE LANE |
| | FENCE |
| | IRRI/PA' AREA |
| | LAMPPOST FACILITIES |
| | SPECIAL WASTE DISPOSAL AREA |
| | CULVERT |
| | UTILITY POLE |
| | SION |
| | FREE |
| | PROPERTY CORNER |
| | REFERENCE MONUMENT |
| | D-S MONITORING WELL |
| | GEOCOPIVATION GAS VENTING STRIP |
| | GAS VENT LOCATION |
| | SOUTH WEST CHANNEL |
| | EAST CHANNEL |

Notes
1) Any existing MSH is to be removed to beneath 1.5' final cover area.
2) Additional fill to be placed over existing cover and revegetated.
3) Channel depth, side slope and bottom width shall meet the dimensions shown in the table below. Riprap and filter stone shall be placed over the channel to the limits shown.

STATION	MINIMUM DEPTH	CHANNEL SIDE SLOPE	MINIMUM BOTTOM WIDTH
0+114 SW	2 ft	4:1	2 ft
114+390 SW	2 ft	4:1	2 ft
390+983 SW	2 ft	4:1	3 ft
983+849 SW	2 ft	3:1	2 ft
849 E	2 ft	4:1	2 ft
844+73 E	2 ft	4:1	4 ft



0	05/11	Submitted as part of permit renewal application	0000	0000	DRAWN	0000	PROJECT NO.	000000000000000000
					ENGINEER	0000	SCALE	000000000000000000
					CHECKED	0000	APPROVED	000000000000000000
0000	DATE	REVISIONS	0000	0000	DATE	000000000000000000	DATE	000000000000000000



DUBOIS LANDFILL
SITE DESIGN DRAWINGS
 Application Submittal Date: February 1, 2011
 WDEQ/SHWD File No. 10-165

FINAL COVER PLAN

6	12
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REMAINING AIRSPACE TABLE
Dubois Landfill

12/14/2018

C&D/Sump Waste Tonnage = 477 tons
 Predicted Future Generation Growth = 1.00%
 Airspace Utilization Factor (AUF) = 410 lb/cy
 Remaining Capacity without final and intermediate cover = 191,391 cy

Year	Total Tonnage	Annual C&D Airspace Consumed (cy)	Remaining Permitted Ultimate Capacity (cy)
2018	233	1,136	190,255
2019	482	2,352	187,904
2020	487	2,375	185,528
2021	492	2,399	183,129
2022	497	2,423	180,706
2023	502	2,447	178,259
2024	507	2,472	175,788
2025	512	2,496	173,291
2026	517	2,521	170,770
2027	522	2,547	168,223
2028	527	2,572	165,651
2029	533	2,598	163,053
2030	538	2,624	160,430
2031	543	2,650	157,780
2032	549	2,676	155,103
2033	554	2,703	152,400
2034	560	2,730	149,669
2035	565	2,758	146,912
2036	571	2,785	144,127
2037	577	2,813	141,314
2038	582	2,841	138,473
2039	588	2,870	135,603
2040	594	2,898	132,705
2041	600	2,927	129,777
2042	606	2,957	126,821
2043	612	2,986	123,835
2044	618	3,016	120,819
2045	624	3,046	117,773
2046	631	3,077	114,696
2047	637	3,107	111,589
2048	643	3,138	108,450
2049	650	3,170	105,281
2050	656	3,201	102,079
2051	663	3,234	98,846
2052	669	3,266	95,580
2053	676	3,298	92,281
2054	683	3,331	88,950
2055	690	3,365	85,585
2056	697	3,398	82,187
2057	704	3,432	78,754
2058	711	3,467	75,287
2059	718	3,501	71,786
2060	725	3,536	68,250
2061	732	3,572	64,678
2062	740	3,608	61,070
2063	747	3,644	57,427
2064	754	3,680	53,747
2065	762	3,717	50,030
2066	770	3,754	46,276
2067	777	3,792	42,484
2068	785	3,829	38,655
2069	793	3,868	34,787
2070	801	3,906	30,881
2071	809	3,945	26,935
2072	817	3,985	22,950
2073	825	4,025	18,925
2074	833	4,065	14,860
2075	842	4,106	10,755
2076	850	4,147	6,608
2077	859	4,188	2,420
2078	867	4,230	-1,810
2079	876	4,272	-6,083
2080	885	4,315	-10,398
2081	893	4,358	-14,756
2082	902	4,402	-19,158

<== Capacity reached in 2078

DUBOIS LANDFILL - SOIL ANALYSIS
DECEMBER 14, 2018

VARIABLES

Anticipated Closure Date	1-Jul-78		
Waste-to-Soil Ratio	10	1	Note: 10:1 Assumed based on Superintendent assessment of amount of soil used (November, 2018)
Annual airspace consumed (projected average)	3,200		
Waste received per week	56		
Cover Soil Needed Per Week	5.6		

SOIL REQUIRED

	Area		5-Jul-18
	Square Feet	Acres	
<i>Routine and Intermediate Cover</i>			
Routine Cover	NA	NA	17,511
<i>Final Cover</i>			
Unclassified Soils (30-Inches)	304,077	7.0	28,155 Note: No topsoil included in the cover profile.
<i>Required Totals</i>			
Unclassified			45,667

SOIL AVAILABLE

Unclassified Soil from C&D Cell Excavation	137,000
<i>Total Unclassified Available</i>	137,000

SOIL BALANCE

Unclassified (negative indicates shortfall)	91,333
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**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	%	175,100	14,000.00	Judgement includes clearing, grubbing, construction
2	Construction BMPs (erosion & Sediment Controls)	5	%	175,100	8,800.00	Judgement; includes plan, silt fence, checks, surfacing
3	Minor Road Improvements	1	DAY	2,240	2,240.00	Judgement; includes one heavy piece of equipment and one operator.
					25,040.00	
Site Grading and Associated Earthwork						
4	Grade Intermediate cover	7	ACRE	1,630	11,410.00	Judgement based on similar projects
					11,410.00	
Final Cover						
5	Load, haul, and place final cover soil from on-site stockpile	11,300	CY	5.00	56,500.00	Judgement based on similar projects
					56,500.00	
East Channel Construction						
6	Channel Construction	800	LF	77.00	61,600.00	2012 Dubois Closure Bid
					61,600.00	
Site Reclamation						
7	Revegetate	348,480	SF	0.08	28,440.00	Judgement based on similar projects, includes soil amendments
8	Grade disturbed areas	8	ACRE	1,630.00	13,040.00	HCCD 31 22 16.10 3300; areas disturbed as part of channel construction
					41,480.00	
Miscellaneous						
9	Survey Control and As-Built documentation	1.0	DAY	4,080.00	4,080.00	WDEQ SWG #12
					4,080.00	
ENGINEERING AND CONSTRUCTION MANAGEMENT						
10	General public notification	1	LS	3,880	3,880.00	Judgement
11	Design and Bid Administration	10%	LS	200,100	20,010.00	Judgement, assumes 10% of construction cost
12	Construction Quality Assurance	10%	LS	200,100	20,010.00	Judgement, assumes 10% of construction cost
13	Construction Management	8%	LS	200,100	16,010.00	Judgement, assumes 8% of construction cost
				SUBTOTAL	59,910.00	
SUBTOTAL					260,020	
CONTINGENCY		15%			39,000	
TOTAL CLOSURE COSTS					299,020	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2018 present value unless otherwise noted.
- 2 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	3,570	107,100	Judgement
2	Post-closure site Inspections	30	YR	820	24,600	WDEQ SWG 12
3	Methane Monitoring	30	YR	1,430	42,900	Judgement, based on similar project
4	Groundwater Monitoring	30	YR	11,020	330,600	2014 groundwater monitoring contract
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, \$100 OCDs per day) one per year
6	Petition to terminate post-closure period	1	LS	3,570	3,570	Judgement
7	Methane Probe Abandonment	3	EA	550	1,650	Judgement based on previous experience with probe abandonment
8	Fence Maintenance Costs	3100	LF	13.46	41,740	WDEQ SWG 12
9	Fence Removal Costs	3100	LF	2.24	6,960	WDEQ SWG 12
10	Grounds maintenance	30	YR	1,100	33,000	Judgement; includes routine maintenance, revegetation of bare spots
SUBTOTAL					628,720	
CONTINGENCY				15%	94,310	
TOTAL POST-CLOSURE COSTS					723,030	

ASSUMPTIONS & LIMITATIONS

- 1 Pricing is for 2018 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
Dubols Landfill**

Item No.	Line Item	Est Qty.	Unit *	Unit Price	Extended Price	Description
1	Recordkeeping	5	YR	3,570.00	17,850.00	Judgement
2	Post-closure site Inspections	5	YR	820.00	4,100.00	WDEQ SWG #12, adjusted for inflation
3	Groundwater Monitoring	5	YR	2,240.00	11,200.00	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	1,220.00	6,100.00	
5	Fence Maintenance Costs	2000	LF	2.24	4,490.00	WDEQ SWG #12, adjusted for inflation
6	Petition to terminate post-closure period	1	LS	3,260.00	3,260.00	Judgement
7	Groundwater monitoring well abandonment	6	EA	660.00	3,960.00	Judgement, based on similar projects
8	Fence Removal Costs	2000	LF	0.38	750.00	WDEQ SWG #12, adjusted for inflation
SUBTOTAL					51,710	
CONTINGENCY					7,760	
TOTAL POST-CLOSURE COSTS					59,470	

ASSUMPTIONS & LIMITATIONS

- Pricing is for 2018 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

Fremont County Solid Waste Disposal District
General Information and Operational Milestones (since 2011)

Revision Date: January 8, 2019

General Information: The Fremont County Solid Waste Disposal District (District) was formed in 1978 by the County Commissioners. The District has a Board of Directors made up of nine Board members appointed by the commissioners. The Board terms are three years with no term limit. The District encompasses all of Fremont County and operates the following sites:

- ➔ Landfills: The landfills include the Lander Landfill (municipal solid waste landfill), Sand Draw Landfill (municipal solid waste landfill), Dubois Landfill (construction and demolition waste landfill), and the Shoshoni Landfill (construction and demolition waste landfill).
- ➔ Transfer Stations: The standard transfer stations include the Lander Transfer Station (located at the Lander Landfill), Riverton Transfer Station, and the Dubois Transfer Station.
- ➔ Recycling Drop-Offs: The primary free Recycling Drop-Offs are located at the Lander Landfill, Riverton Transfer Station, and the Dubois Landfill.
- ➔ Rural Transfer Stations: The rural transfer station sites are located at/near Lysite, Jeffrey City, Atlantic City, Pavillion, Missouri Valley, and Shoshoni.
- ➔ Contracted Rural Transfer Stations: The contracted rural transfer stations are all located on the Wind River Indian Reservation and are located at/near Fort Washakie, Ethete, Crowheart, and Arapahoe.

Prior to 2009, the District's only revenue stream included the 3-mil allocation from property taxes, oil and gas royalties, and auto taxes. In 2009, the District implemented a disposal fee paid for all waste disposed of. The primary disposal fee is \$80 per ton for MSW. There are other specialty waste fees as defined within the District's Rules and Regulations.

Detailed information on our recycling and waste diversion programs, specific site schedules, Board meeting documents, job postings, and other pertinent District information can be located on our website trashmatters.org.

Milestones:

1. Financial Standing: In late 2011, the FCSWDD financial reserve established for closure, post-closure, and capital needs was \$0.00. The annual operating budget has ranged from \$6 million to \$7 million depending on where we are with the oil and gas values. Through reduced spending, implemented efficiencies, watchful expenditures, and planning, the FCSWDD reserves are now approximately \$14.6 million.
2. Implemented Operational Modifications:
 - a. **2012:**
 - i. The FCSWDD LHLV transfer station operational hours, staffing, and fee structure was adjusted to ensure fee payment, appropriate waste disposal, and regulations enforced.

b. 2013:

- i. Implemented use of a waste compactor at the Sand Draw Landfill to better manage the construction and demolition debris waste stream saving the District over \$80,000 annually in airspace.
- ii. Negotiated an alternative contract with the Wind River Indian Reservation Joint Business Council, placing the management and responsibility back on the Tribes. This operational change saved the District over \$125,000 annually.
- iii. The District's Shoshoni Landfill was qualified into the State of Wyoming's Cease and Transfer Program allowing for up to 75% of the closure costs to be paid by grant (i.e. approximately \$1 million).

c. 2014:

- i. Reduction from 45 FTE's (through attrition) down to 26 FTE's between 2012 and 2014. This change alone resulted in annual savings of over \$500,000.
- ii. Reduction in hours of operation from 7-days per week at the primary sites (i.e. Lander, Riverton, and Sand Draw) down to 5-days per week. The savings resulting from this are demonstrated above.
- iii. Reduction in hours of operation from 5-days per week down to 3 partial days per week at the Dubois facility. The savings resulting from this are demonstrated above.
- iv. Modification in the closure designs for our Lander and Sand Draw Landfills from standard synthetic caps to an evaporative-transpiration cap. The savings associated with this change are over \$500,000 per site and allowed for an increase in the landfill life by allowing for additional airspace creating additional landfill space with a value of over \$250,000 each site.
- v. Transition from baling the waste stream over to in-place waste compaction with waste compaction equipment. This change has allowed for over 50% more waste to be placed into the same footprint as was prior with the baled waste.

d. 2015:

- i. Began annual Household Hazardous Waste Cleanup Events, working to provide an annual service at no additional cost to all residents of Fremont County where they can properly dispose of hazardous-type wastes, chemicals, and unknowns.
- ii. Development and implementation of a Safety Incentive Program that has now led to 3 ½-years without a single lost-time accident in the Riverton area and 2 years 11 months without a single lost-time accident in the Lander area.
- iii. Restructured the staff hierarchy, removing the need of an Assistant Superintendent and replaced with two Crew Chiefs assisted by Lead Operators, saving the District over \$80,000 annually.
- iv. Developed an agreement with the City of Lander to create a cost-effective leachate disposal plan.
- v. Implementation of a 20-mile "acceptable travel distance" policy that led to the closure of the Hudson Transfer Station.
- vi. Implementation of a health benefit (i.e. health insurance, dental insurance, vision insurance, short-term disability, long-term disability, and life insurance)

with a high deductible, HRA, and HSA component that brought the plan to a higher level than that offered by the county, but with significant savings (i.e. over \$70,000 in the first year).

e. 2016:

- i. Transitioned processing of the District's recycling from the Lander and Riverton Transfer Stations over to only being baled at the Riverton Transfer Stations. This change has saved the District over \$30,000 annually in electrical costs.
- ii. Negotiated alternative freight options for the District's recycling and electronic waste. This change saves the District over \$10,000 annually.

f. 2017:

- i. Worked with the WDEQ Administrative staff to remove an Administrative Order that required the Lander Landfill to cease acceptance of waste in 2023 to allow for a total landfill closure in 2024. The landfill will now be allowed to be filled to maximum design capacity. This change along with the changes in managing the waste streams will keep the landfill open an additional four to six years. This landfill accepts approximately \$3 million worth of waste annually.
- ii. Permitted, purchased and implemented an alternative daily landfill cover system (i.e. a hydro-application slurry) at the Lander Landfill that avoids the need to apply 6-inches of cover soils daily. This modification saves the operation of heavy equipment daily and the landfill airspace associated with the 6-inches of cover soils. This alternative cover system should add over two years of additional airspace to the landfill. This landfill accepts approximately \$3 million worth of waste annually.
- iii. The District purchased a used tanker trailer and took over the previously contracted leachate hauling from the Lander Landfill. This change was incorporated into existing staffing responsibilities and existing semi-tractor use, saving the District over \$80,000 in the first full year.

g. 2018:

- i. Maintained focus and measurement on the District's airspace utilization (i.e. waste density) has saved over three year's-worth of airspace in the Lander Landfill. This landfill accepts approximately \$3 million worth of waste annually.
- ii. The District took the lead with the regulatory community and demolition planning for the Shoshoni Downtown buildings deemed as a threat to human health and safety. The demolition project, landfilling, and reporting was a success. Partners in this project included the Town of Shoshoni, the Shoshoni Police Department, WYDOT, the City of Riverton, the City of Lander, and Road & Bridge.
- iii. Worked with the Wyoming Life Resource Center to direct asbestos containing-ACM materials (non-friable) to the Shoshoni Landfill. This will bring the landfill to final waste elevations prior to closure. Between the negotiated rate for the

ACM and the avoided soil fill needs the site should generate and save an additional \$1 million.

- iv. Permitted minor grade changes at the Lander Landfill to allow for an additional one year's-worth of airspace. This landfill accepts approximately \$3 million worth of waste annually.
- v. The maintenance staffing program was redesigned in a manner that hired one well-trained mechanic to serve in the place of the previous minimally-trained two mechanics, saving the District over \$101,000 per year in wages.
- vi. Renegotiation of the leachate disposal rates with the City of Lander has allowed for over \$5,000 per year in savings.
- vii. Installation of a new 20,000 gallon underground storage tank system at the Lander Landfill that provides for additional onsite storage of our collected contaminated groundwaters.