

COMMONWEALTH of VIRGINIA

Molly Joseph Ward Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY Blue Ridge Regional Office

3019 Peters Creek Road, Roanoke, VA 24019 (540) 562-6700; Fax (540) 562-6725 www.deq.virginia.gov

December 5, 2017

Mr. Clarke Gibson Region 2000 Service Authority 361 Livestock Road Rustburg, Virginia 24588

NO DEFICIENCY LETTER

Re: Region 2000 Livestock Road Regional Landfill - Campbell Co. VA – SWP610 Unannounced Compliance Inspection

Dear Mr. Gibson:

On November 8, 2017, staff from the Virginia Department of Environmental Quality's Blue Ridge Regional Office conducted a compliance inspection of the solid waste management facility operating under SWP610. During this inspection, the facility was evaluated for compliance with the Virginia Waste Management Act, Va. Code § 10.1-1400 et seq. ("Act"), the Virginia Solid Waste Management Regulations, 9 VAC 20-81-10 et seq. ("Regulations"), and SWP610.

During the inspection, no apparent violations of the Act, Regulations, or SWP610 were observed. A copy of the inspection checklist is enclosed.

If you have any questions, please contact me at (540) 524 - 8221 or <u>Douglas.Foran@deq.</u> virginia.gov.

Sincerely,

Doug Foran

BRRO Solid Waste Inspector

David K. Paylor

Director

Robert J. Weld

Regional Director

Copy: Robert Arthur, Region 2000

ECM - SWP610



Compliance Inspection Report

Inspection Summary

Inspector: Douglas Foran

Exit Interview: Yes

96% humidity - BP 30.17

Inspection Date: 11/8/2017

Approximate Arrival Time: 9:15 am

Inspection Method: Unannounced

Weather Conditions: Weather Rain - Wind 5 mph from NE - 41 F -

Facility: Region 2000 Regional Landfill - Livestock Rd Fac

Permit: SWP610

Region: Blue Ridge

Inspection Type: Compliance Evaluation Inspection

Facility Staff: Greeted by Clarke Gibson, Director of Solid Waste and

Licensed Landfill Operator, and Robert Arthur, Environmental Compliance Coordinator and Licensed Landfill Operator. Inspection

conducted with Mr. Arthur.

Other DEQ Staff: Gregory Adamson (Solid Waste Inspector), Priscilla

Fisher (Compliance Coordinator)

Comments: DEQ inspector conducted inspections of both SWP610 Livestock Road SLF (active) and SWP558 Concord Turnpike SLF (post-closure

care). Departed sites after completing both inspections at 4:10 pm.

The inspection report covers both Phase III, which has reached final elevation and is near capacity, and Phase IV, which began receiving waste on

August 22, 2017

Sanitary Landfill (Active)

Reference	Description	SL	Result
Compliance Area: Op	perator Information		
10.1-1408.1	Disclosure Statement		V
10.1-1408.2	Operator Certification	II	V
Compliance Area: Re	cordkeeping, Reporting & Permit		
20-81-80	Waste Assessment Program	II	
20-81-100.B	Compliance with the facility's permit	H	✓
20-81-100.E	Unauthorized waste program and inspection		√
20-81-140.A.16	Facility self inspections		✓
20-81-140.A.17	Record maintained of waste received and processed	1	√
20-81-485	Operations Manual	l II	1
20-81-530	Permittee recordkeeping and reporting	II.	√
Compliance Area: De	sign, Construction & Operation		
20-81-130	Facility design / construction		1
20-81-140.A.1,4	Safety and fire control	II.	1
20-81-140.A.6	Pollutant discharge	111	V
20-81-140.A.7 Stormwater control system maintenance			1
20-81-140.A.8,14-15 Facility operation, maintenance, and training		TI II	V
20-81-140.A.9-13	Hazard and nuisance control	I	1
20-81-140.B Compaction, cover & working face			1
20-81-610-660	Special Waste	[1]	1
Compliance Area: Cl	osure & Post-Closure Care		تعرالنا
20-81-160	Closure requirements	II II	
20-81-170	Post-closure care requirements	П	
Compliance Area: De	composition Gas Control		
20-81-200.A,B,E	Decomposition gas concentrations, monitoring & recordkeeping	- II	1
20-81-200.C	Decomposition gas-remediation	III III	
20-81-200.D	Decomposition gas-odor management		1

Compliance Area: L	eachate Control		
20-81-210	Leachate control	ll_	1
Compliance Area: Groundwater Monitoring			
20-81-250	Groundwater monitoring program	II.	
20-81-260	Corrective action program	11	
Compliance Area: Landfill Mining			
20-81-385 & 395	Landfill Mining	II_	

SL = Severity Level

✓ = In Compliance

X = Alleged Violation

N/A = Not Applicable

Blank = Not Inspected

General Comments

Reference	Comments
	Compliance with the facility's permit - Item 1 (Update to Item 1 on the August 11, 2017 inspection report) — The facility continues to maintain the Posi-Shell application to the northern and western side slopes of Phase III waste cell for odor control. Some minor rill erosion damage related to the recent installation of additional gas extraction wells was observed. Mr. Arthur explained the damage will be repaired and Posi-Shell will be reapplied to these areas. Item 2 - Permit Module II, Section II.C states that the landfill is limited to a daily disposal limit of 2,580 tons/day. The facility
20-81-100.B	provided the following total monthly tonnage and daily average tonnages for August through October 2017 MonthDaily average tonnageTotal monthly tonnage Aug
	Oct
20-81-100.E	Unauthorized waste program and inspection - 100.E.1 - The facility posted its operating hours at the front gate. A sign identifying unauthorized wastes is posted prior to the scale house. 100.E.5 - Sufficient random load inspections were documented to meet the 1% requirement for August through October 2017. Month
20-81-140.A.16	Facility self inspections - The facility performed monthly self-inspections for August, September, and October 2017. Inspection reports were reviewed and were complete.
20-81-485	Operations Manual - The facility was reminded during the inspection that it must review, update (if necessary), and certify its Operations Manual on or before December 15, 2017. The previous certification statement was dated December 15, 2016 and signed by Clarke Gibson, P.E.
20-81-530	Permittee recordkeeping and reporting - 530.B All required records were maintained at the facility and available to the DEQ staff at the time of the inspection. 530.C.3 - As requested by DEQ on September 29, 2016, the facility provided 24 hour and 5 day notifications for significant breakdowns of the odor management system. On September 28, 2017, the facility provided a 24 hour verbal notification, and written notification by email, that the Odor Boss Canon (portable misting system) failed. The email detailed plans for repairs. The unit was returned to service on October 4, 2017. On August 29, 2017, the facility provided a 24 hour written notification by email that the Odor Boss Canon (portable misting system) was down. The unit was returned to service later that day. No additional notifications were made.
20-81-130	Facility design / construction - 130.B — Unauthorized after-hours access to the facility is prevented by a gate (equipped with an electric motor and keypad), fencing and natural barriers.
20-81-140.A.1,4	Safety and fire control - 140.A.1 – Safety meeting records for August 17, through November 2, 2017 were reviewed. Records included the materials presented, and sign-in sheets, which listed the meeting's topic, date, instructor, location and attendees. 140.A.4 – No indication of open burning of waste was found.
20-81 - 140.A.6	Pollutant discharge - An unnamed tributary of Tussocky Creek is located between the SWP610 Livestock Rd. SLF, owned by Region 2000, and SWP285 Campbell Co. Closed SLF, owned by Campbell County, VA. During the inspection, no indication of solid waste from SWP610 impacting the tributary was found.
20-81 - 140.A.7	Stormwater control system maintenance - Stormwater controls were observed to be in place and in good repair. The facility completed excavating sediment buildup in the sediment basin prior to the underdrain. The main sediment basin for the facility, which receives flow from the underdrain and the stormwater system, appeared to have little sediment buildup. Ditch lines around the waste cell were generally clear of sediment and check dams to slow stormwater flow were installed. No indications of stormwater flow bypassing the stormwater system were found.

20-81-140.A.8,14-15	Facility operation, maintenance, and training - 140.A.15 – Sufficient equipment and trained operators were present at the facility. A Cat D-6 dozer and an Aljohn compactor were in operation at the active working face. A second Aljohn compactor was available for use. Operators were stockpiling soil from the on-site borrow area at the working face using an off-road dump truck and a Cat 973 track loader. The facility's excavator and a Cat 963 track loader were down for repairs and service. The facility's service truck was available for use. The Posi-Shell sprayer was at the working face. The facility's water truck was available for use.
20-81-140,A.9-13	Hazard and nuisance control - 140.A.9 - Weekly litter cleanup was documented for August, September, and October 2017. The facility has purchased and is assembling new portable litter fencing which can be moved from place to place at the facility. 140.A.10 - Odors and vectors – No vector issues were noted. In addition to the odor management systems and practices in place, the facility completed the final lift on Phase III. The western section of the Phase III cell, nearest Poplar Ridge sub-division is at final elevation. The facility moved the active working face to Phase IV. (See additional comments under 20-81-140.B.1.a - Compaction, cover & working face.) The following ongoing odor control mechanisms and procedures were observed: 1 - Active gas extraction system (initiated August 2, 2016) - The high capacity blower/flare was in operation at the time of the inspection. Six additional gas extraction wells were added to Phase III after the waste cell reached capacity. Mr. Arthur informed the inspector that the new wells are in operation and being adjusted to balance the entire gas extraction system. 2 - Posi-Shell/Interim odor control/ Daily Cover (Initial application June 16, 2016) - Facility employees continue maintenance and reapplication of the material as needed. The Posi-Shell cover over the intermediate cover did need reapplication in one area following the installation of additional gas extraction wells on the Phase III waste cell. 3 - Odor Boss Canon (Portable misting unit - Initiated March 25, 2016) - The portable unit was in operation and located near the active working face in Phase IV. Facility staff notified DEQ on November 1, 2017, that they intend to winterize the unit (drain and take out of service) to prevent damage during the winter months. The unit will be brought back into service when freezing temperatures end in the spring of 2018. 4 - Byers Vapor System (Stationary perimeter system - Initiated March 16, 2016) - The system was operational along the western (Poplar Ridge) and southern
20-81-140.B	Compaction, cover & working face - The inspector discussed maintaining a three day soil stock pile near to, or easily accessible to, the active working face to address after-hours fire control with Mr. Arthur. The facility already maintains a soil stockpile near the working face for daily cover and was in process of hauling additional soil from the on-site borrow area to the stockpile at the time of the inspection. The facility appears to maintain a stockpile that addresses this concern. 140.B.1.a — The working face was located along the northern edge of Phase IV. Phase III is complete, with very limited space left facing Phase IV. This remaining area on Phase III is on the eastern section, which is the greatest distance from the Poplar Ridge sub-division. Waste, in the Phase IV active cell, was spread into a thin layer and lightly compacted into place with track equipment. Compaction was minimal due to this being the first lift of waste placed in the cell (fluff layer) to protect the gravel drainage layer, leachate collection system, and liner. 140.B.1.b — The Phase IV fluff layer lift appeared to be approximately 6-8 feet thick. 140.B.1.c — Soil and Posi-Shell are used for daily cover. A soil cover was applied over the area where waste was placed in Phase IV, with the exception of the active working face and toe of the waste which sets on the gravel drainage layer. Soil only daily cover continues to be applied over the weekend. Some exposed waste was observed along the toe of the fluff layer where it meets the gravel drainage layer. Further discussion with facility staff indicates approximately 18 inches of waste is not covered with soil in areas where the soil would spill over onto the gravel drainage layer. This is to prevent clay soil particles or the bentonite component of Posi-Shell from clogging the gravel drainage layer which could prevent leachate from reaching the leachate collection system. 140.B.1.d — Intermediate cover was in process of being completed on Phase III. This included removing and
20-81-610-660	Special Waste - 620 - Asbestos containing material (ACM) - Region 2000 Special Waste Disposal Request forms for receiving ACMs and other special waste were reviewed for August, September, and October 2017. 640 - Tire management - No tires were hauled since the load documented on April 7, 2017. The facility contacted DEQ in regard to utilizing tires to hold down a rain covering for the Phase IV waste cell prior to construction of the waste cell. With Phase IV in

	operation, tires are beginning to be pulled from the rain cover which over time will create a significant number of tires onsite for disposal. The facility should keep the number of tires onsite below its permitted limit once the tires are no longer in use on the rain cover. 650 - White goods management No metals were hauled since the June 20, 2017 load.
20-81-200.A,B,E	Decomposition gas concentrations, monitoring & recordkeeping - 200.A – Fourth quarter 2017 landfill gas (LFG) monitoring was conducted on October 17, 2017. No exceedances of the lower explosive limit (LEL) or levels reaching the 80% action level for methane were reported at gas boundary probes. No methane gas levels were reported requiring action at the facility's scale house or maintenance building. 200.B - The gas monitoring network was observed on August 11, 2017. 200.E – The fourth quarter monitoring report was reviewed at the facility's office. All required information was included.
20-81-200.D	Decomposition gas-odor management - 200.D.1 – The facility follows the updated Odor Management and Control Plan (OMCP), dated June 17, 2016. The updated OCMP replaces the previous November 10, 2011 plan. Odor control strategies are given in Section 3.0 through 3.9 – Strategies for Controlling Odors. 200.D.2 – Section 5.0 of the updated OMCP states that documentation of odor complaints will be maintained and will be available for authorized officials. During the inspection, DEQ staff reviewed the facility's odor complaint log for August, September, and October 2017. Month Number of complaints Aug
20-81-210	Leachate control - The facility provided the Leachate Flow Meter Readings chart for December 2016 to October 31, 2017. No leachate outbreaks were observed at the active waste cell or in the area around the leachate tank and pumping station. Leachate is hard piped through a pumping station from the leachate holding tank to the Campbell County Utility Service Authority sewer system to the City of Lynchburg Regional WWTP.

Disclosure Statement Details

- 14	Key Personnel	Title
N	Clarke W. Gibson	Director of Solid Waste
ĺ	Dianne D. Dodd	Region 2000
	Elliott L. Inge	Environmental Technician
	Felicia D. West	Region 2000
	Gary Christie	Region 2000
	Kenneth Jarman	Working Field Supervisor
	Larry P. Hall	Operations Manager
	Robert Arthur	Environmental Compliance and Safety Manager

Disclosure Statement Last Updated: 7/17/2017

Waste Management Facility Operators

Licensed Operator	License #	Expiration Date
Clarke Gibson	4605003027	11/30/2017
Diane Dodd	4605002034	8/31/2018
Elliott Inge	4605002580	7/31/2019
Kenneth Jarman	4605002635	11/30/2017
Larry P. Hall	46050020133	12/31/2018
Robert Arthur	4605002613	3/31/2018

PLEASE advise the Regional Office within 10 calendar days if any information noted in this report is incorrect, if you have taken appropriate action to meet compliance, or if there is other information that the department should consider regarding any alleged violations.

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	Administrative Process Act (VA Code 2.2-4000	agency proceeding or determination which may let seq). If informal discussions do not lead to a EQ take all necessary steps to issue a final deci	satisfactory conclusion on the contents of
	Permit: SWP610	Page 5 of 5	Inspection Date:11/08/2017