DEPARTMENT OF ENVIRONMENT and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

August 1, 2014

Ron Olson, Street and Sanitation Superintendent
City of Mitchell
612 North Main Street
Mitchell, SD 57301

Re: Inspection of the Mitchell Municipal Solid Waste Landfill

Dear Mr. Olson:

On June 26, 2013, I conducted an inspection of the Mitchell Municipal Solid Waste Landfill (permit number 12-02) with the assistance of Jay Tollefson and yourself. The purpose of this inspection was to review operation and maintenance of the landfill, and determine if the operation of the landfill is in compliance with South Dakota solid waste disposal rules and the city of Mitchell's solid waste permit.

The inspection of the landfill showed that the operation and maintenance of the landfill is acceptable and in compliance with South Dakota solid waste laws and rules and the permit conditions. If you have any questions, or if you would like to discuss the contents of the inspection report, please do not hesitate to contact me at (605) 773-3153.

Sincerely,

Steven Kropp, P.E.
Waste Management Program

Enclosure

South Dakota Department of Environment and Natural Resources
Waste Management Program
Municipal Solid Waste Landfill Inspection Report

Facility Owner: City of Mitchell Date of Inspection: July 10, 2014

Address: 612 North Main Street, Mitchell, SD 57301 County: Davison

Contact's Name, Title & Telephone #: Jay Tollefson, Landfill Manager, (605) 995-8448

Ron Olson, Street & Sanitation Supt., (605) 995-8465

Date of Last Inspection: June 26, 2013 Permit #: 12-02 Type of Facility: IIA

Tonnage received in 2013: 31,940 tons of MSW and 66 tons of C&D debris

Tonnage received Jan. – June 2014: 13,885 tons of MSW and 40 tons of C&D debris

Tipping Fee: $39/ton MSW & Rubble; $20/ton for trees

Narrative

On July 10, 2014, I met with Jay Tollefson (Tollefson) and Ron Olson (Olson) at the Mitchell landfill. Mr. Tollefson and Mr. Olson accompanied me during the inspection. We began the inspection by reviewing solid waste operations and reviewing the records and documentation required by the operator's solid waste permit. We then traveled around the landfill where we observed the various waste storage and disposal areas and discussed solid waste handling and disposal practices for these areas. We then went to the scale house where we further discussed solid waste operations and the cell #3 construction project. Pictures were taken during the on-site inspection and are attached to this report.

Design Standards (ARSD 74:27:12)

1. South Dakota Highway 37 passes one and one-half miles west of the landfill. The primary access road (257th Street) to the landfill is a blacktop paved road that leads from the highway to the landfill. The operator maintains this road. The on-site roads at the landfill are well maintained. Mr. Tollefson stated that there are no problems with access to the lined municipal solid waste (MSW) disposal area during inclement weather conditions.

2. There are signs posted at the entrance to the landfill and at the scale house with the following information: name of the landfill, phone numbers for the landfill and street & sanitation department, days and hours of operation, emergency contact information, landfill tipping fees and the requirement that all incoming loads must be secured. There are signs posted around the landfill showing where the various waste disposal and storage areas are located.

3. Access to the landfill is controlled by the use of fencing, lockable gates at the main entrance to the landfill, and natural topography. The operator uses portable litter

fences at the face of the MSW unloading area, fixed fencing around the MSW disposal area and around the perimeter of the landfill to help control litter.

4. The landfill has been designed to divert normal surface water flow and storm water runoff away from the active fill area. Surface water is directed away from the MSW disposal area by perimeter ditches and storm sewer piping along with natural topography. Surface water is stored in a storm water pond located in the southwestern corner of the site. The storm water pond has a culvert with a vertical slide gate so that the operator can manually drain the storm water pond into the constructed wetlands located south of the storm water pond. Tollefson stated that the landfill did not discharge any discharges from storm water pond in 2013 nor so far this year. The landfill employees make periodic inspections of the water level in the storm water pond. The operator does have a storm water discharge permit for the storm water pond through the Surface Water Quality Program (SD00B408).

Facility Operation (ARSD 74:27:13)

1. The landfill is only open when there are adequate supervisory and operational personnel at the landfill. The landfill employs four full-time employees. The landfill has an adequate scale that is located south of the scale house. The operator has the scale certified annually by the South Dakota Department of Public Safety – Weights and Measures Program. The Weights and Measures Program certified the scale in August 2013.

2. Tollefson said that the landfill staff typically tries to maintain a working face that's 40 feet wide by 40 feet long. The operator spreads the waste in lifts that are no more than two feet in thickness. The compactor operator makes an average of five to seven passes over the waste to ensure the waste is sufficiently compacted. Tollefson said that the new landfill compactor the landfill received in October has a Global Positioning System (GPS) installed in it. The GPS system helps the compactor operator determine when the MSW is adequately compacted. At the time of the inspection, the working face was approximately 40 feet wide by 40 feet long.

3. The operator uses a spray-on alternative daily cover material (Posi-Shell) to cover the wastes at the end of the working day. The operator uses soil once per week as cover to meet a permit condition that requires soil to be used once per week as cover. The operator also uses petroleum contaminated soil (PCS) as daily cover. No vector issues were noted at the time of the inspection.

4. The landfill uses 30 portable litter fences at the working face and fixed litter fences around the MSW disposal area and the perimeter of the landfill to help control litter. There were a few pieces of litter noted in the portable litter fences. No litter was observed outside of the MSW disposal area. It was noted that some of the portable litter fences were in need of repair. The operator was told to get these fences fixed as soon as possible to help control litter at the site. The solid waste permit for the landfill requires the operator to perform at least daily litter pickup. Tollefson stated that the landfill employees perform daily litter pickup at the landfill. In addition, the Mitchell Street and Sanitation Department's collection workers also help pick up litter. The operator also picks up litter along 257th Street to South Dakota Highway 37 to the edge of Mitchell city limits.

5. In the past, the operator burned trees, tree branches, and untreated wood as needed. The operator now stockpiles the clean wood waste south of Cell #2. There's one large pile of trees and branches and another large pile of pallets and untreated wood. The operator has an agreement with Mueller Pallet to have them come to the landfill and grind the clean wood waste for recycling/reuse. Olson said that oversized tree trunks that cannot be ground will likely be hauled to the Mitchell restricted use facility for disposal.

6. The operator accepts a number of special wastes for disposal or temporary storage and future recycling. The landfill will accept pesticide containers from the public for disposal. The operator requires the pesticide containers be triple rinsed and punctured prior to acceptance at the landfill for disposal. Olson stated that the landfill receives very few pesticide containers anymore due to the SD Department of Agriculture's pesticide container cleanup program. The operator does accept PCS for disposal. The operator's permit has a variance in it that allows the landfill to accept PCS for use as daily cover or direct disposal provided that the PCS is not a hazardous waste. The landfill does accept asbestos for disposal. The asbestos is buried with MSW in the lined disposal area and its location and elevation is mapped by the operator's engineering department. The operator does accept dead animals for disposal at the landfill. The dead animals are mainly small household pets and small roadkill animals. The dead animals are disposed of directly in the active fill area and covered with MSW immediately.

7. The landfill accepts materials that could go to a restricted use facility for disposal. The landfill buries these materials with MSW in the lined disposal area. The landfill does accept lead-acid batteries from the public for temporary storage and future recycling. Batteries are picked up for recycling by German Auto, Dimock, SD. The landfill does not accept waste oil from the public. The landfill refers the public to local businesses that will accept waste oil from the public. The landfill stores the waste oil that it generates in a 260-gallon tank, and the tank is clearly labeled as waste oil. The operator has LubeTech Liquid Recycling from DeSmet, SD, pick up the waste oil for recycling.

8. The landfill accepts appliances that contain refrigerants for temporary storage and recycling. The landfill has staff that is certified to remove the refrigerants from the appliances. The operator temporarily stores the refrigerants on-site. The operator periodically takes the refrigerants to Johnstone Supply, Sioux Falls, SD, for recycling. The operator has H&R Salvage come to the landfill and they recycle the appliances, white goods, and other salvageable metal the landfill collects. The operator accepts waste tires for temporary storage. The operator has New Deal Tire, LLC of Groton, SD, pick up the waste tires for processing. The operator's permit allows the landfill to dispose of quartered/shredded tires within the lined MSW disposal area. The landfill disposed of 64.7 tons of shredded tires in 2013 and 65.2 tons so far this year. The operator does accept yard waste from the public for composting. The composting area is located west of the scale house and has been constructed with a recycled asphalt/concrete base. The composting area has been designed to control surface water run-on and runoff. Surface water that comes into contact with yard waste is handled as leachate and is directed to a storage pond located west of the composting area. The operator uses a misting system on the edge of the storage pond to help reduce the amount of compost leachate being stored in the pond.

9. The operator conducts random inspections of incoming waste loads to ensure no unauthorized wastes are being disposed of at the landfill. Landfill personnel are also trained to recognize hazardous or suspicious wastes. The load inspection sheet includes information as to the date of the inspection, vehicle identification, materials noted in the load, whether any additional action was taken and locations for the landfill employee and hauler to sign the inspection sheet. Olson, Tollefson and one other landfill employee are Manager of Landfill Operations certified through the Solid Waste Association of North America. The landfill employees periodically have personnel and safety training with other city of Mitchell employees as well as attending SD Solid Waste Management Association meetings where additional training opportunities exist. All newly hired employees are trained on landfill operations.

10. The operator maintains computerized tonnage reports. A copy of the 2013 and the 2014 Jan. - June tonnage reports were provided by the operator and are attached to this inspection report. Dependable Sanitation, Aberdeen, SD, offers recycling services to the city of Mitchell. Dependable Sanitation collected approximately 1,057 tons of recyclable material in 2013. The Mitchell Street Department recycled over 17,200 tons of asphalt and concrete in 2013. Other recycling and reduction efforts are done at the county and local levels. The operator updated the Source Reduction and Recycling Plan for the landfill as part of the 2011 permit renewal application.

11. The operator's engineering department performs fill progression survey calculations at the landfill. The operator maintains copies of past permit applications, permits, plans and specifications and other required information at the scale house and the Mitchell Street and Sanitation Department.

12. Leachate from the lined MSW disposal is collected in a subsurface collection system which pipes the leachate to the Mitchell wastewater treatment facility for disposal. The treatment facility is adjacent to the landfill on the north side of the permitted boundary of the landfill. During the first six months of this year, the landfill has sent approximately 817,700 gallons of leachate to the Mitchell wastewater treatment facility. The operator has the leachate tested twice per year as part of the landfill's monitoring plan. In addition, the wastewater treatment facility tests the landfill leachate twice per year.

13. The operator has hired Leggette, Brashears and Graham (LBG), Inc., to perform ground water monitoring and methane gas testing at the landfill. A review of the quarterly methane gas testing results for 2013 showed that methane gas was not detected anywhere at the landfill.

Closure and Postclosure (ARSD 74:27:15)

The operator updated the closure and postclosure plans late last year. A review of the closure and postclosure plans showed that the plans were adequate and in compliance with state rules.

Financial Assurance (ARSD 74:27:16)

There is a written estimate for closure and postclosure costs in the file. The operator updated the closure and postclosure costs in 2013. The estimated total cost calculated for closure and postclosure was $1,756,185. The accrued liability for the landfill through 2013 was calculated at $307,918.77. As of May 31, 2014, the operator had set aside $347,584.64 for closure and postclosure costs. The financial assurance mechanism for the closure and postclosure accounts is adequate and in compliance with the rules.

Transportation (ARSD 74:27:17)

There is a sign at the entrance to the landfill referencing a city ordinance (City Ordinance #1981, Section 30-23) that requires all incoming loads to the landfill must be secured to prevent littering. The transporter of an unsecured load is fined $10.

Ground Water Monitoring (ARSD 74:27:19)

The operator has hired LBG, Inc., to perform ground water monitoring for the landfill. LBG submitted the required annual report of statistical analysis for the 2013 ground water monitoring data for the landfill on March 27, 2014. This office has not yet reviewed the 2013 annual report.

Reminder

1. The operator is reminded to make repairs to the portable litter fences to better control windblown wastes at landfill.

FACILITY RATING

Operations at the Mitchell Municipal Solid Waste Landfill are deemed: **Acceptable**

Signature of Inspector: Jason Kopp Date: Aug. 1, 2014

Inspection photos from the Mitchell Landfill – July 10, 2014

This photo shows the main gate and informational sign posted at the entrance to the landfill.

Photo shows a sign posted at the main gate informing customers that all loads must be secured.

This photo shows the white goods and salvageable metal storage area. The material is placed in the roll-off container for H&R Salvage to pick up for recycling.

This photo shows the landfill's waste tire stockpile. The operator has New Deal Tire, LLC comes periodically to pick up the waste tires for processing.

This panoramic photo shows some of the piles of yard waste at the landfill. The pile at the left is yard waste that's been collected this year. The pile on the right is finished compost that's been screened and available to the public free of charge.

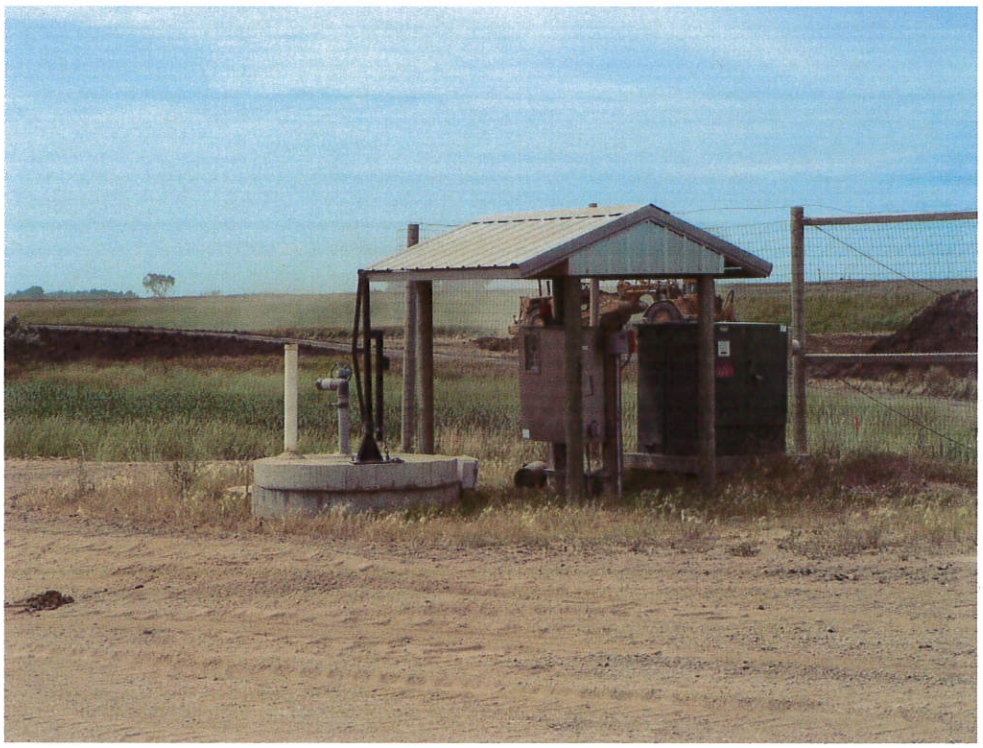
This photo shows the landfill's storm water pond looking west across the pond.

This photo shows a typical section of the wetland mitigation area south of the landfill's storm water pond.

This photo shows the large pile of clean lumber and pallets in the foreground and the large pile of trees and branches in the background.

This photo taken south of Cell 2 shows the active working face and unloading area encircled with portable litter fences.

This is a close-up view of the active working face. The working face was approximately 40 ft. by 40 ft. at the time of the inspection.



This photo shows the lift station and control system that's used to pump leachate from the landfill to the Mitchell wastewater treatment facility.