

# Gallatin Solid Waste Management District

## Annual Report



July 1, 2013 – June 30, 2014



The Gallatin Solid Waste Management District Manages the Logan Landfill and the Bozeman Convenience Site



The Logan Landfill is a modern environmentally friendly regulated state-of-the-art Class II landfill.



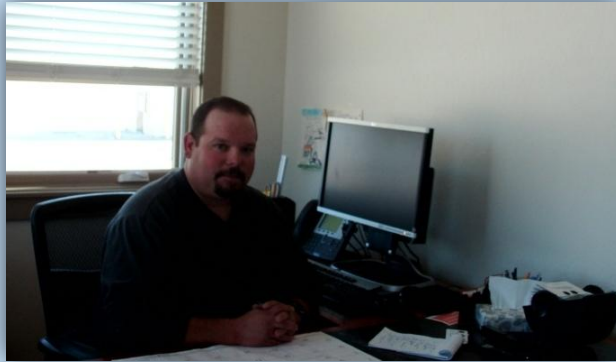
Internal Programs include \*Special Wastes\*Environmental Monitoring\*Recycling\*Education and Outreach\*

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# A Letter from the District Manager



I am pleased to present this year's Annual Report for the Gallatin Solid Waste Management District prepared by Dawn Chretien and the Gallatin Solid Waste Management District staff. This year's annual report provides a summary of the past fiscal year and provides an analysis of the programs offered by the Gallatin Solid Waste Management District. This report covers the time period from July 1, 2013 to June 30, 2014.

During the past year, the District continued to offer a wide variety of solid waste solutions. This included the operation of the Logan Landfill, as well as, the many services the District has been offering throughout Gallatin County. The Household Hazardous Waste program increased in popularity and diverted a wide range of hazardous materials from the landfill. The District's e-waste and fluorescent bulb recycling programs are continuing to provide additional waste diversion options at the Logan Landfill. The District's eighteen recycling sites, throughout Gallatin County, provide expanded recycling options for the District residents. The clean wood and composting waste diversion programs are developing a valuable resource for erosion control and reclamation projects at the Logan Landfill.

Notable capital improvements for fiscal year 2014, included the initial construction of a Wash Bay at the shop. The Wash Bay will ensure regulatory compliance and assist with equipment maintenance and safety when completed in Fiscal Year 2015. The District purchased a new CAT 329EL Excavator and a new CAT 730C Haul Truck for landfill operations and projects. The District also developed and implemented the reclamation and improvement plan for the Logan Springs Ranch. The District planted 310 acres of winter wheat to control weeds and return the land to agriculture production. The reclamation and improvement of the Logan Springs Ranch is a key component for the proposed land exchange with the DNRC.

In the next year, the District is planning to construct the proposed compost expansion area and continue the development of a Soil Vapor Extraction system with MTDEQ and Great West Engineering. The District is planning to purchase a new dozer for landfill operations and projects. The District will continue to implement the Logan Springs Ranch improvement project to facilitate completion of the proposed land swap with the DNRC. The completion of the proposed land swap is critical for determining the future development and expansion of the Logan Landfill and the Gallatin Solid Waste Management District.

The Gallatin Solid Waste Management District will continue to provide not only essential services, but also offer alternate disposal options under our umbrella of solid waste management. The District's hardworking, dedicated, and versatile staff, with the input and oversight of the Solid Waste Board, continues to achieve lasting improvements while providing solid waste solutions for the residents of Gallatin County. With the current and projected growth of Gallatin County, the District will be instrumental in providing essential solid waste services and remain a valuable asset for Gallatin County.

Sincerely,

Jim Simon, District Manager  
Gallatin Solid Waste Management District



# Gallatin Solid Waste Management District

The Gallatin Solid Waste Management District consists of Gallatin County and the Cities of Belgrade, Bozeman, Manhattan, and Three Forks. The District operates as an enterprise fund. The values and operating principles are customer focus that is responsive, prompt, compassionate and provides quality service; Accountability for being responsible and cost effective in the use of public resources; Teamwork that promotes creative cooperation; Communication that is open and honest with sharing of information and ideas and; Professionalism in everything we do by being innovative, qualified, honest, full of integrity, and personal excellence.

## Gallatin Solid Waste Management District

### Mission Statement

**The purpose of the Gallatin Solid Waste Management District is: to provide constituents with cost efficient solid waste services; to provide for the balanced consideration and representation of the diverse views and issues regarding solid waste management; to advocate for the health, safety and welfare of the residents; to manage the processing, reclaiming, storing, transporting, or disposing of waste in ways that protect the ecology of lands in the District; to identify goals, policies and procedures that will aid local jurisdictions in meeting solid waste reduction and recycling goals.**

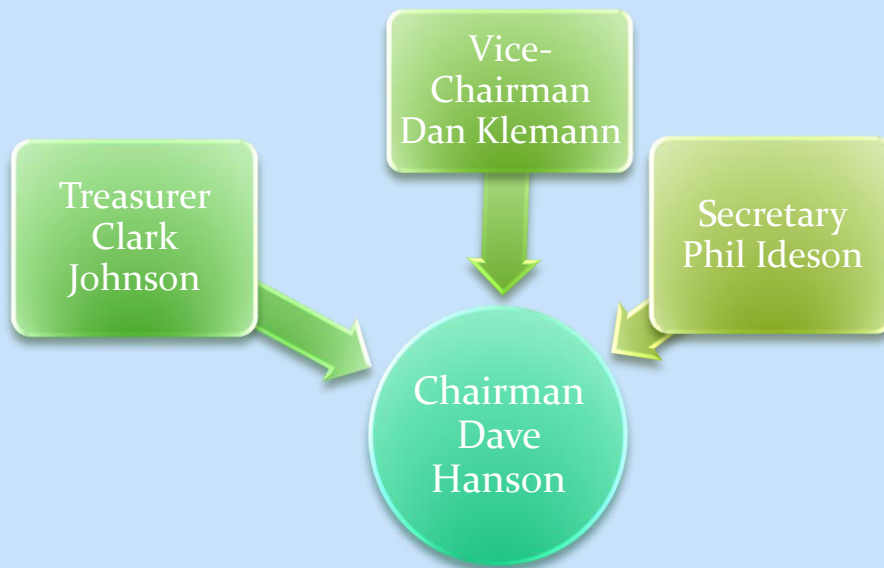
The Gallatin Solid Waste Management Board consists of representatives from the Cities of Belgrade, Bozeman, Three Forks, and Manhattan. Two additional seats are occupied by Members-at-large, and the remaining seat is occupied by a County Commissioner.

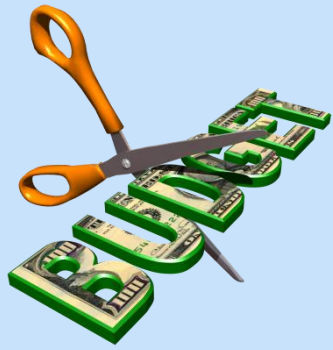


The Board of Directors for Fiscal Year 2013 - 2014 are (pictured left to right): Clark Johnson, City of Manhattan; R. Stephen White, Gallatin County Commissioner, Commission District #3; Dave Hanson, City of Three Forks; Dan Klemann, Member at Large; Phil Ideson, Member at Large; Kevin Handelin, City of Bozeman. Not pictured Deborah Neidermeyer, City of Belgrade (10/15/2013-3/26/2014); No Belgrade Representative from 4/1/2014 to 6/30/2014.

# Gallatin Solid Waste Management District

## Board Officers





**Table 1**

***Gallatin Solid Waste Management District Budgets 3-Year Comparison  
Final Budget Approved to Actual Budget Expended Fiscal Years 2012, 2013, 2014***

Object of Expenditures	Final Budget Approved FY 2012	Actual Budget Expended FY 2012	Final Budget Approved FY 2013	Actual Budget Expended FY 2013	Final Budget Approved FY 2014	Actual Budget Expended FY 2014
Personnel	\$ 887,796	\$ 747,332	\$ 950,965	\$ 844,907	\$ 963,853	\$ 843,178
Operations	2,454,719	2,109,544	2,081,529	1,852,711	2,077,544	1,949,371
Debt Service	938,199	938,199	392,556	380,491	134,060	134,060
Capital Outlay	1,112,500	500,625	1,165,700	600,332	5,982,606	1,495,652
Transfers Out	-----	-----	-----	-----	-----	-----
Reserves	-----	-----	-----	-----	-----	-----
<b>Total</b>	<b>\$ 5,393,214</b>	<b>\$ 4,295,700</b>	<b>\$ 4,590,750</b>	<b>\$ 3,678,441</b>	<b>\$ 9,158,063</b>	<b>\$ 4,422,261</b>
<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014</b>		
\$5,393,214.00		\$4,590,750.00		\$9,158,063.00		
\$4,295,700.00		\$3,678,441.00		\$4,422,261.00		
\$1,097,514.00 Under Budget		\$912,309 Under Budget		\$4,735,802.00 Under Budget		



# ***Gallatin Solid Waste Management District Administration***

Daily operations of the Gallatin Solid Waste Management District are administered by professional staff,  
headquartered at the

Logan Landfill  
Gallatin Solid Waste Management District  
10585 Two Dog Road  
P.O. Box 461  
Three Forks, Montana 59752  
406.284.4029 or 406.582.2495  
Fax: 406.582.2491

Website

<http://www.gallatin.mt.gov/DISTRICT>



**Susan Dellinger, Accountant**



**Dawn Chretien, Office Manager**



# Gallatin Solid Waste Management District Operations



Logan Landfill Employee's quote, "It's a bird sanctuary with a garbage problem."

# *Gallatin Solid Waste Management District Operators Logan Landfill*



**(Left to Right) Jesse Ziegler, Operator; Scott Brenden, Site Foreman/Operator; Ray Harrison, Operator/HHW Specialist; Mitch Davies, Operator (Not Pictured, Jesse Hermanson, Operator)**



# Gallatin Solid Waste Management District Shop



Mike SeeFried  
(Retired February 2014)



Scott Carley  
(March 2014)

Marvin Burrell  
(September 2013)

# *Gallatin Solid Waste Management District*

## *Logan Landfill*



## *Scalehouse Operators Logan Landfill*



Heather  
Bernard  
(February 2014)



Myldred Stine

Janet Lane (not pictured)  
Resigned February 2014



# *Gallatin Solid Waste Management District*

*Bozeman Convenience Site*

*Scale Operator*

*Bozeman Convenience Site*

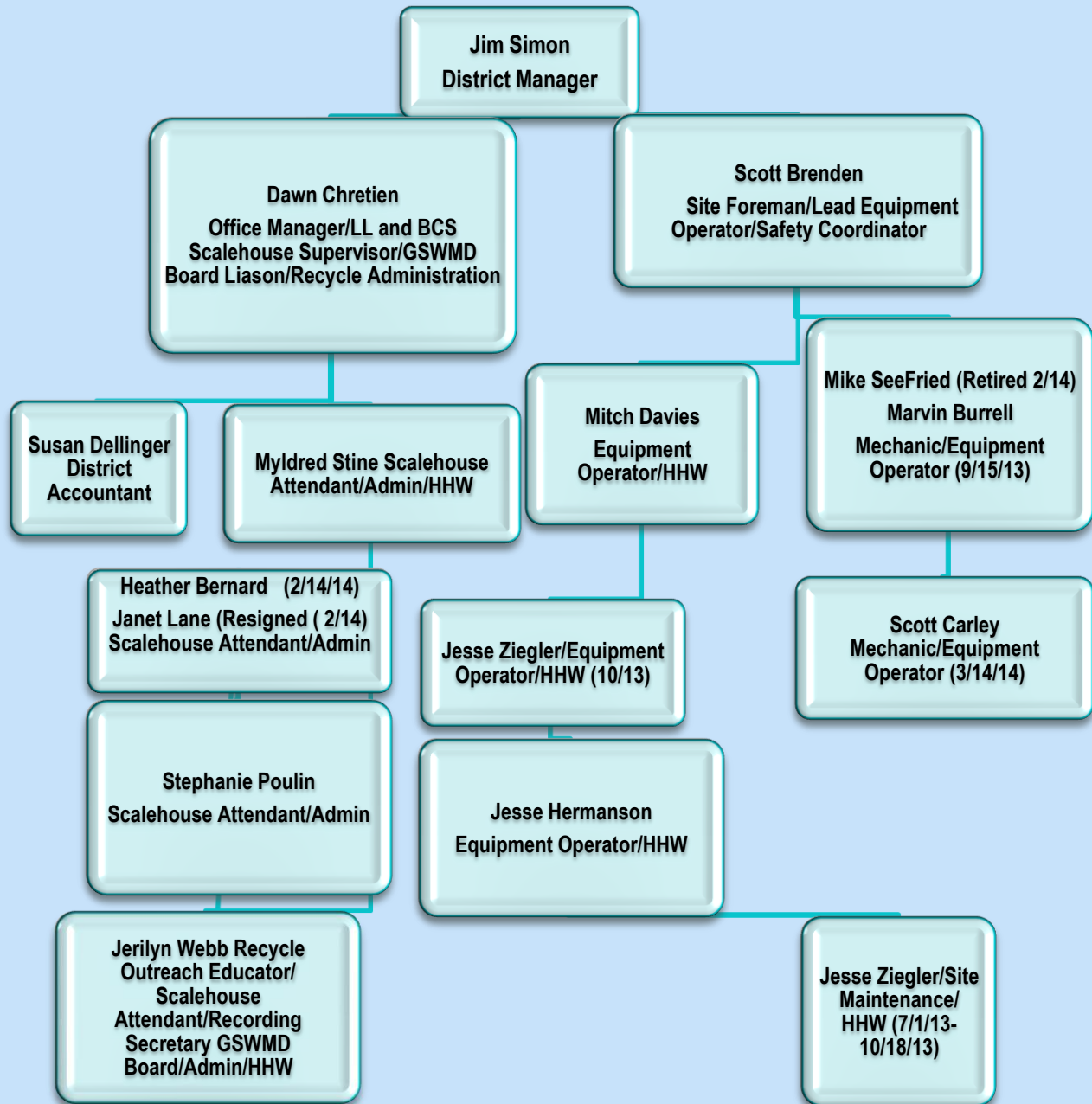


Stephanie Poulin



# Gallatin Solid Waste Management District

## Organizational Chart



# *Logan Landfill Operations*

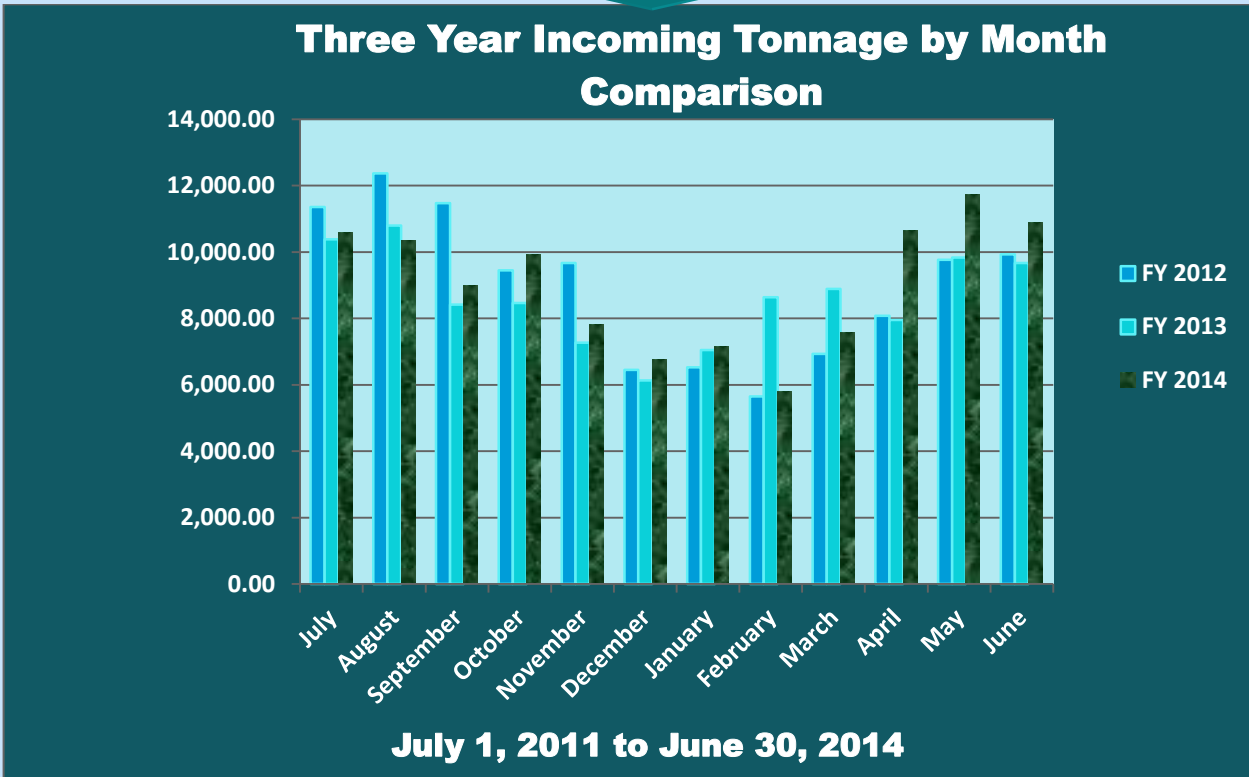
## *District Tonnages*

Between July 1, 2013, and June 30, 2014, the total waste disposed of at the Logan Landfill was 108,212.55 tons. The seven primary components of the waste stream included approximately 73,084.79 (68%) tons of municipal solid waste, of which, 68,905.88 (94%) tons were disposed of by commercial carriers and 4,178.91 (6%) tons by the general public. Light construction waste disposed of totaled 8,770.70 (8%) tons, of which, commercial carriers disposed of approximately 8,141.21 (93%) tons and 629.49 (7%) tons by the general public. Heavy construction tonnage totaled 201.56 (<1%) tons, of which, 160.76 (80%) tons was from commercial carriers and 40.8 (20%) tons from the general public. Class IV totaled 21,171.30 (20%) tons, of which, 20,802.23 (98%) from commercial carriers and 369.07 (2%) tons from the general public. Compost collected totaled 2,931.81 (3%) tons, of which, 2,784.01 (95%) came from commercial carriers and 147.8 (5%) tons were from the general public. E-waste disposed of totaled 142.56 tons (<1%), of which, 100.17 (70%) came from commercial carriers and 42.39 (30%) came from the general public. The remainder of the miscellaneous waste stream components disposed of totaled 1,909.83 tons (2%), of which 1,238.67 (65%) came from commercial carriers and 671.16 (35%) came from the general public (Table 2: Tonnages & Components). This fiscal year tonnages were up 4,739.03 tons from the previous fiscal year of 103,473.52 tons.

**Table 2 Revenue & Components July 1, 2013 – June 30, 2014**

Primary Components	Total Tons	% Tons	Tons Commercial	% Tons	Tons Public	% Tons	Total % of Commercial & Public Tonnages
Municipal Solid Waste (MSW)	73,084.79	68%	68,905.88	94%	4,178.91	6%	100%
Light Construction	8,770.70	8%	8,141.21	93%	629.49	7%	100%
Heavy Construction	201.56	<1%	160.76	80%	40.80	20%	100%
Class IV	21,171.30	20%	20,802.23	98%	369.07	2%	100%
Compost	2,931.81	3%	2,784.01	95%	147.80	5%	100%
E-Waste	142.56	<1%	100.17	70%	42.39	30%	100%
Miscellaneous	1,909.83	2%	1,238.67	65%	671.16	35%	100%
<b>Total</b>	<b>108,212.55</b>	<b>100%</b>	<b>102,132.93</b>	<b>94%</b>	<b>6,079.62</b>	<b>6%</b>	<b>100%</b>

# Graph 1

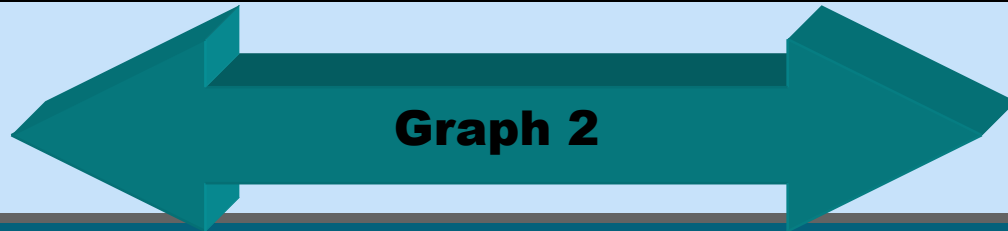


The Revenue from the tipping fees at the Logan Landfill between July 1, 2013, and June 30, 2014, was \$3,489,632.99. The seven primary components of the revenue collected are municipal solid waste totaled \$1,997,663 (57%) of the waste stream, of which, \$1,853,522 (93%) came from commercial carriers and \$144,141 (7%) from the general public. Light construction totaled \$365,797 (11%) of the waste stream, of which, \$335,301 (92%) came from commercial carriers and \$30,496 (8%) came from the general public. Heavy construction totaled \$11,688 (<1%) of the waste stream, of which, \$9,323 (80%) came from commercial carriers and \$2,365 (20%) came from the general public. Class IV totaled \$1,015,912 (29%) of the waste stream, of which, \$998,416 (98%) came from commercial carriers and \$17,496 (2%) came from the general public. Compost earned \$21,872 (1%) of the waste stream, of which, \$14,862 (68%) was from commercial carriers and \$7,010 (32%) came from the general public. E-waste collected totaled \$6,384 (<1%) of the waste stream, of which \$3,978 (62%) was from commercial carriers, and \$2,406 (38%) was from the general public. The remainder of the revenue collected from miscellaneous fees totaled approximately \$70,316.99 (2%) of the waste stream, of which, \$27,823.99 (40%) came from commercial carriers and \$42,493 (60%) came from the general public (Table 3: Revenue & Components). The revenue increased \$237,283.80 from the last fiscal year's revenue of \$3,252,349.19 to this fiscal year's revenue of \$3,489,632.99.

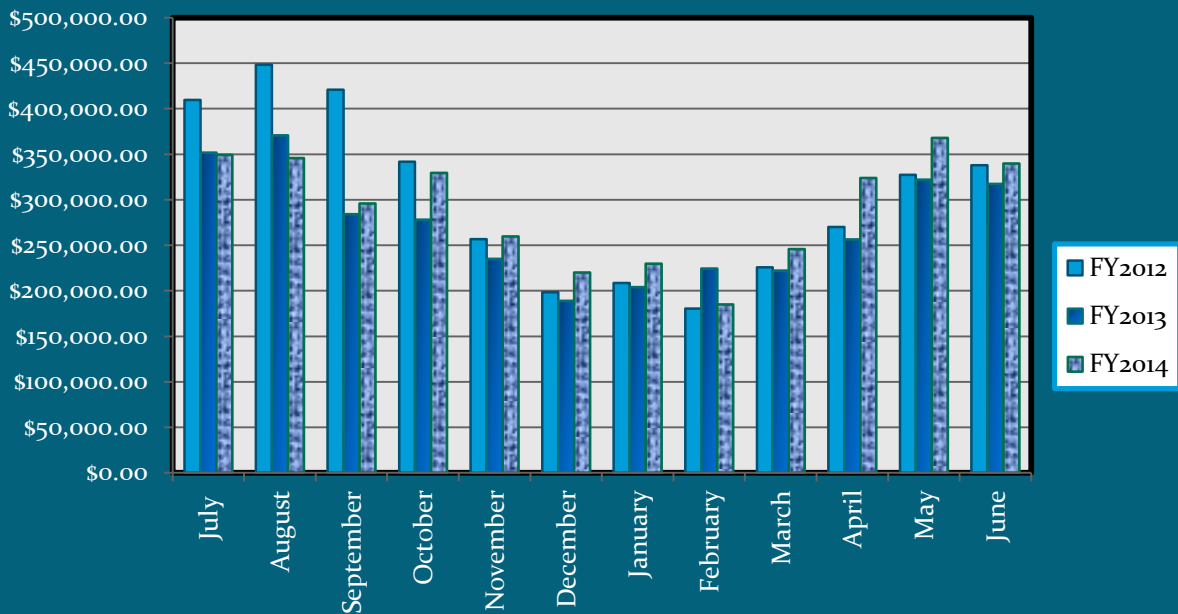


**Table 3 Revenue & Components July 1, 2013 to June 30, 2014**

Primary Components	Total Revenue	% Comp	Revenue Commercial Customers	% Comp	Revenue General Public	% Comp	Total % Commercial & Public Revenue
Municipal Solid Waste (MSW)	\$1,997,663.00	57%	\$1,853,522.00	93%	\$144,141.00	7%	100%
Light Construction	\$365,797.00	11%	\$335,301.00	92%	\$30,496.00	8%	100%
Heavy Construction	\$11,688.00	<1%	\$9,323.00	80%	\$2,365.00	20%	100%
Class IV	\$1,015,912.00	29%	\$998,416.00	98%	\$17,496.00	2%	100%
Compost	\$21,872.00	1%	\$14,862.00	68%	\$7,010.00	32%	100%
E-Waste	\$6,384.00	<1%	\$3,978.00	62%	\$2,406.00	38%	100%
Miscellaneous	\$70,316.99	2%	\$27,823.99	40%	\$42,493.00	60%	100%
<b>Total</b>	<b>\$3,489,632.99</b>	<b>100%</b>	<b>\$3,243,225.99</b>	<b>93%</b>	<b>\$246,407.00</b>	<b>7%</b>	<b>100%</b>



**Three Year Revenue by Month Comparison**



**FY 2012 - FY 2014**

# *Performance at the Logan Landfill*

On March 20, 2014, Great West Engineering, Inc. the engineering company of record, conducted a GPS topographic survey to estimate the remaining life of the landfill and evaluate the landfill performance.

## *Class II Waste Area Performance Evaluation (Phases 2 & 3)*

Topographic information from the field survey was used to generate a computer model and contour map of the landfill. This model was then compared to previous topographic surveys to evaluate the landfill performance over the period. Table 4 shows the Phase 2 cell performance calculated with GPS surveys over each period the Phase 2 cell was open and the total since Great West Engineering was involved in the landfill operation. Portions of the Phase 2 cell closed in 2013, and did not receive any waste since December of 2011. The Phase 2 cell has not been surveyed since December 2011. The Phase 2 cell was surveyed for the purposes of record drawings that were submitted to the Montana Department of Environmental Quality.

Table 5 shows Phase 3 cell performance and the overall average of that cell. For three time periods the Phase 3 cell did not receive any waste due primarily to finish filling the Phase 2 cell. Table 6 shows the overall landfill performance for Phases 2 and 3, and the overall landfill performance for Phases 2 and 3 combined.

The overall space utilization for the Phase 3 cell over the last period as measured by the volume per ton ratio was 1.58 CY/Ton. This was 12.7% less air space utilization than the last time period. The overall performance of the landfill is measured by the volume per ton ratio. The two components which directly impact the overall landfill performance are the compacted waste density and the waste-to-soil ratio.

The site achieved a compacted waste density of 1,495 pounds per cubic yard over the last period. The landfill staff are commended for the continued excellent compaction. The industry standard for compacted waste density at landfills which operate 826-equivalent compactors is 1,200 pound per cubic yard. The District staff is far exceeding that metric with the operation. This high compaction is due to dedicated and consistent application of compaction techniques in conjunction with quality equipment and operators. The District will continue with the compaction techniques it currently uses on the site.

The overall waste-to-soil ratio for the time period was 5.6:1. This is 41% decrease in soil usage over the previous period. The high waste to soil ratio demonstrates the effectiveness of the alternative daily cover. The District will continue to utilize the approved alternative daily cover as often as possible in lieu of soil.

Great West Engineering did not survey Phase 2 cell due to only 4.8% of the total waste was placed in the cell. The Phase 2 cell will be surveyed during the next performance evaluation survey.

In summary, the industry standard for landfills this size is a compacted waste density of 1,200 pound per cubic yard and a 3:1 waste to soil ratio which results in an overall volume per ton performance of 2.22 cubic yards per ton. The overall performance measured by GPS over this last period was 29% better than standard landfill performance metrics. The landfill staff are commended for obtaining this outstanding waste density and overall landfill performance which insures the landfill's life is maintained, and in this case, actually extended via excellent performance criteria.

**Table 4  
Logan Landfill Municipal Solid Waste Phase 2 Cell  
Performance Analysis Summary**

	5/18/05 510/15/05	10/16/05 3/30/06	3/31/06 11/08/06	11/08/06 10/29/07	10/29/07 8/12/08	8/12/08 4/16/09
<b>Total Fill Volume</b>	41,836 CY	56,005 CY	123,015 CY	218,970 CY	57,555 CY	68,969 CY
<b>Soil Volume</b>	0	0	18,732 CY	38,500 CY	9,844 CY	17,789 CY
<b>Waste to Soil Ratio</b>	NA	NA	5.6:1	4.7:1	4.85:1	2.88:1
<b>Tonnage Accepted</b>	28,720 Tons	43,646 Tons	77,587 Tons	116,490 Tons	31,498 Tons	36,893 Tons
<b>Compacted Waste Density</b>	1,373 LB/CY	1,559 LB/CY	1,488 LB/CY	1,291 LB/CY	1,320 LB/CY	1,442 LB/CY
<b>Volume Per Ton Ratio</b>	1.46 CY/Ton	1.28 CY/Ton	1.59 CY/Ton	1.88 CY/Ton	1.83 CY/Ton	1.87 CY/Ton
	4/17/09 11/25/09	11/26/09 6/28/2010	6/28/2010 4/11/2011	4/12/2011 12/8/2011		<b>Phase 2 Total</b>
<b>Total Fill Volume</b>	67,018 CY	61,328 CY	81,190 CY	66,261 CY		842,147 CY
<b>Soil Volume</b>	14,634 CY	10,526 CY	15,014 CY	9,738 CY		134,777 CY
<b>Waste to Soil Ratio</b>	3.58:1	4.83:1	4.41:1	5.80:1		5.25:1
<b>Tonnage Accepted</b>	41,560 Tons	42,254 Tons	60,187 Tons	53,484 Tons		532,319 Tons
<b>Compacted Waste Density</b>	1,587 LB/CY	1,663 LB/CY	1,819 LB/CY	1,892 LB/ CY		1,472 LB/CY
<b>Volume Per Ton Ratio</b>	1.61 CY/Ton	1.45 CY/Ton	1.35 CY/Ton	1.24 CY/Ton		1.58 CY/Ton



**Table 5  
Logan Landfill Municipal Solid Waste Phase 3 Cell  
Performance Analysis Summary**

	10/29/07 8/12/08	8/12/08 4/16/09	4/17/09 11/25/09	11/26/09 6/28/2010	6/28/2010 4/11/2011	4/12/2011 12/8/2011
<b>Total Fill Volume</b>	100,065 CY	43,687 CY	24,465 CY	0	0	0
<b>Soil Volume</b>	27,002 CY	14,484 CY	3,708 CY	0	0	0
<b>Waste to Soil Ratio</b>	2.71:1	2.02:1	5.6:1	NA	NA	NA
<b>Tonnage Accepted</b>	52,897 Tons	25,876 Tons	13,458 Tons	0 Tons	0 Tons	0 Tons
<b>Compacted Waste Density</b>	1,448 LB/CY	1,772 LB/CY	1,297 LB/CY	NA	NA	NA
<b>Volume Per Ton Ratio</b>	1.89 CY/Ton	1.69 CY/Ton	1.82 CY/Ton	NA	NA	NA
	<b>12/9/11 10/10/12</b>	<b>10/11/12 3/20/14</b>		<b>Phase 3 Total</b>		
<b>Total Fill Volume</b>	118,087 CY	181,494 CY		467,798 CY		
<b>Soil Volume</b>	23,759 CY	27,506 CY		96,459 CY		
<b>Waste to Soil Ratio</b>	3.97:1	5.60:1		3.85:1		
<b>Tonnage Accepted</b>	65,028 Tons	115,075 Tons		272,334 Tons		
<b>Compacted Waste Density</b>	1,379 LB/Ton	1,495 LB/Ton		1,467 LB/CY		
<b>Volume Per Ton Ratio</b>	1.82 CY/Ton	1.58 CY/Ton		1.72 CY/Ton		



**Table 6 Logan Landfill  
Municipal Solid Waste Phase 2 and 3 Cells  
Performance Analysis Summary**

	Phase 2 Total	Phase 3 Total to Date	Phases 2 & 3 Total to Date
Total Fill Volume	842,147 CY	467,798 CY	1,309,945 CY
Soil Volume	134,777 CY	96,459 CY	231,236 CY
Waste to Soil Ratio	5.25:1	3.85:1	4.66:1
Tonnage Accepted	532,319 Tons	272,334 Tons	804,653 Tons
Compacted Waste Density	1,472 LB/CY	1,467 LB/CY	1,492 LB/CY
Volume Per Ton Ratio	1.58 CY/Ton	1.72 CY/Ton	1.63 CY/Ton



# Class IV Area Performance Evaluation



Great West measured Class IV performance since the Class IV area opened in 2009. Class IV materials are much more difficult to obtain high compaction levels because of the nature of the waste. Industry standard metrics for Class IV landfills are 750 pounds per cubic yard compacted waste density and a waste-to-soil ratio of 6:1. This results in an overall volume per ton ratio of 3.1 cubic yards per ton. Table 7 shows that the landfill is exceeding industry metrics the last four time periods with the Class IV operation.

**Table 7 Landfill Class IV Performance Analysis**

	11/25/2009	7/7/2010	4/14/2011	12/8/2011	10/10/2012	3/20/2014	Total
<b>Total Fill Volume</b>	33,767 CY	20,768 CY	46,752 CY	51,699 CY	28,538 CY	69,737 CY	251,261 CY
<b>Soil Volume</b>	3,780 CY	2,285 CY	6,432 CY	6,977 CY	6,225 CY	13,739 CY	39,438 CY
<b>Waste to Soil Ratio</b>	7.93:1	8.09:1	6.27:1	6.40:1	3.58:1	4:08:1	5.37:1
<b>Tonnage Accepted</b>	14,557 T	9,175 T	29,381 T	27,577 T	14,622 T	25,957 T	121,269 T
<b>Compacted Waste Density</b>	970 LB/CY	993 LB/CY	1,457 LB/CY	1,233 LB/CY	1,310 LB/CY	927 LB/CY	1,145 LB/CY
<b>Volume Per Ton Ratio</b>	2.32 CY/T	2.26 CY/T	1.59 CY/T	1.87 CY/T	1.95 CY/T	2.69 CY/T	2.07 CY/T



# Life Estimates

The performance data, tonnage and the Landfill Master Plan were used to estimate the remaining life of Phase 3 and the overall landfill. To estimate the remaining life of Phase 3, the first step the engineer did was to calculate the remaining air space in the phase. The computer generated land surface model from the March 20, 2014, survey was compared to the interim fill plan for Phase 3 to determine the remaining air space. Phase 2 has been closed.

In order to estimate the remaining life of Phase 3, the engineer needed to project the waste generation throughout the remaining life of this cell. Currently, 105,000 Tons per year is the best estimate of the annual tonnage for projections on remaining site life.

The total air space includes the final cover for the portion of Phase 3 fill which reaches the final proposed elevations, and subtracted out of the air space available for waste and daily intermediate soil cover. The overall performance of Phases 2 and 3 is the best estimate of how much daily and intermediate cover will be utilized at the site. However, it is critical the District continue to use alternative daily cover (ADC) to the extent possible in order to minimize the air space usage of the landfill. The engineer estimated that the landfill will be able to utilize soil long term at a 4:1 waste to soil ratio. The estimated daily and intermediate soil cover usage is then subtracted from the available air space to determine the volume available for waste.

The last variable to determine is the compacted waste density. The landfill averaged 1,495 LB/CY over the last period. The industry standard for compacted waste density for a landfill of this size with an 826 equivalent compactor is 1,200 LB/CY. However, it appears from the last eight periods that the District should be able to consistently achieve waste densities of 1,300 LB/CY and above. The landfill staff does an excellent job of placing the waste in thin lifts and compacting the waste with multiple equipment passes in both directions. For the basis of these life estimates, the engineer used a 1,350 LB/CY waste density. The landfill staff has proven that they can achieve this density consistently.

The life estimate analysis is summarized in Table 8. The estimates assume there will be no large "one-time" disposal projects. An example would be a large hail storm or earthquake generating a great deal of construction and demolition wastes. The capacity estimate also assumes that the District will not expand its service area during the remaining landfill life. If the District does expand its service area in the future, the life estimate would need to be updated. The ultimate life of the site will be highly dependent on the waste tonnage received at the site and the landfill performance. If the tonnage increases over this estimate or the landfill performance drops, the District will have less life than predicted.

In September 2010, an Addendum to the Landfill Master Plan was designed to include the Class IV Expansion. During this Master Plan update, a new life estimate was developed. Table 8 uses the updated Master Plan numbers to determine life projection estimates. The volumes used to develop Table 8 were calculated using CAD applications.

Based on the waste streams received this last time period, it was estimated that 82% of the waste stream went into the Phase 3 cell, and the other 18% of the waste was diverted into the Class IV area. On average, the Class IV area receives approximately 25% of the waste and the Class II areas (Phase 3) receive approximately 75% of the waste entering the landfill. Therefore, the Phase 3 life was estimated using 75% of 105,000 Tons per year and 25% of 105,000 Tons per year for the Class IV life estimates. The life of each area was calculated and is shown in Table 8. The life estimates for the waste accepted in Phase 3 shown in Table 8 are based on 78,750 Tons per year waste, with a 1,350 LB/CY compacted waste density, 4:1 soil-to-waste ratio and an overall volume per ton ratio of 1.85 CY/Ton. The life estimates for the waste accepted in the Class IV area shown in Table 8 are based on 26,250 Tons

per year waste, with a 1,000 LB/CY compacted waste density and 7:1 soil-to-waste ratio. The life of Phase 3 is based on 78,750 Tons per year for 5.5 years while the Class IV is accepting waste. Once the Class IV has reached full capacity, Phase 3 will accept Class II and Class IV waste. Once Phase 3 accepts both waste streams at 105,000 Tons per year, Phase 3 will have an additional 0.5 years of life. The total life of Phase 3 is 6 years concurrent with the placement of waste in the Class IV cell. Phase 4 will have 7.3 years of life at 105,000 Tons per year. The total life of the landfill is 13.3 years.

**Table 8  
Logan Landfill (Gallatin County)  
Life Projection Estimates (March 2014)**

<b>Class IV Area (Based on 26,250 Tons per Year)</b>	<b>5.5 years</b>
<b>Phase 3 Life (Based on 78,750 Tons per Year for 5.5 Years, then 105,000 Tons per Year for the Remaining Volume)</b>	<b>6 years</b>
<b>Total Life (Based on 105,000 Tons per Year)</b>	<b>13.3 years</b>

## *Closure Work at the Logan Landfill*



Great West Engineering prepared updated information concerning the estimated closure and post-closure costs for the landfill. These costs were developed to determine what the District's financial assurance requirements with the Montana Department of Environmental Quality (MDEQ) will be for the upcoming year.

Three areas are covered: (1) life of site; (2) landfill closure costs; and (3) landfill post-closure costs. These are summarized below:



**The remaining overall life of the landfill site is estimated on the following information:**



The current Master Plan for the site dated December 2007, and the Addendum to the Landfill Master Plan-Class IV Expansion dated September 2010.



Estimated annual tonnage of 105,000 Tons per year based on detailed tonnage records the District has maintained since the City of Bozeman began transporting the majority of its waste to the landfill in October, 2005.



Estimated waste disposal efficiency of 1.85 CY/Ton based on 1,350 LB/CY waste density and 4:1 waste-to-soil ratio. The District has routinely exceeded these metrics on previous measurements taken at the site.

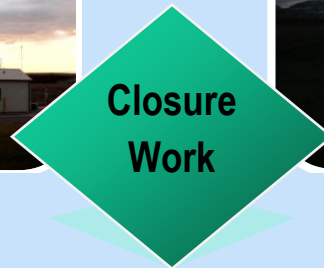
There are two very important items to note regarding the projections of facility life.



First, the landfill has routinely exceeded the design performance criteria for compaction and overall space utilization which effectively increases the life. The difference is created by the high level of compaction efficiency the landfill has routinely achieved over the last several years.



Second, the annual tonnage projection is 105,000 Tons per year based on the Fiscal Year 2014 numbers. Based on the above updated information, the overall site has been estimated to have 13.3 years of life remaining from May 22, 2014, Annual Landfill Performance Evaluation letter (Task Order #1). The final life of the overall site will be affected by the actual waste quantities accepted at the landfill, the amount of waste diverted out of the landfill, and the waste disposal efficiency that is achieved.



The total Class II and Class IV landfill area was increased from 53 to 55 acres in the 2010 addendum to the Master Plan. The County closed approximately three acres of the landfill in 1996 and another seven acres in 2013. The remaining 45 acres of waste area will require closure over the remaining life of the site. The MDEQ has approved an alternative final cover design which relies on native soil materials for the cover system rather than synthetic materials. This alternative cover system will be used for the remainder of the closure projects at the landfill.

The final cover design is a four-foot thick soil cover system that includes the following section from bottom to top:



Final contouring of the site, making sure that all areas are properly sloped, graded and use of intermediate cover per the final contour plan.



Installation of twelve inches of native sand material.



Twenty-four inches of select fine-grained native silt soil material placed as the evapotranspiration layer for the cover. This material will be selectively excavated and pushed into place with low ground pressure equipment, most likely, D-7 dozers or smaller.



Twelve inches of native sand material, of which, the top six inches will be topsoil material amended with compost or other fertilizer.



Vegetating the site with a seed/fertilizer mixture as outlined in the Closure Plan. It is assumed that the seed mixture will be tilled in using a tractor and an end wheel press drill or another acceptable seeder. In areas which are too steep for drill seeding, hydroseeding techniques will be used.

The total estimated cost per acre for installing the final cover system is shown in Table 9.

**Table 9**  
**Gallatin County Landfill**  
**Estimated Closure Costs Per Acre Alternative Final Cover System**  
**Updated August 2014**

Activity	Quantity	Unit	Cost/Unit	Cost
Mobilization/Bonding/Insurance	1	LS	\$3,000.00	\$3,000.00
Subgrade Preparation	800	CY	\$4.00	\$3,200.00
12" Capillary Sand Layer	1,600	CY	\$3.00	\$4,800.00
24" ET Silt Layer	3,200	CY	\$4.00	\$12,800.00
12" Sand Erosion & Topsoil Layer	1,600	CY	\$3.00	\$4,800.00
Drainage Controls	1	LS	\$3,000.00	\$3,000.00
Seed, Fertilizer, Mulch	1	AC	\$2,000.00	\$2,000.00
Gas Venting System	1	AC	\$5,000.00	\$5,000.00
Survey/Certification	1	AC	\$2,000.00	\$2,000.00
Engineering/QA/Inspection	1	LS	\$8,000.00	\$8,000.00
<b>Closure Cost Per Acre</b>				<b>\$48,600.00</b>



## FINANCIAL ASSURANCE APPROACHES

The Montana financial assurance regulations require that the landfill financially assure for the largest planned open area during the life of the landfill. Currently, the landfill has 21.5 acres of open landfill area. Under the current master plan, this is also the largest open area during the life of the landfill.

The MDEQ allows two basic approaches for financial assurance. One approach is to financially assure for the largest open area during the landfill life. Under this approach, the financial assurance timeline is based on when those funds would be needed for an emergency closure. The other acceptable approach is to financially assure for the entire landfill area. Under this approach, the financial assurance timeline is the overall life of the site. The Financial Insurance report provides cost estimates for both approaches, in order for the County to be able to elect the mechanism which best fits the District's landfill.

### CLOSURE COSTS & FINANCIAL ASSURANCE BASED ON OVERALL SITE

Under this approach, the financial assurance can be built over the life of the site. With each closure project the amount of the financial assurance requirement decreases. The annual financial assurance updates reflect these changes and the County can adjust the financial assurance amount over time. The total remaining landfill to be closed consists of approximately 45 acres.

The MDEQ requires that the financial assurance cost estimates be based on all of the work being conducted by a private contractor rather than the County or District. Therefore, it is assumed that plans, specifications and bid documents will be prepared and the project will be bid out. It is also assumed that the engineer will provide staking, compaction testing, quality assurance testing, interim and final inspections, and certifications and as-built drawings. A boundary survey needs to be completed and the deed needs to be filed at the courthouse. The estimated closure costs of the overall landfill site are depicted in Table 10. The total estimated closure cost is \$2,405,700.

Table 10 Logan Landfill Estimated Closure Costs - Closure of Entire Remainder of Site Updated August 2014				
Activity	Quantity	Unit	Cost/Unit	Cost
Alternative Final Cover System	45	AC	\$48,600	\$2,187,000.
10% Contingency				\$218,700.
<b>Closure for the Entire Site</b>	<b>45</b>	<b>AC</b>		<b>\$2,405,700.</b>



## CLOSURE COSTS & FINANCIAL ASSURANCE BASED ON LARGEST OPEN AREA

In this approach, the financial assurance is based on the largest area open during the life of the site. Under the updated Master Plan, the current open area of 21.5 acres is the largest area planned to be open during the life of the site. The estimated closure costs of this portion of the site are depicted in Table 11. The estimated closure cost is \$1,149,400.

<b>Table 11 Logan Landfill                      Estimated Closure Costs - Closure of Largest Open Area                      Updated August 2014</b>				
Activity	Quantity	Unit	Cost/Unit	Cost
Alternative Final Cover System	21.5	AC	\$48,600	\$1,044,900
10% Contingency				\$104,500
<b>Cost to Close Maximum Area</b>	<b>21.5</b>	<b>AC</b>		<b>\$1,149,400</b>

For the purposes of the financial assurance under this scenario, the County will examine what has already been placed in the financial assurance account versus what is needed to meet the State's requirements.

### POST-CLOSURE COSTS

In regard to the post-closure costs, the regulations require each landfill owner to monitor for methane, and groundwater, have an independent professional engineer conduct an annual inspection, update the closure and post-closure costs annually, and maintain the cap and drainage structures for settlement, erosion, cracking or any other situation that may jeopardize the integrity of the cap or drainage controls.

The estimated costs for these items for the 30-year post-closure period are summarized in Table 12. To calculate these costs, the following assumptions were used:



The annual costs for groundwater and methane monitoring are based on the current annual monitoring costs. Groundwater monitoring costs have increased significantly with the addition of new monitoring points associated with the corrective measures assessment. Also, the proposed expansion of license boundary to accommodate the composting area will add monitoring and testing costs. It is estimated that monitoring will cost approximately \$28,000 per year during the post-closure period.



The leachate collection will require periodic inspections, periodic pumping, and minor maintenance. This is estimated to cost approximately \$1,500 per year.



Once annually, an independent third party professional engineer will inspect the site for any non-compliance or maintenance issues including the integrity of the cap, drainage, fencing, etc. The engineer will correspondingly write a report summarizing his/her findings and recommendations. The engineer will also prepare an updated cost estimate indicating the cost to close the site along with the cost for the 30-year post-closure monitoring, etc. These costs will correspondingly be sent to the appropriate officials. The estimate assumes 20 hours of labor at \$95 per hour and miscellaneous word processing and expenses.



It is necessary for the Owner of the facility to maintain the integrity of the cap and drainage controls. It is difficult to estimate what the annual cost to conduct this work might be several years from now. For this estimate, it was assumed that once per year a contractor will provide 16 hours of equipment time to haul in and blade soil in settled area(s) at \$500 per hour and revegetate areas for \$500.



The EPA has passed new regulations requiring annual reporting of greenhouse gas emissions. This process is currently costing the District approximately \$1,000 per year for the professional services to report the annual emissions



Table 12 Logan Landfill Post-Closure Care Cost Estimate		
Item	Annual Cost	30 Year Cost
Groundwater & Methane Monitoring	\$28,000	\$840,000
Leachate Collection System Operation & Maintenance	\$1,500	\$45,000
Annual Engineering Inspection	\$2,000	\$60,000
Periodic Cap and Stormwater Maintenance	\$8,500	\$255,000
Annual Greenhouse Gas Reporting	\$1,000	\$30,000
<b>Total</b>	<b>\$41,000</b>	<b>\$1,230,000</b>



## FINANCIAL ASSURANCE UPDATE BASED ON OVERALL SITE LIFE APPROACH

In 2006, the District elected to utilize the overall site life approach to determine the financial assurance obligation. Tim Stepp, MDEQ agreed with the approach in correspondence. The balance in the closure/post-closure reserve is current as of July 1, 2014. Table 13 calculates the cost per ton to meet financial assurance requirements under the overall site method.

<b>Table 13 Logan Landfill Financial Assurance Calculation August 2014</b>	
<b>Post Closure Costs</b>	<b>\$1,230,000</b>
<b>Total Obligation</b>	<b>\$3,635,700</b>
<b>Closure/Post Closure Reserve (July 2014)</b>	<b>\$-1,989,600</b>
<b>Amount to Finance Over Remaining Site Life</b>	<b>\$1,646,100</b>
<b>Total Remaining Tonnage (13 Years x 105,000 Tons/Year)</b>	<b>1,365,000 Tons</b>
<b>Cost Per Ton to meet Closure Post Closure Financial Assurance Requirements Under Overall Site Method</b>	<b>\$1.21/Ton</b>



# Environmental Compliance



Groundwater monitoring is conducted and results are reported according to the rules established since 1990 at the Logan Landfill. There are currently 12 monitoring wells, including two shop wells, a scale/administration building well, which is utilized for the site water supply. Additionally, samples are collected from a spring located north of Interstate 90 once a year, and three residents' wells. Water levels from an unused monitoring well located on the east side of the landfill is measured during every sampling event.

All downgradient wells, LMW-2, LMW-3, LMW-4, LMW-5 and the Old Shop Well have shown various levels of VOC's over time. In 2006, due to a statistical exceedance of the MCL for tetrachloroethene in LMW-4, the landfill has been in a five-year Corrective Measures Plan (CMP) with MDEQ. The pilot program tested the effectiveness of remediation product to address groundwater contamination at the site. The product was injected directly into the groundwater approximately six years ago and the District has been monitoring wells downgradient of the injection site since that time. The CMP approved by MDEQ requires the County reevaluate the effectiveness of the remediation product at the end of the five-year period and develop a full scale plan for remediation of the site. In 2012, in the evaluation, the product used was successful in reducing the PCE concentration, but there was concern in the inconsistency in groundwater data collected during the five-year program that questioned the source of the PCE. A soil gas field investigation and assessment was approved by MDEQ and conducted. It was suspected the PCE or other VOC's occur in soil gas in the vicinity of the apparent source area of the groundwater plume. On February 10, 2014, on behalf of the District, Bruce Siegmund, Senior Hydrologist, Great West Engineering, Inc. submitted a Work Plan to MDEQ for a two-stage pilot program using a soil vapor extraction system. On March 12, 2014, the District received a letter from John Collins, Environmental Science Specialist, Solid Waste program, MDEQ, approving the Work Plan as proposed.



**Test well for the Soil Vapor Extraction System Plan**



# Figure 1 Soil Vapor Extraction Work Plan



Figure 1. Logan landfill, Gallatin County, Montana, showing proposed SVE work plan area.





In August 2013, the District received Phase II Partial Closure Certificate report from Great West Engineering, Inc. submitted to MDEQ. The partial closure was approved by MDEQ on October 10, 2013. The Construction report documents closure of 4.2 acres on the western slope and 3 acres on the eastern slope, of the Phase 2 unit where alternative final cover (AFC) was installed. Conformance testing of the as-built AFC was completed as required.



In August 2013, the District received the renewal of its Biosolids permit from the Environmental Protection Agency (EPA) Biosolid Permit #MT650071. It will expire May 12, 2018. On February 4, 2014, on behalf of the District, Carrie Gardner, Project Engineer, Great West Engineering, Inc. submitted the District's annual Biosolids report to the Environmental Protection Agency for Biosolid Permit #MT650071.



The semi-annual Groundwater Monitoring reports submitted to MDEQ in October (2013) April (2014) met the requirements of the Administrative Rules of Montana Title 17, Chapter 50, Subchapter 13.



In November 2013, three bales from the landfill's metal pile were rejected by the processor due to low level radiation being detected in the bales. They were returned to the landfill. The bales were suspected to be grinding wheels disposed of by the railroad. They contained naturally occurring radioactive material. The Material Safety Data Sheet (MSDS) identifies the wheels zirconium oxide as the source of the NORM in abrasives with trace amounts of NORM present. We paid \$1,300 for proper disposal with Bear Tooth Environmental. The District purchased a Radiation Survey Meter (\$2,894.73) for detecting loads that might contain radiation.



**Grinding  
Wheels**



**Radiation Survey Meter**



On December 4, 2013, a black box at the public tipping area caught on fire. Landfill personnel responded with ADC until the Manhattan Fire Department could respond. The cause of the fire was most likely a burn barrel found in the black box.



The Logan Landfill's current Methane Monitoring plan follows the requirements for methane monitoring at municipal solid waste facilities in the State of Montana under ARM 17.50.511 1 (f) and (g). The methane monitoring is conducted quarterly. The points of monitoring include seven methane monitoring wells, eight passive vents, and five structures. The monitoring testing results are reported to MDEQ. This reporting period, all monitoring results were within regulatory limits and are consistent with previous reports submitted.



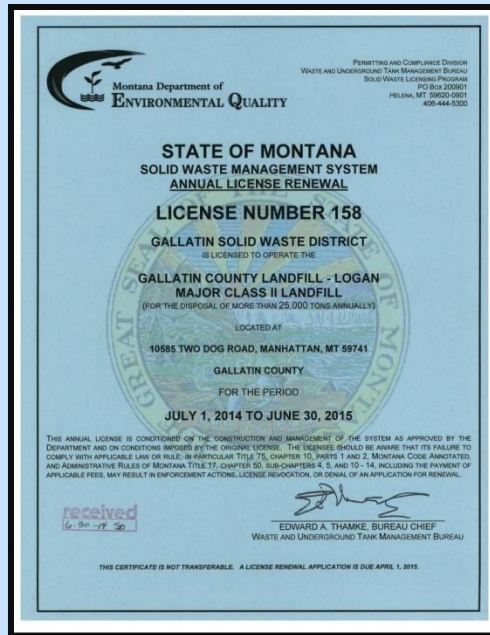
The Logan Landfill is subject to site inspections by MDEQ. On May 13, 2014, Kathleen O'Hern, Environmental Science Specialist with the Solid Waste Program inspected the site. At the time of her inspections no violations were noted.



On February 24, 2014, Bruce Siegmund, Senior Hydrologist for Great West Engineering, Inc., the District's agent of record, submitted the Annual Greenhouse Gas (GHG) report required by the EPA for 2013 to the Environmental Protection Agency (EPA). The report was electronically sent, received, and certified.



On March 13, 2014, the District submitted to MDEQ an application for the annual license renewal for Logan Landfill's permit #158. It was renewed. It covers the period of July 1, 2014 to June 30, 2015.



In April of 2014, the District submitted an application to MDEQ for a Gallatin County Logan Landfill Class II License Expansion. The application fee submitted was \$12,000.

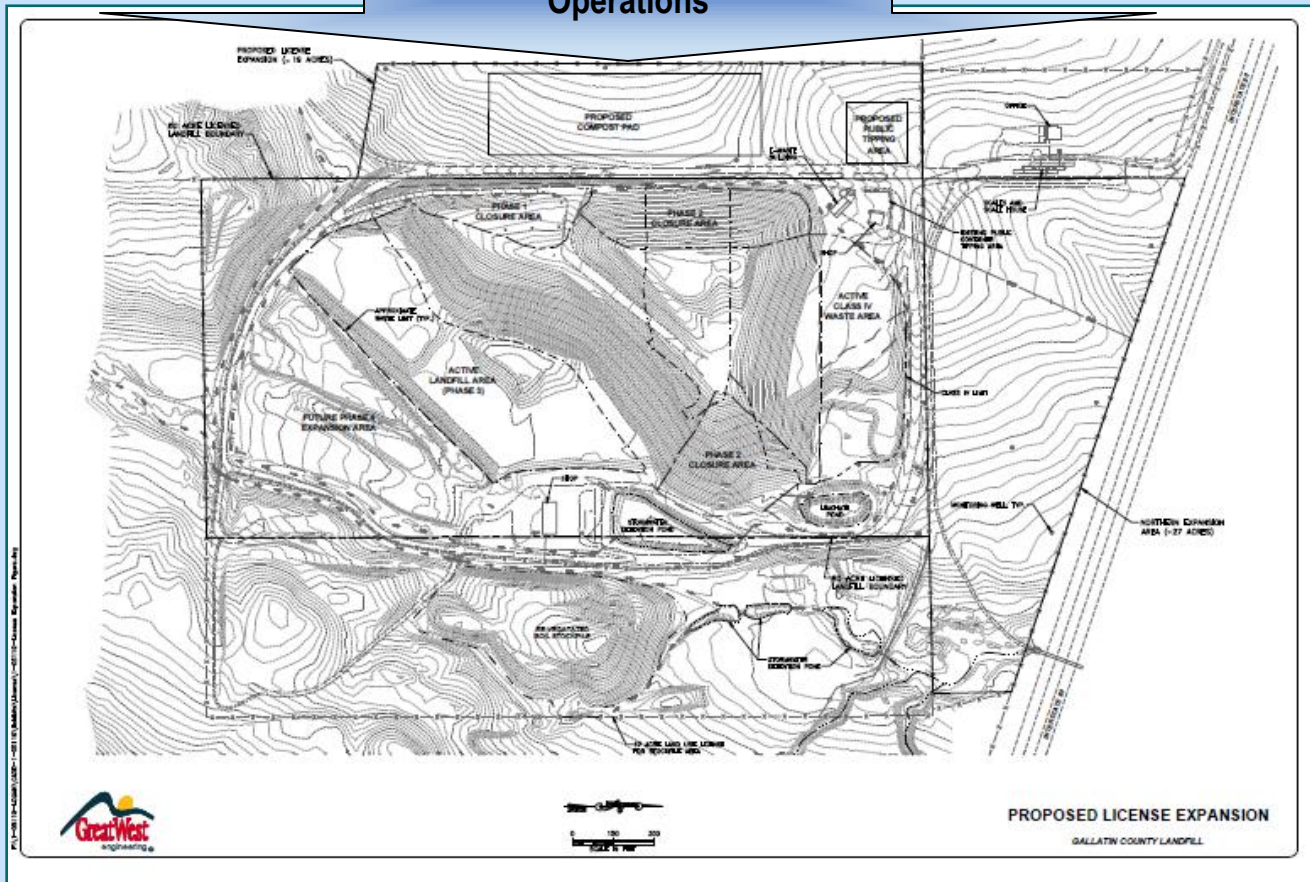


On Thursday, May 8, 2014, landfill personnel removed two five-gallon containers of strong corrosives from a load. They did not cause a reaction or fire. The chemicals were diverted to the HHW program. On Monday, May 12, 2014, a chemical reaction fire occurred in Cell 3 due to a strong acid and oxidizer mixing with incompatible materials in the load. The chemical reaction was contained and mitigated by landfill personnel.

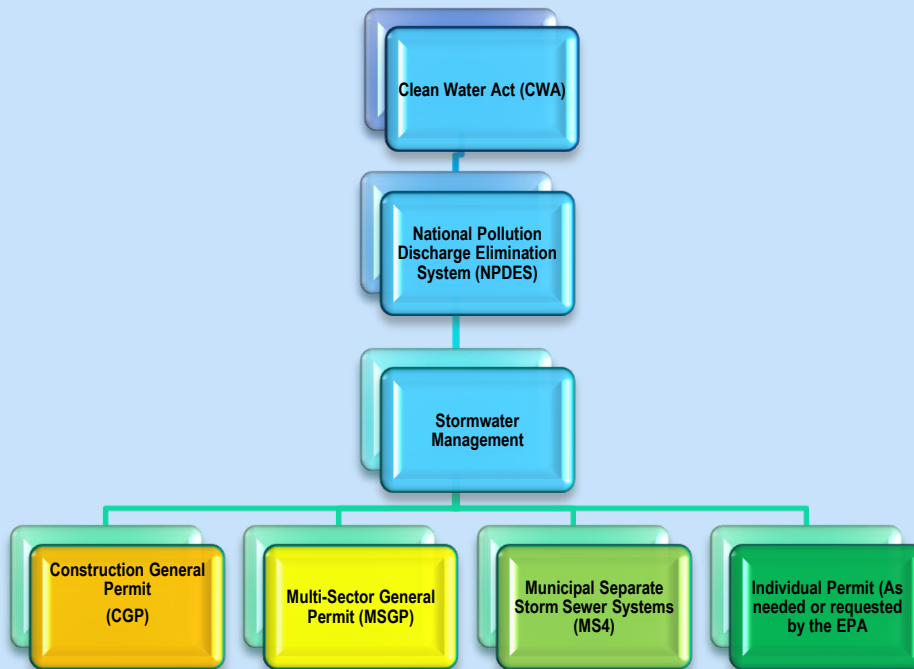




**Figure 2 Proposed Class II License Expansion for Composting Operations**



**Compost Piles**  
**Compost Windrow Turner**



The landfill is permitted: Permit Authorization MTR000358 under the Montana Pollutant Discharge Elimination System (MPDES) General Permit for Storm Water Discharges Associated with Industrial Activity (General Permit). It expires January 31, 2018.



On October 1, 2013, the District submitted the Discharge Monitoring Report for the period of July 1, 2013 through September 30, 2013.



On January 10, 2014, the District submitted the 2013 Annual Compliance Evaluation Report for the Storm Water Discharges Associated with Industrial Activity and the Discharge Monitoring Report (DMR) for the period October 1, 2013 through December 31, 2013.



On April 5, 2014, the District submitted the Discharge Monitoring Report (DMR) for the period of January 1, 2014 through March 31, 2014.



On June 30, 2014, the District submitted the Discharge Monitoring Report (DMR) to MDEQ for the period of April 1, 2014 through June 30, 2014.



# Logan Landfill Projects & Improvements



In August 2013, staff performed minor repairs and grading improvements to the storm water run-off controls and slopes affected by the storm on August 1, 2013.



In August 2013, Operations completed construction at the public tipping area and improved storm water run-off controls.



In September 2013, Operations installed a litter control fence in Class 4 and Cell 3. In October, November, December, January, February of 2013, eight portable litter/wind screens were repaired; nine portable litter/wind screens the netting wore out and was replaced with chain link, and; four new portable litter/wind screens were completed.



In September 2013, the Gallatin County Road Department paved an area in front of the E-waste building from the millings stored on-site from the Interstate 90 paving project.





In September 2013, Staff completed improvements and repairs to the storm water drainage system.



On September 1, 2013, the District called for Statements of Qualifications (SOQ) for Engineering Services for the Logan Landfill. In October, the SOQ was awarded to Great West Engineering, Inc. In January, 2014, a new five-year Service Agreement was executed.



In October 2013, the District purchased road mix to repair and maintain the landfill's access roads.



On December 19, 2013, the District called for Competitive Sealed Proposals (CSP) for a Haul Truck and Excavator with a trade-in of the District's 623 Paddle Wheel CAT scraper. On January 28, 2014, the County Commission awarded the CSP to Tractor & Equipment (T&E). On May 8, 2014, the new CAT Excavator (\$268,580) was delivered to the landfill. The CAT Haul Truck was delivered to the landfill On June 24, 2014. T&E traded the 623 G Scraper for \$281,000.



**Traded 623 CAT Paddle Wheel Scraper**



**New 329E CAT  
Excavator**



**New 730C CAT Articulated  
Haul Truck**

**D&F Farms  
Seeded and  
Sprayed Logan  
Springs Ranch**



In October, 2013, the District entered into a new agreement with Matt Flikkema, D&F Farms, for a three year contract with three one-year options to renew, for the seeding and spraying of the Logan Springs Ranch property. The contracts serve as documentation of the Logan Springs Improvement Plan in preparation for the proposed land swap with the DNRC. The District entered into an agreement with Monsanto Company and BASF Agrochemical Products B.V. to use their seeds. The treated areas were planted with the two company's winter wheat to help control the weeds.





**Winter Wheat Crop Before Harvest**

Throughout many years, the County/District has worked towards a proposed land exchange with the Department of Natural Resources (DNRC). On January 31, 2011, the County Commission authorized a letter of interest be sent to the DNRC. On February 10, 2011, the letter of interest to apply for a land exchange was sent to the DNRC by the District Manager. In January 2014, the District proceeded with the preliminary application process. This fiscal year many meetings were attended by Jim Simon, District Manager, Steve White, Gallatin County Commissioner, and Chris Gray, Gallatin County Attorney. They met with Craig Campbell with the DNRC who assisted in helping the District prepare a pre-application to the State Land Board. In March 2014, the application was ready for submittal pending the County Commission and County Attorney approval. On April 21, 2014, the County Commission approved sending in the application to the DNRC with the \$100 review fee. May 6, 2014, the application was turned into DNRC. In June, the preliminary application was being reviewed by the State. The Bozeman DNRC and the District will be developing an assessment of the properties and preparing information for the public comment and review. It is hopeful the land exchange will continue to move forward in the next fiscal year.



**Looking East from the Logan Springs Ranch Property at the Logan Landfill Operations**



In October 2013, the District purchased a new SQL WasteWorks database to replace the out of date version (\$9,680).



In October 2013, the City of Bozeman Water Treatment Plant started hauling biosolids to the landfill. The total tonnage hauled this fiscal year was 2,029.44 tons. We received \$14,211 (2,029.44 x \$7 per Ton).



In October 2013, the District solicited quotes for a License Expansion Subsurface Exploration at the Logan Landfill. Red Tiger Drilling was awarded the project. On November 25, 2013, the District entered into a Service Agreement with Red Tiger Drilling. On December 16, 2013, Red Tiger Drilling came on-site to drill the three test wells for the proposed compost expansion (\$14,919.25).



On February 23, 2014, the District called for a CSP for construction of a Wash Bay at the Shop at the Logan Landfill. The proposals were due March 18, 2014. On April 8, 2014, the County Commission awarded it to Outback Construction (\$166,121.00 plus a Change Order for \$17,389.05 Total: \$183,510.05). A pre-construction meeting was held May 28, 2014. Construction began June 9, 2014.







On March 9, 2014, the District requested a CSP for a five (5) year contract regarding the grinding and processing of green/clean wood waste currently being collected and stockpiled at the Bozeman Convenience Site (BCS) and at the Logan Landfill (LL). The proposals were due March 31, 2014. On April 29, 2014, the County Commission awarded the CSP to Marks Lumber (Clancy, MT) for \$4.34 per cubic yard plus \$5,200 mobilization fee.



On March 5<sup>th</sup> and 6<sup>th</sup>, 2014, Gallatin County had a flood event that affected the Logan Springs property spring. In order to clean up and restore the spring the District applied for a 124 permit from the Montana Fish Wildlife and Parks (MFWP). In May 2014, District Manager Jim Simon met with Bruce Siegmund, Senior Hydrologist with Great West Engineering, Inc. and MFWP to discuss developing a Spring Rehabilitation Plan. In June 2014, Great West Engineering, Inc. surveyed the spring (Task Order #3) to start the development of the plan (\$8,500.00).



In April 2014, Operations started repairing the flood damage to the run-off control ditches and culverts from the March flood event.



In June 2014, Logan's scalehouse windows were tinted as requested by Terrell's Office Machine technician. The equipment was getting direct sunlight, overheating and causing the equipment to breakdown.



In June 2014, the landfill's access roads were bladed in preparation for the annual magnesium chloride treatment of the roads for dust control.



In June 2014, the repairs were completed to the run-off control ditch at the regular compost area.



In June 2014, Operations continues to excavate cover soil for Cell 3 from the Cell 4 expansion footprint.





# *Logan Landfill Profit & Loss*

## *July 2013 through June 2014*

Ordinary Income/Expense		July 13-June 14
<b>Income</b>		
Gain (Loss) on Equipment Trade-In		261,921.52
E-Waste Hauled Out		8,583.99
Charges for Services-Logan		
	3430-42 · Disposal charge	3,503,989.12
	3430-45 · Sale of Junk or Salvage	27,677.41
<b>Total Charges for Services-Logan</b>		<b>3,531,666.53</b>
Grazing Lease		2,200.00
3710-10 · Interest Earnings		58,814.64
<b>Total Income</b>		<b>3,863,186.68</b>
<b>Cost of Goods Sold</b>		
E-Waste Event Expenses		732.62
<b>Total COGS</b>		<b>732.62</b>
<b>Gross Profit</b>		<b>3,862,454.06</b>
<b>Expense</b>		
Amortization		928.68
335 · Membership Dues		640
Tax Assessments		
	540 · Tax Assessments	6.60
<b>Total Tax Assessments</b>		<b>6.60</b>
<b>Personnel</b>		
	110 · Salaries & Wages-Permanent	540,914.10
	120 · Overtime-Permanent	13,171.72
	140 · Employer Contributions	196,046.65
	141 · W.C. Employer Contributions	15,236.10
<b>Total Personnel</b>		<b>765,368.57</b>
<b>Maintenance</b>		
	230 · Repairs & Maintenance Supplies	68,279.42
	232 · Tires	8,588.58
	360 · General Repair & Maintenance by Other	6,914.20
	361 · Equipment Repairs & Maintenance	20,716.10
	362 · Office Equipment Repair & Maintenance	5,639.82
<b>Total Maintenance</b>		<b>110,138.12</b>
<b>Small Tools</b>		
	240 · Consumable Tools	1,546.75
	235 · Small Tools	3,164.50
<b>Total Small Tools</b>		<b>4,711.25</b>
<b>Utilities</b>		
	341 · Electric Utilities	16,422.04
	344 · Propane	10,167.51
	345 · Telephone	20,196.38
	346 · Cell Phones	1,982.10
<b>Total Utilities</b>		<b>48,768.03</b>
<b>Supplies</b>		
	221 · Software	449.95
	210 · Office Supplies	3,219.01
	220 · Operating Supplies	83,047.59
	224 · Food	515.33
	226 · Clothing & Uniforms	1,980.21
<b>Total Supplies</b>		<b>89,212.09</b>
<b>Insurance</b>		
	510 · Property Insurance	16,007.38
	513 · Liability Insurance Allocated	29,674.50
<b>Total Insurance</b>		<b>45,681.88</b>
<b>Fuel</b>		
	231 · Gas, Oil, Fuel, Grease	167,808.00
<b>Total Fuel</b>		<b>167,808.00</b>

	Postage		
		312 · Postage	1,955.10
	<b>Total Postage</b>		<u>1,955.10</u>
	Printing & Duplicating		
		320 · Printing & Duplicating	1,179.94
	<b>Total Printing &amp; Duplicating</b>		<u>1,179.94</u>
	Advertising		
		331 · Publications Legal Notices	420.00
		337 · Advertising	3,371.73
	<b>Total Advertising</b>		<u>3,791.73</u>
	Travel		
		370 · Travel	2,332.29
	<b>Total Travel</b>		<u>2,332.29</u>
	Training		
		380 · Training	766.00
	<b>Total Training</b>		<u>766.00</u>
	Outside Services		
		350 · Professional Services	
		Corrective Measures	13,907.90
		350 · Professional Services-Other	79,397.96
		<b>Total 350 · Professional Services</b>	<u>93,305.86</u>
		351 · Medical Services, Vet Services	224.00
		390 · Purchased or Contracted Service	13,019.91
	<b>Total Outside Services</b>		<u>106,549.77</u>
	Licenses		
		570 · License Fees	45,196.80
	<b>Total Licenses</b>		<u>45,196.80</u>
	Rent		
		530 · Rent	31,230.63
	<b>Total Rent</b>		<u>31,230.63</u>
	Service Charges		
		630 · Service Charges	3.98
	<b>Total Service Charges</b>		<u>3.98</u>
	Administrative Fixed Costs		
		590 · Administrative Costs	21,750.00
	<b>Total Administrative Fixed Costs</b>		<u>21,750.00</u>
	Closure/Post Closure		
		580 · Closure/Post Closure Costs	122,280.19
	<b>Total Closure/Post Closure</b>		<u>122,280.19</u>
	Loan Interest Payments		
		620 · Loan Interest	5,573.20
	<b>Total Loan Interest Payments</b>		<u>5,573.20</u>
	Depreciation		
		830 · Depreciation	785,644.99
	<b>Total Depreciation</b>		<u>785,644.99</u>
	<b>Total Expense</b>		<u>2,361,517.84</u>
Net Ordinary Income			1,500,936.22
Other Income/Expense			
	Other Expense		
	Loss on Sale of Equipment		2,052.52
	Loan Payments		
		610 · Principal	125,000.00
		615 · Principal Contra	-125,000.00
	<b>Total Loan Payments</b>		<u>0.00</u>
	Reserve Funds		
		905 · Equipment/Next Cell Reserves	720,000.00
		955 · EQUIP/NEXT CELL RESERVE CONTRA	-720,000.00
	<b>Total Reserve Funds</b>		<u>0.00</u>
	Capital Improvements		
		920 · Buildings	90,302.54
		925 · Buildings Contra	-90,302.54
		930 · Improvements Other Than Buildings	130,091.49
		935 · Improvements Contra	-130,091.49
		940 · Capital Expense- Machinery & Equipment	254,597.08
		945 · Machinery & Equipment Contra	-254,597.08
	<b>Total Capital Improvements</b>		<u>0.00</u>
	<b>Total Other Expense</b>		<u>2,052.52</u>
Net Other Income			-2,052.52
<b>Net Income</b>			<u><b>1,498,883.70</b></u>



# Logan Landfill Balance Sheet as of June 30, 2014

ASSETS	June 30,14
<b>Current Assets</b>	
Checking/savings	
Cash Operational Combined	
10-1000 · Cash Operational	4,266,509.12
Total Cash Operational Combined	4,266,509.12
10-2000 · Restricted Cash-Closure Costs	1,989,567.36
10-2110 · Cash - Fixed Asset Purchases	1,715,652.45
10-2130 · Cash Reserve for Security Deposit	88,500.00
10-2210 · Loan Payment Reserve	62,500.00
10-2220 · Loan Reserve (Future Year Payment)	125,000.00
10-2230 · Reserve For Next Cell	1,750,000.00
Total Checking/Savings	9,997,728.93
Accounts Receivable	
Accounts Receivable	
12-2000 · Logan Landfill	564,267.69
Total Accounts Receivable	564,267.69
Total Accounts Receivable	564,267.69
<b>Total Current Assets</b>	10,561,996.62
<b>Fixed Assets</b>	
Fixed assets	
18-6050 · Continuing Property Under \$5000	102,845.60
18-1000 · Land	1,650,785.00
18-2000 · Buildings	1,537,200.05
18-2100 · Allow for depreciation-buildings	-227,038.35
18-3000 · Intangibles	6,965.00
18-3100 · Amortization	-6,965.00
18-4000 · Improvement Other Than Buildings	2,959,659.69
18-4100 · Allow for Depreciation-Improvement Other	-2,310,146.57
18-6000 · Machinery & Equipment	3,648,261.99
18-6100 · Allow for Depreciation-Machine & Equipment	-1,956,786.98
18-8005 · CIP - Shop Wash Bay/Tank	94,003.14
18-8010 · CIP - Cell 4 Expansion	25,490.55
18-8015 · CIP - Compost Expansion	74,365.57
18-8020 · CIP - Logan Springs	30,865.38
18-8500 · Class 4 Waste Area	35,433.23
Total Fixed Assets	5,664,938.30
Total Fixed Assets	5,664,938.30
<b>TOTAL ASSETS</b>	16,226,934.92
<b>LIABILITIES &amp; EQUITY</b>	
Liabilities	
Current Liabilities	
20-6120 · Wages Payable	15,275.98
20-6130 · Payroll Liabilities	16,992.30
20-6135 · W.C. Payroll Liability Payable	2,560.79
20-9100 · Compensated Absences Payable	5,237.50
21-4000 · Security Deposits Payable	88,500.00
Current Portion-Long Term Debt	125,000.00
Total Other Current Liabilities	253,566.57
Total Current Liabilities	253,566.57
Long Term Liabilities	
23-5406 · Land Loan - Board of Investment	812,500.00
Current Portion	-125,000.00
23-6000 · Closure Cost Liability	1,850,675.70
23-9000 · Compensated Absences - Non-Current	47,137.54
23-9500 · GASB 45 OPEB Net Obligation	49,190.30
Total Long Term Liabilities	2,634,503.54
Total Liabilities	2,888,070.11
Equity	
3000 · Net assets	1,126,924.76
3900 · Total Net Assets	10,713,056.35
Net Income	1,498,883.70
Total Equity	13,338,864.81
<b>TOTAL LIABILITIES &amp; EQUITY</b>	16,226,934.92





# Bozeman Convenience Site Projects and Improvements



In October, 2013, we purchased a new computer for the site. It is used as a backup computer. WasteWorks new SQL database was installed to update both computers at the site.



On May 12, 2014, a spill was detected from one of the roll-off boxes on site. Several, partially filled plastic containers were disposed of into one of the roll-off boxes that contained liquid chemical suspected to be an exterior deck stain. When the roll-off box was tilted in the process of loading onto the transport vehicle, the contents were emptied from the plastic containers and mixed with water at the bottom of the roll-off box. The chemical and water spilled out the back of the roll-off box at two locations, the Bozeman Convenience site north roll-off box staging area, and by the City of Bozeman's shop where the roll-off box was off loaded. MDEQ Enforcement Division, the Disaster and Emergency Services, City of Bozeman, and the Bozeman Fire HazMat were contacted. Tetra Tech, Inc. was hired to do an environmental assessment. A composite sample was collected and sent to the lab. On May 13<sup>th</sup> and 14<sup>th</sup>, 2014, the contaminated soil was excavated and placed in three roll-off containers. The contaminated soil was disposed of at the Logan Landfill. After the excavation of the areas the sites affected were backfilled with pit-run material. A full cleanup and remediation was sent to the City of Bozeman and Gallatin County.





# Bozeman Convenience Site Profit and Loss

## July 2013 through June 2014

**Ordinary Income/Expense**

		<u>July 13-Jun 14</u>
<b>Income</b>		
	<b>Charges for Services-Bozeman</b>	
	HHW	1,807.00
	Disposal Charge	160,020.75
	Sale of Junk or Salvage	3,461.30
	<b>Total Charges for Services-Bozeman</b>	<b>165,289.05</b>
<b>Total Income</b>		165,289.05
<b>Cost of Goods Sold</b>		
	<b>80% Compost Due to City</b>	7,978.40
	<b>Transport from BCS</b>	
	Rolloff Containers	102,510.00
	Stationary Compactor Containers	6,432.00
	<b>Total Transport from BCS</b>	<b>108,942.00</b>
<b>Total COGS</b>		<b>116,920.40</b>
<b>Gross Profit</b>		<b>48,368.65</b>
<b>Expense</b>		
	<b>Personnel</b>	
	110 - Salaries & Wages-Permanent	29,416.03
	120 - Overtime-Permanent	196.79
	140 - Employer Contributions	12,892.34
	141 - W.C. Employer Contributions	101.68
	<b>Total Personnel</b>	<b>42,606.84</b>
	<b>Maintenance</b>	
	230 - Repairs & Maintenance Supplies	11.18
	362 - Office Equipment Repair & Maintenance	1,145.34
	<b>Total Maintenance</b>	<b>1,156.52</b>
	<b>Utilities</b>	
	341 - Electric Utilities	1,912.92
	345 - Telephone	1,680.00
	<b>Total Utilities</b>	<b>3,592.92</b>
	<b>Supplies</b>	
	210 - Office Supplies	136.13
	220 - Operating Supplies	2,663.65
	224 - Food	44.62
	<b>Total Supplies</b>	<b>2,844.40</b>
	<b>Insurance</b>	
	510 - Property Insurance	844.80
	513 - Liability Insurance Allocated	1,079.86
	<b>Total Insurance</b>	<b>1,924.66</b>
	<b>Outside Services</b>	
	350 - Professional Services	59,248.49
	390 - Purchased or Contracted Service	3,886.04
	<b>Total Outside Services</b>	<b>63,134.53</b>
	<b>Licenses</b>	
	570 - License Fees	280.00
	<b>Total Licenses</b>	<b>280.00</b>
	<b>Administrative Fixed Costs</b>	
	590 - Administrative Costs	3,664.78
	<b>Total Administrative Fixed Costs</b>	<b>3,664.78</b>
	<b>Depreciation</b>	
	830 - Depreciation	7,692.05
	<b>Total Depreciation</b>	<b>7,692.05</b>
<b>Total Expense</b>		<b>126,896.70</b>
<b>Net Ordinary Income</b>		<b>-78,528.05</b>
	<b>Total Capital improvements</b>	
	940 - Capital Expense- Machinery & Equipment	1,832.93
	945 - Machinery & Equipment Contra	-1,832.93
	<b>Total Other Expense</b>	<b>0.00</b>
<b>Net Other Income</b>		<b>0.00</b>



# Bozeman Convenience Site Balance Sheet as of June 30, 2014

	Jun 30, 14
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
Cash Operational Combined	
10-1005 · Cash Operational-BCS	-657,740.99
<b>Total Cash Operational Combined</b>	-657,740.99
<b>Total Checking/Savings</b>	-657,740.99
<b>Accounts Receivable</b>	
Accounts Receivable	
12-2005 · Bozeman Convenience Site	947.00
<b>Total Accounts Receivable</b>	947.00
<b>Total Accounts Receivable</b>	947.00
<b>Total Current Assets</b>	-656,793.99
<b>Fixed Assets</b>	
<b>Fixed assets</b>	
18-6050 · Continuing Property Under \$5000	3,066.03
18-2000 · Buildings	65,377.72
18-2100 · Allow for Depreciation- Buildings	-4,455.54
18-4000 · Improvement Other Than Buildings	18,155.90
18-4100 · Allow for Depreciation- Improvements Other Than	-2,842.95
18-6000 · Machinery & Equipment	94,259.42
18-6100 · Allow for Depreciation- Machine & Equipment	-19,903.00
<b>Total Fixed Assets</b>	153,657.58
<b>Total Fixed Assets</b>	153,657.58
<b>TOTAL ASSETS</b>	-503,136.41
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Other Current Liabilities</b>	
City of Bozeman	11,611.20
20-6120 · Wages Payable	1,700.68
20-6135 · W.C. Payroll Liability Payable	51.01
20-9100 · Compensated Absences Payable	345.26
<b>Total Other Current Liabilities</b>	13,708.15
<b>Total Current Liabilities</b>	13,708.15
<b>Long Term Liabilities</b>	
23-9000 · Compensated Absences - Non-Current	3,107.38
<b>Total Long Term Liabilities</b>	3,107.38
<b>Total Liabilities</b>	16,815.53
<b>Equity</b>	
3900 · Total Net Assets	-441,596.74
Net Income	-78,355.20
<b>Total Equity</b>	-519,951.94
<b>TOTAL LIABILITIES &amp; EQUITY</b>	-503,136.41



# Recycling and Waste Diversion

The Solid Waste Management District's overall purpose was to develop a recycling program and continue to make it successful. To reuse, reduce, recycle and intelligently dispose of waste materials. Its Mission: to conserve, protect and preserve the environmental resources of our community through advocacy, education and outreach programs in Gallatin County.

The District's recycling program began in April 1, 2008. This fiscal year, the approved budget was \$341,073. At the end of this fiscal year, we spent \$340,837. We came in under budget by \$236 dollars.

**Table 14 Budget to Actual & Expenses for Fiscal Years 2013-2014**

Expenses	Budget 2013	Actual 2013	Budget 2014	Actual 2014
Hauling/Processing	\$245,950	\$244,837	\$243,600	\$222,414
Wages	\$46,757	\$45,464	\$48,254	\$49,668
Bins	\$30,000	\$18,060	\$15,700	\$5,209
All Other	\$53,319	\$41,038	\$31,169	\$41,123
<b>Total</b>	<b>\$365,076</b>	<b>\$343,047</b>	<b>\$338,723</b>	<b>\$318,414</b>

The District budgeted \$128,000 in anticipated revenue from the sale of recycled commodities. The revenue from recyclable commodities in the waste stream with existing markets was \$117,552 a slight increase (\$1,654) from the

previous fiscal year's revenue of \$115,898, but a \$10,448 deficit for the anticipated revenue for this budget year. All the commodities, with the exception of cardboard, show a drop in revenue. Commodities accepted at each recycling site are plastic (#1-7), steel cans, aluminum cans, paper, news print, magazines, and cardboard. Other waste diversion efforts by the District include metal diversion (1,539 Tons = \$24,672); 212 batteries (\$1,696) at the Logan Landfill and 35 batteries (\$221) at the Bozeman Convenience Site; 2,430 gallons of oil, of those, 561 gallons came from the Bozeman Convenience Site (no revenue). 750 gallons of antifreeze was collected, of that, 200 gallons came from the Bozeman Convenience Site (no revenue). Other recycled commodities: propane tanks (processed with the scrap metal); Freon; pesticide containers (2,060 lbs.) in collaboration with the Montana Department of Agriculture (no revenue) and; bear spray canisters, in collaboration with the Gallatin National Forest (no revenue).

Processing costs for the District's recyclables are \$74 per ton for all commodities. Tonnages for aluminum and steel are reduced 6% for estimated loss (waste) when revenues are calculated. The aluminum and steel tonnages were up this year, but the revenue was down. Plastic is reduced 8.5% for estimated loss. The District's Recycle Tonnage and Revenue Table 15 compares this fiscal year with the previous three fiscal years.

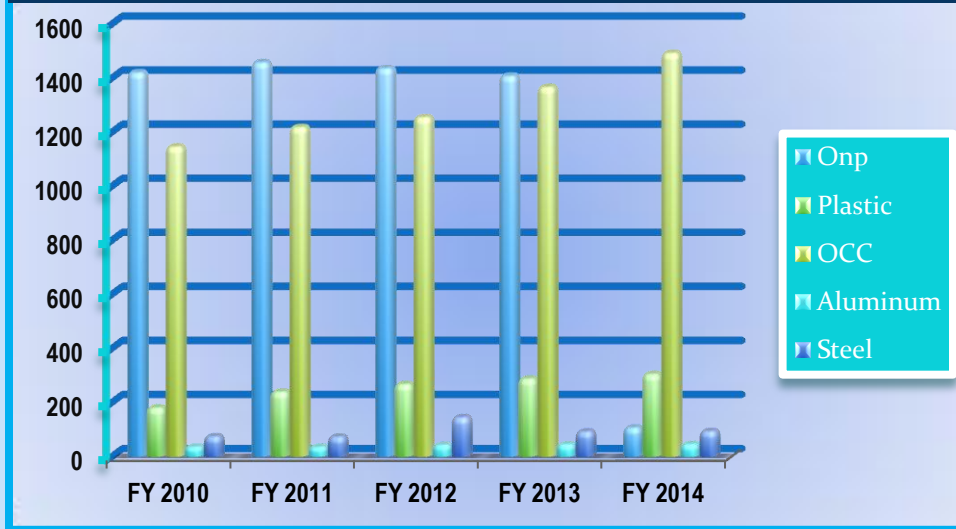
**District Recycle Revenue and Tonnage Comparison**  
**Fiscal Years 2011 Through 2014**  
**Table 15**

<b>Roll-off Program</b>	<b>FY '11 Revenue</b>	<b>FY '12 Revenue</b>	<b>FY' 13 Revenue</b>	<b>FY' 14 Revenue</b>
Paper	\$51,101.36	\$59,315.80	\$28,832.44	\$28,793.40
Plastic	\$21,200.62	\$39,539.58	\$31,078.44	\$24,865.40
Tin/Aluminum	\$32,602.78	\$34,118.63	\$37,352.56	\$38,641.10
Cardboard	\$55,574.68	\$49,109.95	\$16,377.88	\$25,251.80
<b>TOTALS</b>	<b>\$160,479.44</b>	<b>\$182,083.96</b>	<b>\$113,641.32</b>	<b>\$117,551.70</b>
<b>Roll-off Program</b>	<b>FY '11 Tons</b>	<b>FY '12 Tons</b>	<b>FY' 13 Tons</b>	<b>Fy' 14 Tons</b>
Paper	1,460.17	1,416.11	1,386.79	1,351.59
Plastic	242.00	264.25	286.47	301.97
Tin/Aluminum	111.59	117.96	139.31	142.94
Cardboard	1219.97	680.22	1,236.37	1482.64
<b>TOTALS</b>	<b>3,033.73</b>	<b>2,478.54</b>	<b>3,048.94</b>	<b>3,279.14</b>

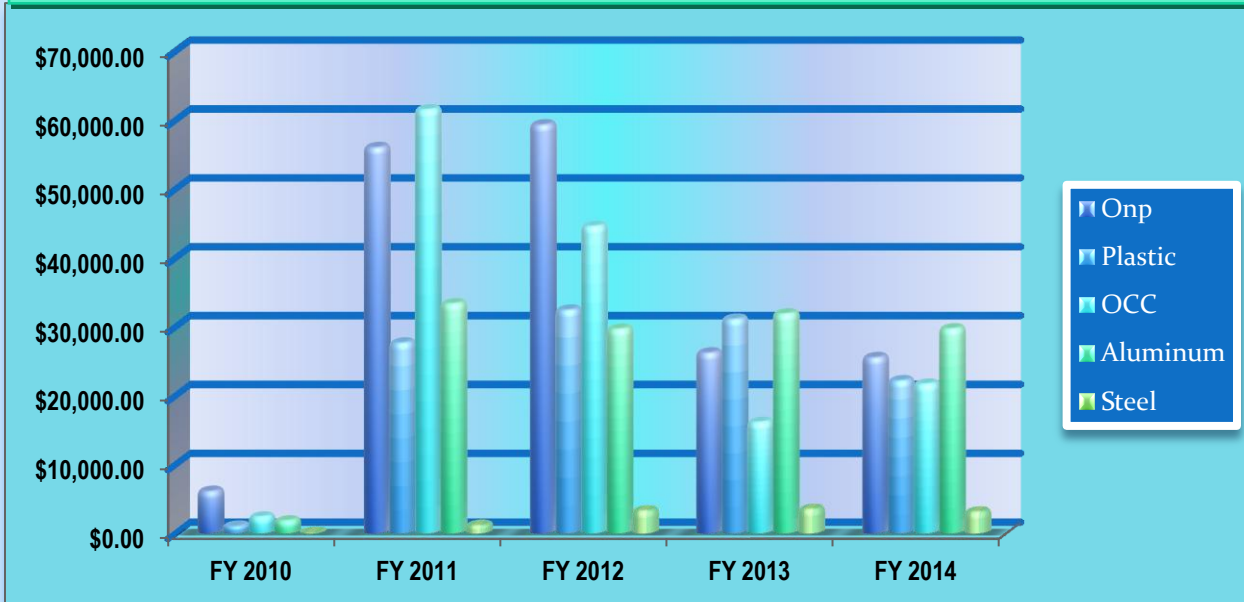




**Graph 3 Five-Year Commodity Tonnage Comparison**



**Graph 4 Five-Year Commodity Revenue Comparison**



The District Accepts Plastic Materials #1-#7



The Recycling Program did not add any new sites this fiscal year. The District was notified that the Big Sky Site will have to be moved. Jim Simon, District Manager has been meeting throughout the year with business owners, associations, and the public in Big Sky to try and find another site to relocate it. Other properties were proposed, but so far, there has been no decisions made. The site has to be moved by spring of 2015. It is a tremendously popular site for the citizens of Big Sky. The site contains one Roll-off and nine Cardboard containers (2-5-yard 7-8-yard).



# Recycling Educational Outreach

The Programs educational components are instrumental to raise awareness by educating and informing the public about the importance of recycling, what can be recycled, how to reduce waste, and associated benefits. Teaching others to be environmentally responsible in order to protect resources in Gallatin County and our beautiful State of Montana.



The District is working on developing more educational outreach opportunities in our communities each year. We strive to work on improving the services we offer within the set budget.



Jerilyn Webb, Environmental Outreach Educator

## Recycling Outreach Events



**Gallatin County Fair**

**July 17-21, 2013**



**Montana State University Catapoolaz**

**August 21-23, 2013**



**Belgrade Fall Festival**

**September 14, 2013**



**HRDC Landfill Tour**

**February 5, 2014**



**Outreach at the Hearts and Hands Montessori School  
Belgrade, Montana – Ricky the Recycle Bear**

**April 24, 2014**





Demonstrating Home Composting



The Students  
LOVE Ricky





Free E- Waste Event at the Logan Landfill

April 26, 2014



Landfill Tour Hearts and Hands Montessori School

April 30, 2014



## E-Waste Collection

The District started accepting e-waste year-round at the Logan Landfill. The fee is \$27 per ton for the general public and \$48 per ton for commercial businesses. Under 400 pounds, there is a \$5.00 minimum fee. The items accepted are listed in Table 10.

Table 16 Acceptable E-Waste Items			
Televisions	Computer Monitors	Power Supplies	Modems
Laptops	Printers	Switches	Printed Circuit Boards
Hard Drives	Fax Machines	Video Conference	Stereo Components
Gaming Consoles	VCRs	Cable and Cords	Networking Equipment
Cell Phones	Radios	Routers	Servers
Lab Equipment	Test Equipment	Keyboards	Mice
Flat Panel Displays	Computers (CPUs)	DVD Players	Telephones
Tape Drives	Microwave oven	Digital Cameras	Zip Drives

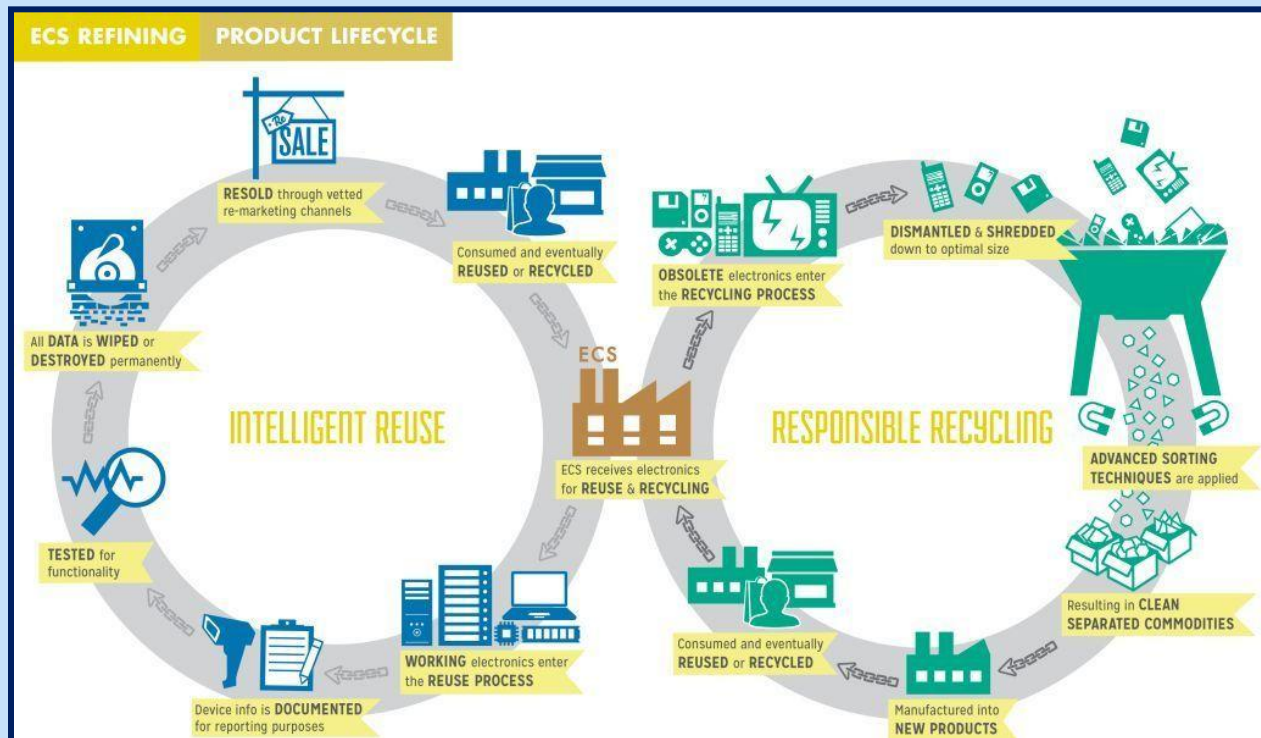




On April 26, 2014, The District held a free e-waste collection event for household residents and commercial businesses at the Logan Landfill. It was held in conjunction with Earth Day Festivities. The District had 153 customers participate in the event from around Gallatin Valley. The landfill collected 24,749 pounds (30 pallets) of e-waste. The free event cost the District approximately \$856.97 (does not include wages for the extra staff). We earned \$742.47 from the e-waste collected.

The grand total of tons of e-waste collected at the Logan Landfill through tipping fees and shipped to ECS to process this fiscal year was 142.56 tons. The District collected \$6,384 for the e-waste collected from the tipping fees. According to the records, there were 1,891 pounds difference in the pounds shipped from the Logan scales (26,640 lbs.) than the payment and certifications received from the processors (24,749 lbs.). The difference appears to be items collected that were not true e-waste.

The District used ECS Refining this fiscal year for processing the e-waste. The District gets paid three cents per pound. ECS pays for the transportation to its facilities for processing. ECS Refining developed its own unique trade marked recycling process called "Regenesys". The District looks forward to maintaining the good working relationship with ECS in the coming years.



**“Cradle to Grave” product rebirth and reuse lifecycle changes the shape of what matters most to the customers, industry, and planet through 100% processing and reuse.**



# Recycling Program Profit & Loss

## July 1, 2013 Through June 30, 2014

	Jul '13 - Jun 14
<b>Ordinary Income/Expense</b>	
<b>Income</b>	
<b>Recycling Revenue</b>	
Sale of Paper	28,793.48
Sale of Plastic	24,865.44
Sale of Aluminum	35,128.00
Sale of Steel	3,513.12
Sale of Cardboard	25,251.83
<b>Total Recycling Revenue</b>	<u>117,551.87</u>
<b>Total Income</b>	<u>117,551.87</u>
<b>Cost of Goods Sold</b>	
E-Waste Event Expenses	124.35
Recycle Processing Costs	244,517.39
<b>Total COGS</b>	<u>244,641.74</u>
<b>Gross Profit</b>	<u>-127,089.87</u>
<b>Expense</b>	
<b>Personnel</b>	
110 · Salaries & Wages- Permanent	34,408.36
120 · Overtime-Permanent	1,402.53
140 · Employer Contributions	13,918.50
141 · W.C. Employer Contributions	120.37
<b>Total Personnel</b>	<u>49,849.89</u>
<b>Maintenance</b>	
230 · Repairs & Maintenance Supplies	3,124.30
360 · General Repair & Maintenance By Other	106.75
<b>Total Maintenance</b>	<u>3,231.05</u>
<b>Small Tools</b>	
235 · Small Tools	712.55
<b>Total Small Tools</b>	<u>712.55</u>
<b>Supplies</b>	
220 · Operating Supplies	1,678.34
<b>Total Supplies</b>	<u>1,678.34</u>
<b>Insurance</b>	
513 · Liability Insurance Allocated	1,087.17
<b>Total Insurance</b>	<u>1,087.17</u>
<b>Advertising</b>	
337 · Advertising	35.00
<b>Total Advertising</b>	<u>35.00</u>
<b>Travel</b>	
370 · Travel	63.11
<b>Total Travel</b>	<u>63.11</u>
<b>Administrative Fixed Costs</b>	
590 · Administrative Costs	2,756.82
<b>Total Administrative Fixed Costs</b>	<u>2,756.82</u>
<b>Depreciation</b>	
830 · Depreciation	30,948.07
<b>Total Depreciation</b>	<u>30,948.07</u>
<b>Total Expense</b>	<u>90,362.00</u>
<b>Net Ordinary Income</b>	<u>-217,451.87</u>
<b>Net Income</b>	<u><u>-217,451.87</u></u>



# Recycle Program Balance Sheet

## July 1, 2013 through June 30, 2014



	<b>Jun 30, 14</b>
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
Cash Operational Combined	
10-1010 · Cash Operational - Recycling	-1,274,490.50
<b>Total Cash Operational Combined</b>	-1,274,490.50
<b>Total Checking/Savings</b>	-1,274,490.50
<b>Total Current Assets</b>	-1,274,490.50
<b>Fixed Assets</b>	
<b>Fixed Assets</b>	
18-6050 · Continuing Property Under \$5000	71,528.25
18-6000 · Machinery & Equipment	168,608.43
18-6100 · Allow for Depreciation - Machine & Equipment	-63,952.44
<b>Total Fixed Assets</b>	176,184.24
<b>Total Fixed Assets</b>	176,184.24
<b>TOTAL ASSETS</b>	<b>-1,098,306.26</b>
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Other Current Liabilities</b>	
Four Corners Recycling	22,103.06
20-6120 · Wages Payable	2,210.63
20-6135 · W.C. Payroll Liability Payable	53.16
20-9100 Compensated Absences Payable	18.21
<b>Total Other Current Liabilities</b>	24,366.85
<b>Total Current Liabilities</b>	24,366.85
<b>Total Liabilities</b>	24,548.98
<b>Equity</b>	
3900 · Total Net Assets	-905,403.37
Net Income	-217,269.74
<b>Total Equity</b>	-1,122,855.87
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>-1,098,306.26</b>

# Household Hazardous Waste Collection



**Beartooth  
Environmental**



The Gallatin Solid Waste Management District holds a free Household Hazardous Waste (HHW) Event to the general public the second Saturday of every month at the Bozeman Convenience Site. This year we held 12 events. Businesses are charged by the types of materials they bring in for disposal. If the business has large quantities they are referred to our HHW contractors, Beartooth Environmental or Veolia Environmental. We had a total of 363 customers attend the events. 340 were household customers and 23 commercial businesses. We collected \$2,366 from the businesses for the service. Last fiscal year, we had a total of 275 total customers. 252 were household customers and 23 were commercial businesses. We collected \$2,003 from the businesses the last fiscal year. The District had 88 more customers this year. Each year the HHW event gets more popular. The commercial businesses using the service were the same. We disposed a total of 5,074 HHW items from the events this fiscal year. We paid \$17,792.38 to Beartooth Environmental to properly dispose of the HHW collected compared to \$13,487.25 the previous year. We paid \$4,305.13 more this year with 88 more customers. We paid Beartooth Environmental \$2,438.35 for miscellaneous supplies and for proper disposal of grinding wheels found in the metal pile that contained naturally occurring radioactive material. The program did not include the District's labor, gas, and miscellaneous expenses for holding the event or after the event to bulk and prepare the HHW for shipment for receivership by the disposal service.



**Ray Harrison, HHW Specialist  
at the BCS HHW Event**

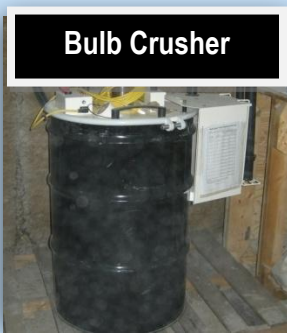


**Bozeman Convenience Site Household  
Hazardous Waste Container**

The District collects and recycles fluorescent bulbs and ballasts from the HHW program, as well as collecting them at the Logan Landfill. Because they contain mercury, increasingly, the spent fluorescent lamps are being trashed in dumpsters as a solid waste. They should not be disposed of in dumpsters. Mercury is linked to severe health issues. A single four-foot fluorescent tube contains from five to 50 milligrams of mercury. When conventional disposal methods are used, mercury vapors can travel over 200 miles. The Environmental Protection Agency (EPA) regulates fluorescent lamps and stipulates strict guidelines for their disposal.

The District purchased a bulb crusher to help save costs to the program. We receive the bulbs, crush them and send them out in bulk to be recycled. To dispose of the bulbs, the District pays by the pound, not by the bulb or by the foot for the fluorescents, which is more cost efficient. We collected 6,520 pounds of crushed bulbs and paid the Aircycle Corporation \$5,073.60 for transport to their recycling center. This does not include the District's labor for collection and crushing of the bulbs on-site. We collected 398 ballasts. We received \$1,252. We paid Aircycle \$2,624.65 for supplies to properly ship the bulbs and ballasts.

For more information on the District's program, the types of HHW materials and quantities we accept, visit our website at <http://www.gallatin.mt.gov/BCS>. On the left side of the face page of the Bozeman Convenience Site is the link to the HHW brochure.



The Gallatin Solid Waste Management District is required to operate under an Operations Manual (O&M) approved by MDEQ. Under this operations plan are policies, procedures, and contingency plans for emergency response in case of an incident that may occur during operations of the District's programs. The District Manager or any other personnel present will contact the appropriate emergency response personnel in the case of injury, fire, accident or disaster. General contingency plans are initiated by the District Manager once an employee has reported an emergency situation to him.

When emergency situations occur, a prompt, appropriate response can often limit the extent of property damage and counteract the effects of injury to personnel. A knowledge and awareness of potential hazards will be most useful in identifying causes and conditions of an emergency. The basics of the contingency plan to provide for an effective emergency response are:



Trained personnel capable of responding to fire, poisoning, accidental injury and damage, and life threatening occurrences.



Safety equipment maintained in proper working order and in designated locations.





Plan initial responses, assign responsibilities for actions and routinely review these plans and assignments.

The District budgets for specialized training each year to keep staff educated and trained to respond to all incidents.

The following diagram (Figure 3) gives the general flow as to how the contingency plan proceeds if such an incident occurs.

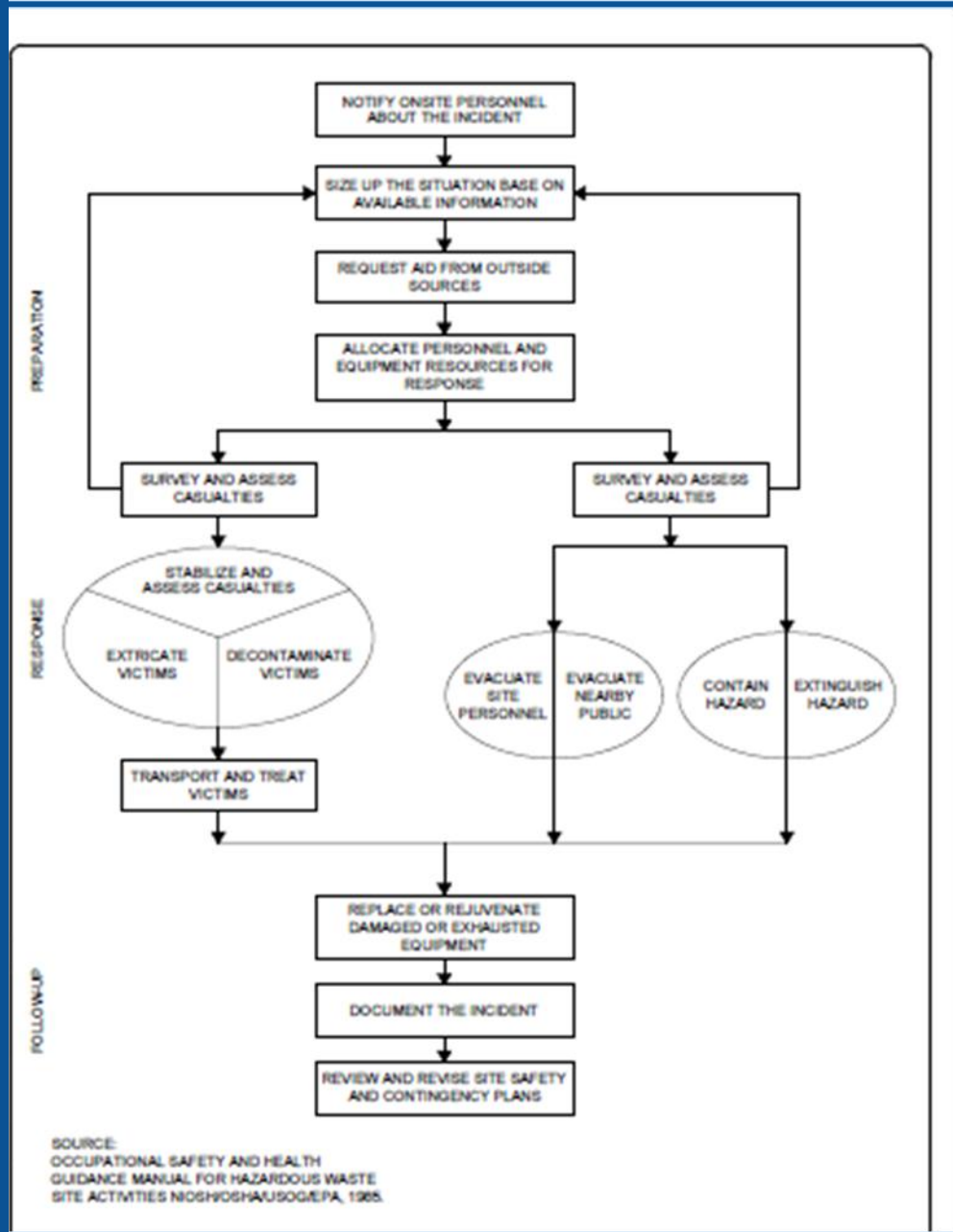


Figure 3 Contingency Plan Flow



# Financial Summary



The Gallatin Solid Waste District operates as an enterprise fund. Under GASB 34, an enterprise fund must be used to report activities described as business-type activities; the activity is financed with debt that is to be repaid solely with the net revenues and charges of the activity, or; Laws and regulations require that costs be recovered by revenues of the activity, or; The pricing policies of the activity are designed to fully recover all costs. No tax revenues are used for District operations or capital improvements. Revenues are generated by tipping fees, the sale of recycled commodities, and interest earnings.

The District's total income for the year was \$4,130,212.52. Tipping fees from Logan (\$3,488,174.04) and the Bozeman Convenience Site (\$160,020.75) accounted for \$3,648,194.79 or over 88% of the income. Sale of metal and junk salvage at the Logan Landfill totaled \$27,677.41. The sale of metal and junk salvage from the Bozeman Convenience Site totaled \$3,461.30 for a total of \$31,138.71, an increase of \$450.53. Placing a metal salvage roll off box at the Bozeman Convenience Site appears to help increase metal recycling. The Recycling program commodities collected generated \$117,551.87 in revenue. The grazing lease earned \$2,200.00. Interest earnings for the year totaled \$58,814.64. We were up \$5,172.52 from the previous year in interest earnings. Last fiscal year we were down \$6,604.77 from the previous year. Interest earnings the last four fiscal years have been about half of the \$100,000 plus interest earned in each of FY 2009 and FY 2010. FY 2009 (\$140,845); FY 2010 (\$122,930); FY 2011 (\$59,555.41); FY 2012 (\$60,246.89); FY 2013 (\$53,642.12). The District continues to strive to maintain its annual fiscal year budget.

The Equipment Reserve fund is used to pay cash for future equipment replacement. The fund balance at the end of the year was \$1,715,652.45. We transferred \$420,000.00 to the Equipment Reserve Fund this fiscal year. Operational cash at the end of the year for the Logan Landfill was \$4,266,509.12; a negative <\$657,740.99> for the Bozeman Convenience Site (since assuming operations on July 1, 2008) and; the Recycling program a negative <\$1,274,490.50> (since startup on April 1, 2008). Total cash operational combined totaled \$2,334,277.63. Fixed assets are \$6,268,534.14. The balance at the end of the year for the District's total assets was \$14,883,431.19, an increase of \$1,183,662.06 from the previous fiscal year. The required financial assurance funding for landfill closure and post closure costs had a balance of \$1,989,567.36 at the end of the fiscal year. Total long-term liabilities at the end of the year totaled \$2,623,912.10.

The District did not take on any new debt this fiscal year. Currently, the District makes a principal payment of \$62,500.00 twice a year to the State Board of Investments for the Logan Springs Ranch property purchased in 2010. Each semi-annual payment pays \$62,500.00 towards the principal. The interest rate is 1%. At the end of the fiscal year we owed \$812,500.00. The District/County is working to improve the property in anticipation of a land swap of property in exchange for State land that we currently lease. This action is part of our plan for future expansion of the landfill.



Each year we pay rent to the Department of Natural Resource and Conservation (DNRC) for land leases used in the landfill operation: Rent for the 8-acre parcel (scalehouse and administration building) = \$6,290.81. Each year the rent goes up 3%; the 40 acre parcel the landfill uses to stockpile excavated dirt costs \$19,168.00. We reserved \$300,000.00 this year for the next Cell to be constructed for Phase 4 of the Master Plan.

The landfill incurs considerable insurance that is required for permitting to keep in compliance with new rules and changes in laws. We paid \$43,220.00 to MDEQ for our annual landfill permit. That was \$4,438.15 less than the last fiscal year due to the District's diversion programs.

We paid \$16,852.18 a year for our pollution insurance above Gallatin County's allocated liability insurance cost to us of \$31,841.53 up \$586.73 from last fiscal year.

The Profit and Loss and Balance Sheets for July 1, 2013 through June 30, 2014, show the year's revenues, operating expenditures, assets, and liabilities. We continue to bring the services our customers want, at affordable prices. This year we saw waste volumes go up 4,739.03 tons (108,212.55 total tons), compared to the past three years of declining waste volumes. Evaluating the twelve months, the increase seems attributable to the economy steadily improving with the increase of construction in Gallatin Valley. Table 17 shows the three-year decrease prior to this Fiscal Year.

Table 17		
	Actual Tonnages Received	Decreased Tonnage From Previous Years
Fiscal Year 2010-2011	115,389.09	16,781.09
Fiscal Year 2011-2012	105,665.34	9,723.75
Fiscal Year 2012-2013	103,473.52	2,191.82

The District leases the Bozeman Convenience Site from the City of Bozeman under an Interlocal Agreement that commenced on July 1, 2008. In June of 2013, the District renewed the agreement for another five years beginning July 1, 2013. Under the agreement, the District pays the City of Bozeman 80% of the compost being disposed of on-site to help maintain it with their equipment. The District receives 20% of the revenue. The District paid the City of Bozeman \$7,978.40 this fiscal year for the compost disposed of at the Bozeman Convenience Site scale.



**Gallatin Solid Waste Management District Long Range Strategic Plan**

Fiscal Year	2014	2015	2016	2017	2018	2019
<b>Tonnage</b>	108,212	104,700	105,700	106,800	107,900	109,000
<b>CAPITAL OUTLAY</b>						
Land (Logan Springs)						
Buildings (Shop, Admin)						
Wash Bay	\$ 66,721	\$ 115,997				
Improvements on Land			\$ 20,000			
Logan Springs/Land Swap	\$ 30,865	\$ 75,000				
Public Tipping Area						
Corrective Measures		\$ 60,000				
Compost Area	\$ 74,365	\$ 125,000				
HHW Building						
Trees/Flood Reclamation	\$ -	\$ 20,000				
Fence/ Screens/ Concrete	\$ 3,424	\$ 25,000	\$ 25,000	\$ 25,000		
Cell 4 Construction	\$ 13,560	\$ 25,000	\$ 25,000	\$ 25,000	\$ 1,000,000	\$ 1,000,000
<b>Equipment Reserve</b>	\$ 420,000	\$ 420,000	\$ 420,000	\$ 420,000	\$ 420,000	\$ 420,000
<b>Year End</b>	<b>\$1,715,652</b>	<b>\$ 1,876,772</b>	<b>\$ 1,459,272</b>	<b>\$ 1,355,772</b>	<b>\$ 1,455,772</b>	<b>\$ 1,420,772</b>
<b>Equipment</b>						
HHW Lockers	\$ -					
Haul Truck	\$ 200,000					
Trackhoe/Excavator	\$ 146,580					
Compactor (772HR)						
Compactor (826H)			\$ 600,000			
Cat (826H) Wheels						
Scraper						
Dozer		\$ 250,000				
Agri-Tractor (used)						
Windrow Turner						
Front Loader						\$ 300,000
863 track						
973 Track				\$ 400,000		
Grader					\$ 250,000	
Water Truck				\$ 100,000		
Toyota Pickup						
Pickup (3/4 Chev)						\$ 40,000
Pickup (snow plow)					\$ 40,000	
Roll-Off Truck			\$ 225,000			
2012 Dodge Ram						
Admin Vehicle					\$ 30,000	
Service Truck (Used)						
Hydroseeder (ADC)						\$ 50,000
<b>Other Assets</b>						
Computers	\$ 1,215	\$ 2,000		\$ 13,000		\$ 15,000
SQL Update	\$ 17,896					
Copier	\$ 1,195			\$ 10,500		
Hydraulic Press						
Bulb Grinder						
CFL Crusher						
Manlift						
Rotary Cutter						
Hookm bins						
Dump bed						
Eye wash station	\$ -	\$ 4,880				
BOS Camera System						
Radiation Detector	\$ 2,895					
Two Way Radios	\$ 4,646					
Public Tipping Area Lid						
Skidsteer Sweeper						
Pallet Jack						
E-waste stacker-Fontit						
E-Waste Container-Bzn						
Bzn Site Skid Steer						
Pump for Spring						
Waste Oil Containers - 2			\$ 6,000			
HHW Barrel Scale		\$ 2,000				
Bzn Roll-off Containers						
Bzn Stationary Compact						
Recycling Containers			\$ 6,500			\$ 50,000
<b>Total</b>	<b>\$ 374,425</b>	<b>\$ 258,880</b>	<b>\$ 837,500</b>	<b>\$ 523,500</b>	<b>\$ 320,000</b>	<b>\$ 455,000</b>

# Gallatin Solid Waste Management District

## Profit & Loss

July 1, 2013 Through June 30, 2014



	Jul '13 - Jun 14
<b>Ordinary Income/Expense</b>	
<b>Income</b>	
Gain (Loss) on Equipment Trade In	261,921.52
E-Waste Hauled Out	8,583.99
Charges for Services-Logan	
3430-42 · Disposal Charge	3,503,989.12
3430-45 · Sale of Junk or Salvage	27,677.41
<b>Total Charges for Services-Logan</b>	<b>3,531,666.53</b>
Grazing Lease	2,200.00
Charges for Services-Bozeman	
HHW	1,807.00
Disposal Charge	160,020.75
Sale of Junk or Salvage	3,461.30
<b>Total Charges for Services-Bozeman</b>	<b>165,289.05</b>
Recycling Revenue	
Sale of Paper	28,793.48
Sale of Plastic	24,865.44
Sale of Aluminum	35,128.00
Sale of Steel	3,513.12
Sale of Cardboard	25,251.83
<b>Total Recycling Revenue</b>	<b>117,551.87</b>
3710-10 · Interest Earnings	58,814.64
<b>Total Income</b>	<b>4,146,027.60</b>
<b>Cost of Goods Sold</b>	
E-Waste Event Expenses	856.97
80% Compost due to City	7,978.40
Transport from BCS	
Rolloff Containers	102,510.00
Stationary Compactor Containers	6,432.00
<b>Total Transport from BCS</b>	<b>108,942.00</b>
Recycle Processing Costs	244,517.39
<b>Total COGS</b>	<b>362,294.76</b>
<b>Gross Profit</b>	<b>3,783,732.84</b>
<b>Expense</b>	
Amortization	928.68
335 · Membership Dues	640.00
Tax Assessments	
540 · Tax Assessments	6.60
<b>Total Tax Assessments</b>	<b>6.60</b>
Personnel	
110 · Salaries & Wages-Permanent	604,738.62
120 · Overtime-Permanent	14,771.04
140 · Employer Contributions	222,857.49
141 · W.C. Employer Contributions	15,458.15
<b>Total Personnel</b>	<b>857,825.30</b>
Maintenance	
230 · Repairs & Maintenance Supplies	71,414.90
232 · Tires	8,588.58
360 · General Repair & Maintenance by Other	7,020.95
361 · Equipment Repairs & Maintenance	20,716.10



362 · Office Equipment Repair & Maintenance 6,785.16

Total Maintenance	114,525.69
Small Tools	
240 · Consumable Tools	1,546.75
235 · Small Tools	3,877.05
Total Small Tools	5,423.80
Utilities	
341 · Electric Utilities	18,334.96
344 · Propane	10,167.51
345 · Telephone	21,876.38
346 · Cell Phones	1,982.10
Total Utilities	52,360.95
Supplies	
221 · Software	449.95
210 · Office Supplies	3,355.14
220 · Operating Supplies	87,389.58
224 · Food	559.95
226 · Clothing & Uniforms	1,980.21
Total Supplies	93,734.83
Insurance	
510 · Property Insurance	16,852.18
513 · Liability Insurance Allocated	31,841.53
Total Insurance	48,693.71
Fuel	
231 · Gas, Oil, Fuel, Grease	167,808.00
Total Fuel	167,808.00
Postage	
312 · Postage	1,955.10
Total Postage	1,955.10
Printing & Duplicating	
320 · Printing & Duplicating	1,179.94
Total Printing & Duplicating	1,179.94
Advertising	
331 · Publications Legal Notices	420.00
337 · Advertising	3,406.73
Total Advertising	3,826.73
Travel	
370 · Travel	2,395.40
Total Travel	2,395.40
Training	
380 · Training	766.00
Total Training	766.00
Outside Services	
350 · Professional Services	
Corrective Measures	13,907.90
350 · Professional Services-Other	138,646.45
Total 350 · Professional Services	152,554.35
351 · Medical Services, Vet Services	224.00
390 · Purchased or Contracted Service	16,905.95
Total Outside Services	169,684.30
Licenses	
570 · License Fees	45,476.80
Total Licenses	45,476.80
Rent	
530 · Rent	31,230.63
Total Rent	31,230.63
Service Charges	
630 · Service Charges	3.98
Total Service Charges	3.98
Administrative Fixed Costs	
590 · Administrative Costs	28,171.60
Total Administrative Fixed Costs	28,171.60
Closure/Post Closure	
580 · Closure/Post Closure Costs	122,280.19
Total Closure/Post Closure	122,280.19
Loan Interest Payments	
620 · Loan Interest	5,573.20
Total Loan Interest Payments	5,573.20
Depreciation	

830 · Depreciation	824,285.11
<b>Total Depreciation</b>	<b>824,285.11</b>
<b>Total Expense</b>	<b>2,578,776.54</b>
<b>Net Ordinary Income</b>	<b>1,204,956.30</b>
<b>Other Income/Expense</b>	
<b>Other Expense</b>	
Loss on Sale of Equipment	2,052.52
<b>Loan Payments</b>	
610 · Principal	125,000.00
615 · Principal Contra	-125,000.00
<b>Total Loan Payments</b>	<b>0.00</b>
<b>Reserve Funds</b>	
905 · Equipment/Next Cell Reserves	720,000.00
955 · EQUIP/NEXT CELL RESERVE CONTRA	-720,000.00
<b>Total Reserve Funds</b>	<b>0.00</b>
<b>Capital Improvements</b>	
920 · Buildings	90,302.54
925 · Buildings Contra	-90,302.54
930 · Improvement Other Than Buildings	130,091.49
935 · Improvements Contra	-130,091.49
940 · Capital Expense-Machinery & Equipment	256,430.01
945 · Machinery & Equipment Contra	-256,430.01
<b>Total Capital improvements</b>	<b>0.00</b>
<b>Total Other Expense</b>	<b>2,052.52</b>
<b>Net Other Income</b>	<b>-2,052.52</b>
<b>Net Income</b>	<b>1,202,903.78</b>





# Gallatin Solid Waste Management District Balance Sheet July 1, 2013 Through June 30, 2014

	Jun 30, 14
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
<b>Cash Operational Combined</b>	
10-1000 · Cash Operational	4,266,509.12
10-1005 · Cash Operational-BCS	-657,740.99
10-1010 · Cash Operational - Recycling	-1,274,490.50
<b>Total Cash Operational Combined</b>	2,334,277.63
10-2000 · Restricted Cash-Closure Costs	1,989,567.36
10-2110 · Cash - Fixed Asset Purchases	1,715,652.45
10-2130 · Cash Reserved for Security Deposit	88,500.00
10-2210 · Loan Payment Reserve	62,500.00
10-2220 · Loan Reserve (Future Year Payment)	125,000.00
10-2230 · Reserve for Next Cell	1,750,000.00
<b>Total Checking/Savings</b>	8,065,497.44
<b>Accounts Receivable</b>	
<b>Accounts Receivable</b>	
12-2000 · Logan Landfill	564,267.69
12-2005 · Bozeman Convenience Site	947.00
<b>Total Accounts Receivable</b>	565,214.69
<b>Total Current Assets</b>	8,630,712.13
<b>Fixed Assets</b>	
<b>Fixed Assets</b>	
18-6050 · Continuing Property Under \$5000	179,272.81
18-1000 · Land	1,650,785.00
18-2000 · Buildings	1,602,577.77
18-2100 · Allow for Depreciation-Buildings	-231,493.89
18-3000 · Intangibles	6,965.00
18-3100 · Amortization	-6,965.00
18-4000 · Improvement Other Than Buildings	2,977,815.59
18-4100 · Allow for Depreciation-Improvement Other Than	-2,312,989.52
18-6000 · Machinery & Equipment	3,909,296.91
18-6100 · Allow for Depreciation-Machine & Equipment	-2,040,642.42
18-8005 · CIP - Shop Wash Bay/Tank	94,003.14
18-8010 · CIP - Cell 4 Expansion	25,490.55
18-8015 · CIP - Compost Expansion	74,365.57
18-8020 · CIP - Logan Springs	30,865.38
18-8500 · Class 4 Waste Area	35,433.23
<b>Total Fixed Assets</b>	5,994,780.12
<b>Total Fixed Assets</b>	5,994,780.12
<b>TOTAL ASSETS</b>	<b>14,625,492.25</b>
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Other Current Liabilities</b>	
City of Bozeman	11,611.20
Four Corners Recycling	22,103.06
20-6120 · Wages Payable	19,187.29

20-6130 · Payroll Liabilities	16,992.30
20-6135 · W.C. Payroll Liability Payable	2,664.96
20-9100 · Compensated Absences Payable	5,618.25
21-4000 · Security Deposits Payable	88,500.00
Current Portion-Long Term Debt	<u>125,000.00</u>
Total Other Current Liabilities	<u>291,677.06</u>
Total Current Liabilities	291,677.06
Long Term Liabilities	
23-5406 · Land Loan - Board of Investment	812,500.00
Current Portion	-125,000.00
23-6000 · Closure Cost Liability	1,850,675.70
23-9000 · Compensated Absences-Non-Current	50,564.41
23-9500 · GASB 45 OPEB Net Obligation	<u>49,190.30</u>
Total Long Term Liabilities	<u>2,637,930.41</u>
Total Liabilities	2,929,607.47
Equity	
3000 · Net Assets	1,126,924.76
3900 · Total Net Assets	9,366,056.24
Net Income	<u>1,202,903.78</u>
Total Equity	<u>11,695,884.78</u>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b><u>14,625,492.25</u></b>

