

**CARROLL-GRAYSON-GALAX SOLID WASTE AUTHORITY
AGENDA
SWA BUSINESS OFFICE
HILLSVILLE, VA
April 26, 2019
12:00 NOON**

- 1. Call to order**
- 2. Consent Agenda**
 - A. Approval of Minutes**
 - B. Approval of Expenditures**
 - C. Approval of Merchant Statement, Investments, & Cash Balance Report**
 - D. Approval of Budget Report & Ledger**
 - E. Materials Report**
- 3. Engineering Report**
- 4. Landfill Manager's Report**
- 5. Old Business**
- 6. New Business**
- 7. Adjourn**

**CARROLL-GRAYSON-GALAX
SOLID WASTE AUTHORITY
MEETING MINUTES
MARCH 22, 2019
SWA BUSINESS OFFICE
HILLSVILLE, VA
12:00 NOON**

MEMBERS PRESENT: C.M. Mitchell, Keith Barker, Willie Greene, Steve Truitt,
Mitch Smith, Bob Martin, and Brenda Sutherland

OTHERS PRESENT: Allen Lawson, Landfill Manager; Kimberly Bunn, Secretary,
Don Marickovich and Carrie Blankenship, Draper Aden

MEMBERS ABSENT: William Shepley, and Sam Dickson

CALL TO ORDER:

Mr. Mitchell called the meeting to order.

APPROVAL OF CONSENT AGENDA:

Upon motion by Mr. Truitt, seconded by Ms. Sutherland, and duly carried, the Authority approved the Consent Agenda as presented.

ENGINEERING REPORT:

- Mr. Marickovich stated that the solid waste management plan requires a five-year update. That plan is basically a plan for the next 20 years on what you are going to do with your solid waste and recycling. The update was done in 2016 in letter form. The DEQ is just now looking at it. The next update is due in 2021 and Draper Aden is going to try to put them off until that date to include the permit amendment. Next year's budget has some money in it for this incase DEQ does not accept the letter. Mr. Marichovich stated that they were working on a major permit amendment to reconfigure the landfill to do cell VI. They are currently working on the drawings to be submitted to the DEQ in June 2019 and after that would be to start the design of cell VI which needs to be constructed in FY 21/22. Draper Aden met at the landfill on Wednesday to talk about the adjacent property. Mr. Lawson wants to develop the erosion and sediment control plan for the property to be able to use soil from it. The major construction will be a sed basin and once designed, Mr. Lawson and the landfill employees are planning on building it in house. That will save the Authority approximately \$150,000 dollars. Mr. Marickovich stated they were going to submit the plan for approval before the end of this fiscal year. Mr. Marickovich stated that they came in under budget this year on the cell construction and they are recommending that the landfill be flown with the drone before the end of this fiscal year and use the remaining funds for that. That will give the Authority a new compaction update and let you know how much capacity is left in cell I and cell II and give a better timing of when cell VI needs to be built.
- Ms. Blankenship stated that the background well that needed to be replaced has been completed and sampled for the first semi-annual event. Draper Aden also submitted the annual groundwater reports for both permits. Both landfills continue to be in compliance with the lowest form of monitoring. The stormwater was collected for all five outfalls last month and the first half of the year sampling is completed. The results are back and will be submitted. Mr. Marickovich stated that gas probe monitoring was also completed for the first quarter and no gas was detected.

LANDFILL MANAGER'S REPORT:

- **Proposed Budget FY20**
Mr. Lawson stated that the proposed budget is attached. Under salaries, Mr. Lawson stated that he did put in a 3 percent cost-of-living allowance. Mr. Lawson stated that the only other thing he had to point

out was on line item 8500 (equipment capital improvement), \$328,000 was put there and only \$41,000 is needed to pay off the loan on the new compactor. The rest of that line item will be used if needed or it will be transferred to an LGIP account if it is not needed. Mr. Lawson stated that the rock had been reduced significantly due to all the rock that was crushed during the last construction. Mr. Barker inquired if a revenue sheet was included. Mr. Lawson stated that we looked at the tipping fees from the last 6 months and the last 3 months on average, and took the lowest of the two numbers which is the anticipated revenue listed on the last column at the bottom of the proposed budget. That number is up and the tipping fee increase is included. Mr. Martin inquired what was the life expectancy of the whole landfill. Mr. Marickovich stated that the last aerial showed approximately 50 years left.

Mr. Barker asked Mr. Lawson to talk a little bit more about the funds placed in the equipment capital improvement line item. Mr. Lawson stated that there are hundreds of excavators out on lease for the Mountain Valley Pipeline project. The salesmen from James River Equipment and Carter Machinery both are telling him that the market is going to be flooded with good used excavators with low hours. Mr. Lawson had mentioned to Mr. Barker that the landfills excavator is a 1997 model with quite a few hours on it. Mr. Lawson stated that there might be an opportunity to replace that excavator with a much newer, better machine, and keep the old one for a spare. Getting a second machine would free the other excavator up for the localities use as projects arise. Mr. Lawson stated that it could save all three localities a large amount of money and the routine maintenance would be provided by the Landfill. Mr. Lawson stated that he would keep the Board informed if the opportunity were to arise.

Upon motion by Ms. Sutherland, seconded by Mr. Truitt, and duly carried, the Authority approved the FY20 budget as presented.

- **Engineering Proposal (Set Review Committee)**

Mr. Lawson stated a review committee needed to be approved for the engineering proposals. Mr. Lawson stated that typically it was himself and each administrator and Mr. Shepley would like to pass his down to Mr. Smith.

Upon motion by Ms. Sutherland, seconded by Mr. Greene, and duly carried, the Authority approved the engineering proposal review committee to consist of Mr. Lawson, Mr. Truitt, Mr. Baker, and Mr. Smith.

- **HHW Event April 6, 2019**

Mr. Lawson stated that the next HHW Event will be held on April 6, 2019 at the City of Galax public works from 8-11 and the Grayson County public works from 1-4. There will not be a landfill representative present but he would be available by phone to answer any questions if needed.

- **Equipment Update**

Mr. Lawson stated that all equipment is doing fine.

Mr. Lawson suggested that the next Board Meeting be on April 26, 2019, skip the May meeting, and have the steak cookout in June 2019.

OLD BUSINESS:

NEW BUSINESS:

ADJOURN:

Upon motion by Mr. Smith, the meeting was adjourned. The next meeting will be on April 26, 2019.

C.M. Mitchell, Chairman

Kimberly Bunn, Secretary

10:21 AM
04/22/19
Accrual Basis

Carroll-Grayson-Galax Solid Waste Authority

Check Register

April 1 - 26, 2019


Date	Num	Source Name	Amount
Apr 1 - 26, 19			
04/03/2019	ONLINE	CENTURYLINK	-339.02
04/26/2019	3596	A PLUS FIRE AND SAFETY	-726.99
04/26/2019	3597	APPALACHIAN NATURAL GAS DISTRIBUTION CO.	-302.60
04/26/2019	3598	APPALACHIAN POWER	-470.41
04/26/2019	3599	ARC3 GASES	-72.50
04/26/2019	3600	B&B TIRE SERVICE INC	-36.00
04/26/2019	3601	BUSINESS CARD	-224.60
04/26/2019	3602	CAROLINA SOFTWARE	-732.26
04/26/2019	3603	CARTER BANK & TRUST	-8,152.27
04/26/2019	3604	CARTER MACHINERY CO INC	-27,661.64
04/26/2019	3605	COMMONWEALTH DOCUMENT MANAGEMENT	-1,800.00
04/26/2019	3606	DIVERSIFIED INTEGRATION, INC	-830.00
04/26/2019	3607	DRAPER ADEN ASSOCIATES	-14,644.30
04/26/2019	3608	GUYNN HARDWARE & FURNITURE	-4.74
04/26/2019	3609	HIGH COUNTRY SPRINGS BOTTLED WATER	-60.50
04/26/2019	3610	JAMES RIVER EQUIPMENT - SALEM	-751.22
04/26/2019	3611	JAMES RIVER SOLUTIONS	-4,231.87
04/26/2019	3612	LGIP INVESTMENT FUND	-32,965.83
04/26/2019	3613	LOWE'S	-207.60
04/26/2019	3614	MANSFIELD OIL COMPANY	-310.01
04/26/2019	3615	MERRITT SUPPLY INC	-10.51
04/26/2019	3616	NAPA AUTO PARTS OF HILLSVILLE	-284.50
04/26/2019	3617	NEW RIVER TIRE RECYCLING	-6,831.45
04/26/2019	3618	OMEGA OFFICE SUPPLY & PRINTING	-14.00
04/26/2019	3619	ONE STOP AUTO SERVICE OF CARROLL	-55.00
04/26/2019	3620	PACE ANALYTICAL SERVICES INC	-192.00
04/26/2019	3621	SOLID WASTE ASSOCIATION OF NORTH AM	-268.00
04/26/2019	3622	SOWERS CONSTRUCTION CO INC	-22,000.00
04/26/2019	3623	SS CARROLL CO COOP INC	-2,247.99
04/26/2019	3624	THE PAPER CLIP	-365.26
04/26/2019	3625	TOWN OF HILLSVILLE	-80.97
04/26/2019	3626	TREASURER OF CARROLL COUNTY	-54,158.05
04/26/2019	3627	TREASURER OF VIRGINIA DEQ	-500.00
04/26/2019	3628	U.S. CELLULAR	-171.00
04/26/2019	3629	UNIFIRST CORPORATION	-230.11
Apr 1 - 26, 19			<u><u>-181,933.20</u></u>

C.M. Mitchell, Chairman

Steve Truitt, Director

BLUEPAY
1000 CONTINENTAL 300 KING OF PRUSSIA, PA 19406

YOUR CARD PROCESSING STATEMENT

6128 1 AB 0.409
006128/000001/825609/A3STMT1MDG001/6128/0000/038789 032 01 000000
 CARROLL GRAY GALAX SOL WASTE
PO BOX 1837
HILLSVILLE VA 24343-7837

Page 1 of 7 *THIS IS NOT A BILL*

Statement Period	03/01/19 - 03/31/19
Merchant Number	5432 5702 0106076
Customer Service	1-877-828-0720



Location:
CARROLL SOLID WASTE
162 LANDFILL RD
HILLSVILLE VA 24343

Page 4	Amount Submitted	\$18,062.00
Page 4	Third Party Transactions	0.00
Page 4	Adjustments/Chargebacks	0.00
Page 4	Fees Charged	-\$649.54
Total Amount Funded to Your Bank		\$17,412.46

See page 2 for Key Definition of Terms

(Amount Submitted - Third Party) + Adjustments + Chargebacks + Fees Charged = Amount Funded

IMPORTANT INFORMATION ABOUT YOUR ACCOUNT

RECEIVED APR 18 2019 AL

BRUCE TERRY

Raymond James Financial Services, Inc.
RAYMOND JAMES FINANCIAL SVCS | FIRST COMMUNITY BANK
1707 JEFFERSON ST.
BLUEFIELD, WV 24701 | (304) 325-7334
Bruce.Terry@RaymondJames.com

370311021799 02 AB 0.409 85 8002 3



CARROLL-GRAYSON-GALAX
SOLID WASTE AUTHORITY
PO BOX 1837
HILLSVILLE VA 24343-7837379

Raymond James Client Services
800-647-SERV (7378)
Monday - Friday 8 a.m. to 9 p.m. ET

Online Account Access
raymondjames.com/clientaccess

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Carroll-Grayson-Galax Account Summary - #30602599

Value This Statement

\$3,995,214.48

Last Statement

Prior Year-End

\$3,982,366.51

\$3,944,449.11

Dollar-Weighted Performance*

YTD

Annualized Since 11/03/2014

1.56%

1.20%

	This Statement	Year to Date
Beginning Balance	\$3,982,366.51	\$3,944,449.11
Deposits	\$0.00	\$0.00
Income	\$2,487.97	\$10,782.87
Withdrawals	\$0.00	\$0.00
Expenses	\$0.00	\$0.00
Change in Value	\$10,360.00	\$39,982.50
Ending Balance	\$3,995,214.48	\$3,995,214.48

Performance Inception: 11/03/2014

Important Messages

- Your primary objective is Capital Preservation, with a low risk tolerance and a time horizon less than 5 years.
- Your secondary objective is Income, with a low risk tolerance and a time horizon less than 5 years.



Investor Statement

Page 1 of 2

for the period of: March 1, 2019 - March 29, 2019



Investor Services: 1-800-643-7800



CARROLL GRAYSON GALAX
SOLID WASTE AUTHORITY
PO BOX 1837
HILLSVILLE VA 24343-7837

000641

Investment Rep: Default
Investment Rep. No: DEFAULT

Broker/Dealer: Carroll-Grayson-Galax Solid Waste
Auth
PO Box 1837
Hillsville VA 24343-7837

Dealer/Branch: 10046/CARGRAY

Portfolio at-a-Glance

Portfolio Value Beginning 03/01/2019	\$840,589.20
+ Purchases	\$0.00
- Withdrawals	\$0.00
Portfolio Value Ending 03/29/2019	\$842,426.42

Portfolio Summary

Account Number	Fund Name	Shares	Share Price	Market Value on 03/29/2019	% of Account Holdings
278697000	Commonwealth Of Virginia - LGIP	842,426.420	\$1.00	\$842,426.42	100.0%
CARROLL GRAYSON GALAX SOLID WASTE AUTHORITY					

Account Transactions

Account Number	Trade Date	Transaction Description	Dollar Amount	Share Price	Shares this Transaction	Total Shares Owned
278697000		Beginning Balance as of 03/01/2019	\$840,589.20	\$1.00		840,589.200
	03/29/19	INCOME REINVEST	\$1,837.22	\$1.00	1,837.220	842,426.420
		Ending Balance as of 03/29/2019	\$842,426.42	\$1.00		842,426.420
CARROLL GRAYSON GALAX SOLID WASTE AUTHORITY						

Distributions: Dividends Cap Gains
REINVEST REINVEST

The Average Monthly Yield for March 2019 was 2.573%.
The Effective Monthly Yield for March 2019 was 2.604%.

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Investor Statement

Page 1 of 2

for the period of: March 1, 2019 - March 29, 2019



Investor Services: 1-800-643-7800



CARROLL GRAYSON GALAX
SOLID WASTE AUTHORITY
PO BOX 1837
HILLSVILLE VA 24343-7837

000640

Investment Rep: Default
Investment Rep. No: DEFAULT

Broker/Dealer: Carroll-Grayson-Galax Solid Waste
Auth
PO Box 1837
Hillsville VA 24343-7837

Dealer/Branch: 10046/CARGRAY

Portfolio at-a-Glance

Portfolio Value Beginning 03/01/2019	\$624,610.27
+ Purchases	\$30,208.77
- Withdrawals	\$0.00
Portfolio Value Ending 03/29/2019	\$656,194.98

Portfolio Summary

Account Number	3600050	Fund Name	Shares	Share Price	Market Value on 03/29/2019	% of Account Holdings
CARROLL GRAYSON GALAX SOLID WASTE AUTHORITY		Commonwealth Of Virginia - LGIP	656,194.980	\$1.00	\$656,194.98	100.0%

Account Transactions

Account Number	3600050	Trade Date	Transaction Description	Dollar Amount	Share Price	Shares this Transaction	Total Shares Owned
Commonwealth Of Virginia - LGIP/3064			Beginning Balance as of 03/01/2019	\$624,610.27	\$1.00		624,610.270
		03/27/19	SHARES PURCHASED - WIRE	\$30,208.77	\$1.00	30,208.770	654,819.040
CARROLL GRAYSON GALAX SOLID WASTE AUTHORITY		03/29/19	INCOME REINVEST	\$1,375.94	\$1.00	1,375.940	656,194.980
			Ending Balance as of 03/29/2019	\$656,194.98	\$1.00		656,194.980

Distributions: Dividends Cap Gains
REINVEST REINVEST
The Average Monthly Yield for March 2019 was 2.573%.
The Effective Monthly Yield for March 2019 was 2.604%.

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CARROLL-GRAYSON-GALAX SOLID WASTE AUTHORITY
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN CASH BALANCE
MONTH OF MARCH 2019

	<u>TOTAL</u>	<u>Revenue Year to Date</u>
	Operations Account	
BEGINNING CASH BALANCE	\$490,315.02	
REVENUE COLLECTED:		
TIPPING FEES	174,609.71	
INTEREST REVENUE	4.42	
MISCELLANEOUS		
RECYCLING	875.00	
CHECK - STOP PAYMENT		
LGIP TRANSFER OF FUNDS		
DEPOSITS IN TRANSIT	5,436.50	
TOTAL REVENUE COLLECTED	\$180,925.63	\$1,709,139.17
EXPENSES PAID:		
MONTHLY EXPENSES	112,928.36	
BAD CHECKS		
CREDIT CARD FEES	356.83	
SERVICE CHARGES		
ONLINE BILL PAYMENTS	339.02	
WIRE TRANSFER FOR PROPERTY		
TOTAL EXPENSES PAID	113,624.21	
ENDING CASH BALANCE	\$557,616.44	

CARROLL-GRAYSON-GALAX SWA
BUDGET REPORT APRIL 2019

CATEGORY	BUDGET AMOUNT	EXPENDITURES	BALANCE
1001 Salaries	360,000.00	274,546.80	85,453.20
2001 Benefits	175,000.00	129,693.66	45,306.34
3002A Eng. Services LF Const.	51,500.00	9,287.97	42,212.03
3002I Landfill Gas	9,900.00	4,567.43	5,332.57
3002J Aerial Survey & Cap Study	0.00	0.00	0.00
3002O Groundwater Monitoring	62,500.00	55,432.47	7,067.53
3002T Storm water Sampling	16,000.00	10,826.63	5,173.37
3002U Title V Air Quality Per.	5,200.00	6,287.90	-1,087.90
3002V Tier II Testing	5,000.00	2,647.20	2,352.80
3003 Cell Construction / Closure	2,037,870.00	1,868,313.44	169,556.56
3005 Equipment	15,000.00	7,307.76	7,692.24
5101 Utilities	12,000.00	8,567.91	3,432.09
5102 Fuel	90,000.00	57,949.51	32,050.49
5203 Telephone	8,000.00	5,123.74	2,876.26
5400 Office Equipment	8,300.00	6,016.80	2,283.20
5401 Office Supplies	4,500.00	4,470.27	29.73
5401A Office Equipment Lease	1,500.00	893.70	606.30
5401B Office Equipment Sup.	800.00	1,200.00	-400.00
5401C Advertising	3,500.00	2,187.37	1,312.63
5401D Audit	9,500.00	8,950.00	550.00
5408 Equipment Repair	85,000.00	78,033.08	6,966.92
5415 Misc. Supplies	12,000.00	5,739.88	6,260.12
5415A Uniforms/Supplies	5,500.00	2,965.78	2,534.22
5415B Rock	25,000.00	6,250.00	18,750.00
5415C Wood Grinding	12,000.00	12,000.00	0.00
5415D Tire Disposal	35,000.00	31,642.10	3,357.90
5415F Paving	15,000.00	15,000.00	0.00
5415G Catering	2,500.00	1,068.76	1,431.24
5418 Recycling	3,000.00	1,251.75	1,748.25
5419 Building Maintenance	6,000.00	317.60	5,682.40
5420 Insurance	22,000.00	16,053.00	5,947.00
5425 Legal Fees	12,000.00	125.00	11,875.00
5430 DEQ	20,000.00	10,977.48	9,022.52
5435 Seminars	1,800.00	959.16	840.84
5439 Community Economic Dev.	275,000.00	245,875.00	29,125.00
5440 Leachate Treatment Fee	25,000.00	33,553.76	-8,553.76
5441 HHW / Shredding	35,000.00	16,148.00	18,852.00
6000 Land Acquisition	0.00	0.00	0.00
0050 LGIP	360,000.00	324,049.14	35,950.86
8000 Employee Contingency	10,000.00	974.52	9,025.48
8500 Equipment Capital Improvement	100,000.00	81,362.59	18,637.41
TOTAL			
	\$3,937,870.00	\$3,348,617.16	\$589,252.84

**CARROLL-GRAYSON-GALAX
SOLID WASTE AUTHORITY
LEDGER SUMMARY
FY 19**

07/09/18	CenturyLink Online Payment	332.81	
07/25/18	Expenditures (Ck 3324-3350)	256,649.08	
	TOTAL FOR JULY	256,981.89	256,981.89
08/03/18	CenturyLink Online Payment	339.38	
08/24/18	Expenditures (Ck 3351-3380)	653,216.82	
	TOTAL FOR AUGUST	653,556.20	910,538.09
09/05/18	CenturyLink Online Payment	336.74	
09/28/18	Expenditures (Ck 3381-3418)	526,546.75	
	TOTAL FOR SEPTEMBER	526,883.49	1,437,421.58
10/04/18	CenturyLink Online Payment	337.04	
10/24/18	Expenditures (Ck 3419-3451)	563,559.93	
	TOTAL FOR OCTOBER	563,896.97	2,001,318.55
11/02/18	CenturyLink Online Payment	338.30	
11/21/18	Expenditures (Ck 3452-3485)	555,992.38	
	TOTAL FOR NOVEMBER	556,330.68	2,557,649.23
12/07/18	CenturyLink Online Payment	339.02	
12/19/18	Expenditures (Ck 3486-3512)	238,683.58	
	TOTAL FOR DECEMBER	239,022.60	2,796,671.83
01/03/19	CenturyLink Online Payment	339.02	
01/25/19	Expenditures (Ck 3513-3539)	139,304.87	
	TOTAL FOR JANUARY	139,643.89	2,936,315.72
02/04/19	CenturyLink Online Payment	339.02	
02/22/19	Expenditures (Ck 3540-3563)	116,761.84	
	TOTAL FOR FEBRUARY	117,100.86	3,053,416.58
03/04/19	CenturyLink Online Payment	339.02	
03/22/19	Expenditures (Ck 3564-3595)	112,928.36	
	TOTAL FOR MARCH	113,267.38	3,166,683.96
04/02/19	CenturyLink Online Payment	339.02	
04/26/19	Expenditures (Ck 3596 - 3629)	181,594.18	
	TOTAL FOR APRIL	181,933.20	3,348,617.16

TOTAL FOR MAY

TOTAL FOR JUNE

**Carroll-Grayson-Galax SWA
2019 Materials Expenses/Revenue**

MONTH	MATERIAL	EXPENSE	REVENUE
January	Wood	\$0.00	\$1,702.00
February		\$0.00	\$2,734.00
March		\$0.00	\$3,988.50
April		\$0.00	
May		\$0.00	
June		\$0.00	
July		\$0.00	
August		\$0.00	
September		\$0.00	
October		\$0.00	
November		\$0.00	
December		\$0.00	
TOTAL		\$0.00	\$8,424.50
January	Tires	\$5,292.95	\$2,459.00
February		\$2,494.75	\$1,781.00
March		\$3,600.60	\$6,228.00
April		\$0.00	
May		\$0.00	
June		\$0.00	
July		\$0.00	
August		\$0.00	
September		\$0.00	
October		\$0.00	
November		\$0.00	
December		\$0.00	
TOTAL		\$11,388.30	\$10,468.00
January	Metal	\$0.00	\$129.00
February		\$0.00	\$3,243.60
March		\$0.00	\$1,029.00
April		\$0.00	
May		\$0.00	
June		\$0.00	
July		\$0.00	
August		\$0.00	
September		\$0.00	
October		\$0.00	
November		\$0.00	
December		\$0.00	
TOTAL		\$0.00	\$4,401.60

Date 04/01/19
Time 13:42:01

Carroll-Grayson-Galax SWA,VA

Page 1

Material Analysis Report by Date

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
03/01/19				Total	130	58	0	0	131.40	131.40	6,892.00
				Average		0	0	0	1.01	1.01	53.02
03/02/19				Total	250	66	4	4	28.39	28.39	1,895.50
				Average		0	0	0	0.11	0.11	7.58
03/04/19				Total	140	60	0	0	148.67	148.67	7,469.56
				Average		0	0	0	1.06	1.06	53.35
03/05/19				Total	126	44	0	0	118.67	118.67	5,247.00
				Average		0	0	0	0.94	0.94	41.64
03/06/19				Total	100	42	0	0	97.56	97.56	5,060.52
				Average		0	0	0	0.98	0.98	50.61
03/07/19				Total	149	74	4	4	175.16	175.16	8,414.86
				Average		0	0	0	1.18	1.18	56.48
03/08/19				Total	77	36	0	0	94.29	94.29	4,497.00
				Average		0	0	0	1.22	1.22	58.40
03/09/19				Total	169	44	0	0	42.38	42.38	2,485.50
				Average		0	0	0	0.25	0.25	14.71
03/11/19				Total	192	69	0	0	180.64	180.64	9,254.52
				Average		0	0	0	0.94	0.94	48.20
03/12/19				Total	181	79	0	0	170.39	170.39	8,636.50
				Average		0	0	0	0.94	0.94	47.72
03/13/19				Total	162	84	0	0	212.16	212.16	9,437.06
				Average		1	0	0	1.31	1.31	58.25
03/14/19				Total	207	103	0	0	193.65	193.65	9,385.70
				Average		0	0	0	0.94	0.94	45.34
03/15/19				Total	135	62	0	0	135.41	135.41	5,952.38
				Average		0	0	0	1.00	1.00	44.09
03/16/19				Total	217	69	0	0	34.79	34.79	2,163.00
				Average		0	0	0	0.16	0.16	9.97

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Material Analysis Report by Date

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
03/18/19				Total	207	99	0	0	202.49	202.49	9,735.00
				Average		0	0	0	0.98	0.98	47.03
03/19/19				Total	162	93	0	0	185.94	185.94	8,521.16
				Average		1	0	0	1.15	1.15	52.60
03/20/19				Total	161	90	0	0	173.01	173.01	8,430.02
				Average		1	0	0	1.07	1.07	52.36
03/21/19				Total	160	92	0	0	189.77	189.77	8,879.50
				Average		1	0	0	1.19	1.19	55.50
03/22/19				Total	142	74	0	0	152.32	152.32	8,076.00
				Average		1	0	0	1.07	1.07	56.87
03/23/19				Total	252	79	2	2	42.12	42.12	2,764.20
				Average		0	0	0	0.17	0.17	10.97
03/25/19				Total	195	100	0	0	165.22	165.22	8,306.00
				Average		1	0	0	0.85	0.85	42.59
03/26/19				Total	102	53	0	0	178.26	178.26	8,290.16
				Average		1	0	0	1.75	1.75	81.28
03/27/19				Total	178	91	0	0	221.64	221.64	9,141.50
				Average		1	0	0	1.25	1.25	51.36
03/28/19				Total	167	94	0	0	161.97	161.97	6,793.58
				Average		1	0	0	0.97	0.97	40.68
03/29/19				Total	236	121	0	0	176.87	176.87	8,065.50
				Average		1	0	0	0.75	0.75	34.18
03/30/19				Total	289	114	0	0	49.70	49.70	3,536.00
				Average		0	0	0	0.17	0.17	12.24
				Report Total	4486	1990	10	10	3662.87	3662.87	177,329.72
				Report Average		0	0	0	0.82	0.82	39.53

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Material Analysis Report by Material

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
	1 AX TRL B			Total	110	3	0	0	3.36	3.36	990.00
				Average		0	0	0	0.03	0.03	9.00
	1 AX TRL L			Total	106	106	4	4	28.66	28.66	954.00
				Average		1	0	0	0.27	0.27	9.00
	2 AX TRL B			Total	3	2	0	0	4.50	4.50	33.00
				Average		1	0	0	1.50	1.50	11.00
	2 AX TRL L			Total	31	31	0	0	20.52	20.52	341.00
				Average		1	0	0	0.66	0.66	11.00
	3			Total	956	5	0	0	9.41	9.41	3,824.00
				Average		0	0	0	0.01	0.01	4.00
	4B			Total	1508	8	0	0	7.48	7.48	12,064.00
				Average		0	0	0	0.00	0.00	8.00
	4L			Total	235	235	2	2	64.40	64.40	1,880.00
				Average		1	0	0	0.27	0.27	8.00
	APP			Total	18	23	0	0	0.25	0.25	115.00
				Average		1	0	0	0.01	0.01	6.39
	BOILER ASH			Total	1	1	0	0	7.27	7.27	363.50
				Average		1	0	0	7.27	7.27	363.50
	BRUSH/WOOD			Total	128	128	0	0	78.85	78.85	3,964.50
				Average		1	0	0	0.62	0.62	30.97
	CARCASS			Total	14	13	0	0	2.35	2.35	0.00
				Average		1	0	0	0.17	0.17	0.00
	COMMERCIAL			Total	157	157	0	0	829.51	829.51	41,475.50
				Average		1	0	0	5.28	5.28	264.18
	CONST			Total	455	455	4	4	592.32	592.32	29,616.00
				Average		1	0	0	1.30	1.30	65.09
	GLASS			Total	17	17	0	0	120.57	120.57	2,893.68
				Average		1	0	0	7.09	7.09	170.22

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Material Analysis Report by Material

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
	GRD GLASS			Total	1	1	0	0	4.71	4.71	113.04
				Average		1	0	0	4.71	4.71	113.04
	INDUSTRIAL			Total	140	140	0	0	439.07	439.07	21,953.50
				Average		1	0	0	3.14	3.14	156.81
	INST			Total	1	1	0	0	10.41	10.41	520.50
				Average		1	0	0	10.41	10.41	520.50
	METAL			Total	5	5	0	0	0.78	0.78	39.00
				Average		1	0	0	0.16	0.16	7.80
	MUN			Total	400	400	0	0	991.93	991.93	49,596.50
				Average		1	0	0	2.48	2.48	123.99
	NF ASBESTO			Total	1	1	0	0	6.55	6.55	327.50
				Average		1	0	0	6.55	6.55	327.50
	NO CHARGE			Total	59	59	0	0	175.04	175.04	0.00
				Average		1	0	0	2.97	2.97	0.00
	SILT			Total	6	6	0	0	33.48	33.48	0.00
				Average		1	0	0	5.58	5.58	0.00
	SLUDGE			Total	31	31	0	0	169.34	169.34	0.00
				Average		1	0	0	5.46	5.46	0.00
	TIRE			Total	28	86	0	0	0.00	0.00	86.00
				Average		3	0	0	0.00	0.00	3.07
	TIRE W/RIM			Total	2	3	0	0	0.00	0.00	6.00
				Average		2	0	0	0.00	0.00	3.00
	TIRES/TON			Total	67	67	0	0	61.36	61.36	6,136.00
				Average		1	0	0	0.92	0.92	91.58
	YARD D GRD			Total	3	3	0	0	0.48	0.48	24.00
				Average		1	0	0	0.16	0.16	8.00
	YARD DEBRI			Total	3	3	0	0	0.27	0.27	13.50

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Material Analysis Report by Material

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		1	0	0	0.09	0.09	4.50
				Report Total	4486	1990	10	10	3662.87	3662.87	177,329.72
				Report Average		0	0	0	0.82	0.82	39.53

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Material Analysis Report by Account

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 200 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
0	CASH			Total	3774	1269	10	10	715.57	715.57	51,120.50
				Average		0	0	0	0.19	0.19	13.55
2	TOWN OF HILLSVILLE			Total	62	72	0	0	282.27	282.27	10,805.00
				Average		1	0	0	4.55	4.55	174.27
4	CARROLL-GRAYSON-GALAX SWA			Total	59	59	0	0	175.04	175.04	0.00
				Average		1	0	0	2.97	2.97	0.00
8	WASTE INDUSTRIES			Total	122	122	0	0	772.99	772.99	38,649.50
				Average		1	0	0	6.34	6.34	316.80
9	VIRGINIA PRODUCE CO INC			Total	4	4	0	0	5.30	5.30	265.00
				Average		1	0	0	1.33	1.33	66.25
15	JDM SERVICES INC			Total	2	2	0	0	8.03	8.03	401.50
				Average		1	0	0	4.02	4.02	200.75
19	HARMON'S WESTERN WEAR			Total	1	1	0	0	0.33	0.33	16.50
				Average		1	0	0	0.33	0.33	16.50
20	VDOT - CARROLL/MARTINSVILLE			Total	23	22	0	0	5.04	5.04	156.00
				Average		1	0	0	0.22	0.22	6.78
24	SUNNY SIDE STORE			Total	2	2	0	0	0.81	0.81	40.50
				Average		1	0	0	0.41	0.41	20.25
25	GARY HILL CONSTRUCTION			Total	1	1	0	0	1.42	1.42	71.00
				Average		1	0	0	1.42	1.42	71.00
26	JOEL L. HILL			Total	2	2	0	0	0.52	0.52	26.00
				Average		1	0	0	0.26	0.26	13.00
46	CONNER, INC.			Total	1	1	0	0	0.36	0.36	8.00
				Average		1	0	0	0.36	0.36	8.00
49	S. S. CARROLL CO. COOP.			Total	1	1	0	0	3.52	3.52	176.00
				Average		1	0	0	3.52	3.52	176.00
58	NEW RIVER POLYMERS			Total	42	42	0	0	121.48	121.48	6,074.00
				Average		1	0	0	2.89	2.89	144.62

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Material Analysis Report by Account

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 200 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
62	NATIONAL SALVAGE & SERVICE	Total			3	3	0	0	24.03	24.03	1,201.50
		Average				1	0	0	8.01	8.01	400.50
64	DON MARTIN	Total			7	7	0	0	2.04	2.04	102.00
		Average				1	0	0	0.29	0.29	14.57
104	BERT'S GARAGE, INC.	Total			2	2	0	0	2.44	2.44	244.00
		Average				1	0	0	1.22	1.22	122.00
119	QUALITY GUTTERING	Total			3	3	0	0	0.42	0.42	21.00
		Average				1	0	0	0.14	0.14	7.00
130	PAUL FRAZIER	Total			9	9	0	0	5.50	5.50	275.00
		Average				1	0	0	0.61	0.61	30.56
134	CARROLL COUNTY SCHOOLS	Total			4	4	0	0	3.51	3.51	239.00
		Average				1	0	0	0.88	0.88	59.75
135	CARROLL CO. BD. OF SUPV.	Total			3	3	0	0	1.06	1.06	53.00
		Average				1	0	0	0.35	0.35	17.67
139	A. L. NOBLETT, JR.	Total			9	9	0	0	1.94	1.94	97.00
		Average				1	0	0	0.22	0.22	10.78
140	SHERWOOD TRAILER PARK	Total			1	1	0	0	0.09	0.09	4.50
		Average				1	0	0	0.09	0.09	4.50
160	TODD WOLFORD	Total			4	4	0	0	0.72	0.72	36.00
		Average				1	0	0	0.18	0.18	9.00
170	RICHARDSON GENERAL CONTRACTORS	Total			4	4	0	0	2.67	2.67	133.50
		Average				1	0	0	0.67	0.67	33.38
176	CANA - CARROLL CO. BD. OF SUP.	Total			10	10	0	0	39.01	39.01	1,950.50
		Average				1	0	0	3.90	3.90	195.05
186	CARROLL COUNTY PSA	Total			3	3	0	0	0.86	0.86	43.00
		Average				1	0	0	0.29	0.29	14.33
187	G&G CONSTRUCTION	Total			3	3	0	0	1.55	1.55	77.50

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Material Analysis Report by Account

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 0 - 200 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
				Average		1	0	0	0.52	0.52	25.83
190 THE HOMEPLACE OF VA, INC.				Total	7	7	0	0	3.58	3.58	313.50
				Average		1	0	0	0.51	0.51	44.79
				Report Total	4168	1672	10	10	2182.10	2182.10	112,600.50
				Report Average		0	0	0	0.52	0.52	27.02

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Material Analysis Report by Account

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 201 - 499 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
202	CITY OF GALAX			Total	75	75	0	0	343.20	343.20	10,337.00
				Average		1	0	0	4.58	4.58	137.83
203	AMERICAN MIRROR CO.			Total	2	2	0	0	9.80	9.80	367.54
				Average		1	0	0	4.90	4.90	183.77
204	CONSOLIDATED GLASS & MIRROR			Total	47	47	0	0	170.84	170.84	5,438.18
				Average		1	0	0	3.63	3.63	115.71
211	MAURICE VAUGHAN FURNITURE			Total	7	7	0	0	1.80	1.80	90.00
				Average		1	0	0	0.26	0.26	12.86
217	VAUGHAN BASSETT FURNITURE			Total	23	23	0	0	78.31	78.31	3,915.50
				Average		1	0	0	3.40	3.40	170.24
218	WEBB FURNITURE ENTERPRISES			Total	2	2	0	0	7.16	7.16	358.00
				Average		1	0	0	3.58	3.58	179.00
238	HILLS COAL & TRUCKING			Total	1	1	0	0	0.43	0.43	21.50
				Average		1	0	0	0.43	0.43	21.50
287	COMMUNITY HOUSING PARTNERS COR			Total	1	1	0	0	0.21	0.21	10.50
				Average		1	0	0	0.21	0.21	10.50
299	WASTE MANAGEMENT - AP			Total	10	10	0	0	83.95	83.95	4,197.50
				Average		1	0	0	8.40	8.40	419.75
309	V&M REGIONAL RECYCLING			Total	63	63	0	0	192.03	192.03	9,601.50
				Average		1	0	0	3.05	3.05	152.40
				Report Total	231	231	0	0	887.73	887.73	34,337.22
				Report Average		1	0	0	3.84	3.84	148.65

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Material Analysis Report by Account

Inbound and outbound materials for the period 03/01/2019 - 03/31/2019

Summary Report for Sites: 1, 2, 3, 22, 99

Accounts 500 - 999999 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
502	COUNTY OF GRAYSON			Total	86	86	0	0	593.01	593.01	30,392.00
				Average		1	0	0	6.90	6.90	353.40
514	VDOT/WYTHEVILLE/REF. GR. CO.			Total	1	1	0	0	0.03	0.03	0.00
				Average		1	0	0	0.03	0.03	0.00
				Report Total	87	87	0	0	593.04	593.04	30,392.00
				Report Average		1	0	0	6.82	6.82	349.33

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Account Aging Report

Accounts 1 - 999999 Types - Z Balances 0.01 - 999999999.
Aged past 0 days As of 03/31/2019

Account	Customer	Over limit	---Last payment----	0 - 30	31 - 60	61 - 90	Over 90	Total due
2	TOWN OF HILLSVILLE		03/18/19 10862.00	10218.50	586.50	0.00	0.00	10805.00
8	WASTE INDUSTRIES		03/21/19 38437.00	36680.00	1969.50	0.00	0.00	38649.50
9	VIRGINIA PRODUCE CO INC		03/21/19 406.00	265.00	0.00	0.00	0.00	265.00
15	JDM SERVICES INC		03/07/19 255.50	401.50	374.00	0.00	0.00	775.50
19	HARMON'S WESTERN WEAR		03/21/19 31.00	16.50	0.00	0.00	0.00	16.50
20	VDOT - CARROLL/MARTINSVILLE		03/18/19 20.50	156.00	119.00	0.00	0.00	275.00
24	SUNNY SIDE STORE		03/21/19 43.50	40.50	0.00	0.00	0.00	40.50
25	GARY HILL CONSTRUCTION		02/21/19 50.00	71.00	0.00	0.00	0.00	71.00
26	JOEL L. HILL		03/18/19 22.00	26.00	0.00	0.00	0.00	26.00
46	CONNER, INC.		03/18/19 37.00	8.00	0.00	0.00	0.00	8.00
49	S. S. CARROLL CO. COOP.		02/21/19 20.50	176.00	0.00	0.00	0.00	176.00
58	NEW RIVER POLYMERS		03/21/19 10745.00	6074.00	0.00	0.00	0.00	6074.00
62	NATIONAL SALVAGE & SERVICE		03/18/19 1470.76	1201.50	0.00	0.00	0.00	1201.50
64	DON MARTIN		03/18/19 20.50	102.00	0.00	0.00	0.00	102.00
80	H. E. HUNDLEY		10/11/18 9.50	0.00	7.00	0.00	0.00	7.00
104	BERT'S GARAGE, INC.		11/08/18 376.00	0.00	244.00	0.00	0.00	244.00
119	QUALITY GUTTERING		03/29/19 78.00	21.00	0.00	0.00	0.00	21.00
130	PAUL FRAZIER		03/18/19 34.50	275.00	0.00	0.00	0.00	275.00
134	CARROLL COUNTY SCHOOLS		01/17/19 56.50	239.00	0.00	0.00	0.00	239.00
135	CARROLL CO. BD. OF SUPV.		03/21/19 13.00	53.00	0.00	0.00	0.00	53.00
139	A. L. NOBLETT, JR.		03/07/19 89.00	97.00	0.00	0.00	0.00	97.00
140	SHERWOOD TRAILER PARK		03/18/19 4.50	4.50	0.00	0.00	0.00	4.50
160	TODD WOLFORD		03/29/19 120.19	36.00	0.00	0.00	0.00	36.00
170	RICHARDSON GENERAL CONTRACT		03/21/19 2.00	133.50	0.00	0.00	0.00	133.50
176	CANA - CARROLL CO. BD. OF S		03/21/19 1204.50	1521.50	429.00	0.00	0.00	1950.50
186	CARROLL COUNTY PSA		02/14/19 1.00	43.00	0.00	0.00	0.00	43.00
187	G&G CONSTRUCTION		03/21/19 126.50	75.00	2.50	0.00	0.00	77.50
190	THE HOMEPLACE OF VA, INC.		10/16/13 41.00	25.50	288.00	0.00	0.00	313.50
202	CITY OF GALAX		03/21/19 7354.00	9960.00	377.00	0.00	0.00	10337.00
203	AMERICAN MIRROR CO.		03/29/19 113.04	254.50	0.00	0.00	0.00	254.50
204	CONSOLIDATED GLASS & MIRROR		03/29/19 62.00	5139.18	0.00	0.00	0.00	5139.18
211	MAURICE VAUGHAN FURNITURE		03/29/19 2907.62	78.00	12.00	0.00	0.00	90.00
217	VAUGHAN BASSETT FURNITURE		03/29/19 736.50	1454.50	0.00	0.00	0.00	1454.50
218	WEBB FURNITURE ENTERPRISES		03/18/19 182.50	175.50	0.00	0.00	0.00	175.50
238	HILLS COAL & TRUCKING		03/18/19 138.50	21.50	0.00	0.00	0.00	21.50
287	COMMUNITY HOUSING PARTNERS		03/07/19 13.50	10.50	0.00	0.00	0.00	10.50
299	WASTE MANAGEMENT - AP		03/18/19 4168.50	3690.50	507.00	0.00	0.00	4197.50
309	V&M REGIONAL RECYCLING		03/29/19 6503.50	9601.50	0.00	0.00	0.00	9601.50
502	COUNTY OF GRAYSON		03/29/19 23773.00	29455.00	937.00	0.00	0.00	30392.00
				117801.18	5852.50	0.00	0.00	123653.68

SUMMARY OF ENGINEERING ACTIVITIES

CGGSWA

LANDFILL PERMITS 508 AND 605

DAA Project No.	Description	APRIL 2019 REPORT	
		Updates	
B10101B-15F	Engineering Assistance - Permit 508	None this month.	
COMPLETED	Closure Construction - Permit 508	Thirty year post-closure care period started on June 17, 2014.	
B10101B-17F	Engineering Assistance - Permit 605	SWMP - VDEQ just now reviewing 2016 five-year update to the plan. This was submitted as a letter as allowed by the regulations. VDEQ has begun requesting a copy of the latest version of the plan when they are reviewing the five-year updates. On 1/10/19, VDEQ requested a copy of the CGGSWA latest version. This version is dated 2004. This may trigger requirement by VDEQ for update. This could be a \$8,000 - \$10,000 endeavor. Our response to VDEQ would be that the Authority does not have funding in this fiscal year to update the plan and can consider for FY 2020. However, your next update to VDEQ is not due until 1/11/2021 so we could also argue that it will be submitted at that time. The major amendment will impact any modification to the SWMP so any SWMP modification should wait until approved. No word from DEQ.	
B10101B-18F	Landfill Gas Monitoring	No activity.	
B10101B-19	Groundwater Monitoring - Permit 508	The first semiannual groundwater event for 2019 was completed on March 13-14, 2019. Semiannual leachate sampling was also completed during the March 2019 event. We should receive all of the analytical data from the laboratory in the next few weeks.	
B10101B-20	Groundwater Monitoring - Permit 605	The first semiannual groundwater monitoring event for 2019 was completed on March 13-14, 2019. Semiannual leachate sampling was also completed during the March 2019 event. We should receive all of the analytical data from the laboratory in the next few weeks.	
B10101B-21	Storm water Compliance	Samples for the first semiannual 2019 monitoring period were collected from Outfalls 001, 002, 003, 004, and 005A on February 22, 2019. All sample results were below benchmark concentrations. Discharge Monitoring Reports will submitted to DEQ prior to reporting deadline.	
B10101B-25F	Title V Permit Submittals	Completed the 2018 Annual Update and Emissions Statement and sent to the DEQ. Completed the 2018 Green House Gas Report and submitted to the EPA.	
B10101B-29A	Tier 2 Testing	No activity.	
B10101B-35	Soil Evaluation	No activity.	
B10101B-P	Aerial survey and capacity analysis.	No activity - funding is available from remaining Cell 2 construction budget. Proposal has been provided.	
B10101B-33CE	Permit 605 - Cell 2 Construction Phase Services	Sowers completed seeding and repair of damaged areas. Final payment recommended by Draper Aden Associates. The County's E&S Program Inpsectors, after recent inspections, have declared the Cell 2 construction area in good shape and indicated that the project is complete. The construction project is now in its one year warranty period; until November 3, 2019.	
B10101B-34A	Title V Permit Renewal Application	DEQ has issued the new air permit, effective January 14, 2019. Permits renew every 5 years.	
B10101B-40	Permit modification for reconfiguration	Work continuing on the permit amendment.	
B10101B-40A	Financial Evaluation	Completed	
B10101B-41	Adjacent property borrow area	Work in progress on design.	



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April 20, 2019

Mr. Allen Lawson, Landfill Superintendent
Carroll-Grayson-Galax Solid Waste Authority
162 Landfill Road
Hillsville, VA 24343

**RE: CGGSWA – Landfill and Adjacent Property
2019 Aerial Mapping and Capacity Analysis
Proposal
Draper Aden Associates Project No.B10101B-42P**

Dear Mr. Lawson:

Draper Aden Associates is pleased to present to the Carroll-Grayson-Galax Solid Waste Authority (Authority) this proposal for services associated with the aerial mapping of the landfill which is approximately 45 acres. Work will be conducted in accordance with this proposal and the terms of our contract with CGGSWA.

I. PROJECT DESCRIPTION

Annually (or as requested by the Authority) the Permit 605 landfill is evaluated to: 1) determine the landfill utilization factor (aka landfill density) which is a measure of the effectiveness of the landfill operations, and 2) to determine remaining capacity which is critical for timing the construction of the next cell. Density is a function of tonnage, types of materials received, daily cover usage and compaction by the operators.

The following scope of work outlines the surveying requirements and provides costs for the surveying and the capacity analysis.

II. SCOPE OF WORK

The Scope includes the following work:

TASK 1 – ESTABLISH GROUND CONTROL:

- 1) Draper Aden Associates (DAA) will recover and establish necessary horizontal and vertical site control using GPS and conventional ground run traverse methodologies.
- 2) Ground control will be oriented to horizontal datum NAD 83 (CORS 2011) and vertical datum NAVD and then tied to current site datum if necessary.

TASK 2 – AERIAL TOPOGRAPHIC SURVEY:

Draper Aden Associates (DAA) will conduct an aerial topographic survey with an sUAS / drone aircraft of approximately 45 acres within the agreed upon survey limits. An FAA licensed Remote Pilot will conduct the flight operations in accordance with FAA rules and regulations. Aerial flights are dependent on safe weather conditions and will be scheduled accordingly.

The topographic survey will include locating of ground control points established in TASK 1 and ties to additional check points. The images collected from the sUAS flights will be photogrammetrically processed to make a 3D Point Cloud and an orthomosaic image of the project area within the specified survey limits. A CAD technician will use the photogrammetric output to generate the earth surface and contours at two feet.

A 24" x 36" ortho color photo with property boundary, cell boundaries and monitoring points will be provided.

TASK 3 – DATA EVALUATION

The following work will be completed once the survey is received:

- Volumetric calculations will be completed. Capacity used and capacity remaining will be determined by comparison of the 2017 mapping against the 2019 survey, the as-built survey of Cell 2 against the 2019 survey, and against intermediate operational grades.
- The in-place landfill utilization factor will be calculated and then extrapolated to the remaining calculated air space to estimate available life expectancy. The Authority will need to provide tonnage records for the material landfilled.
- Preparation of a letter report which will summarize the services provided and the findings based on calculations.

III. FEES

Services as described herein can be provided as indicated below:

ACTIVITY	FEE	COMMENTS
SURVEY B10101B-42A		
Field work and final mapping	\$6,000	
Flight	\$3,500	
Photo	\$800	
TOTAL	\$10,300	Lump sum
LANDFILL CAPACITY ANALYSIS B10101B-42B	\$5,000	Time and materials/NTE
TOTAL	\$15,300	

IV. DELIVERABLES

Draper Aden Associates will complete the aerial survey and calculations and prepare a brief letter report. The Authority will receive the following information:

- A plot of the survey(s)
- CD with survey information
- Drawing indicating cut and fill between surveys
- Drawing indicating cut and fill of new mapping against intermediate operational grade
- Life expectancy analysis
- Landfill utilization factor calculation
- Letter report summarizing findings
- Photo of landfill operations (Color – digital ortho-photo)

These deliverables and other instruments of service are prepared for, and made available for, the sole use of the Authority. The contents of this report may not be used or relied upon by any other person without the express written consent and authorization of Draper Aden Associates.

V. SCHEDULE

The field work will be completed within 2 weeks of approval of this proposal, the flight completed within 2 weeks of target placement, and mapping completed within 3.5 weeks of receipt of control surveys and completion of photography. The landfill capacity analysis will be completed within 4 weeks of receipt of all information. The timing of the flight is a function of the weather. All work will be completed before the end of FY 2019.

VI. ASSUMPTIONS / LIMITATIONS

The Scope of Services and fee estimate presented are based upon the assumptions outlined above.

Mr. Allen Lawson

April 20, 2019

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On behalf of Draper Aden Associates, thank you for giving us the opportunity to provide our proposal for professional engineering services. If this proposal meets with your approval, please sign the Authorization to Proceed below and return it to us. Please contact us should you wish to discuss our proposal in further detail.

Sincerely,

DRAPER ADEN ASSOCIATES



Lynn P. Klappich, CSI, CCCA
Program Manager

cc: Mr. Hoppy Knighting, CLS, Team Leader
Mr. Don Marickovich, P.E., Project Engineer

CGGSWA
2019 Aerial Survey and Landfill Capacity

AUTHORIZATION TO PROCEED

I/We agree and accept Draper Aden Associates' proposal to provide the engineering services for the aerial survey and capacity analysis.

We understand the Scope of Services as provided herein and agree to the fees estimated for these services. We further acknowledge that Draper Aden Associates will provide a proposal for any change in the Scope of Services described herein and that a signed agreement to provide those additional services will be executed prior to any work being performed.

Printed Name

Title

Signature

Date

Solid Waste Authority Manager's Report
April 26, 2019

Agenda:

- Engineering Proposal (Interview Results)
- HHW Event
- Equipment Update
- Questions and answers