SOLID WASTE INSPECTION WORKSHEET

Agency:	Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division
Date:	May 12, 2016 Times: 10:35 AM - 6:45 PM
Site:	Milner Landfill Twin Enviro Services 20650 County Road 205 Steamboat Springs, CO 80487
Inspectors:	Brian Long, HMWMD Curt Stovall, HMWMD
Inspection:	Compliance/Routine Inspection
Site Representatives:	Marlin Mullet, Chief Financial Officer, Twin Enviro Services Luke Schneider, Compliance Officer, Twin Enviro Services
Other Participants:	Scott Cowman, Director, Routt County Dept. of Environmental Health Alan Goldich, Routt County Planning Department
Weather Conditions:	Sunny and mild

On May 12, 2016, staff from the Colorado Department of Public Health and Environment (the Department), conducted an inspection of the above-referenced property located in Milner, Colorado. The purpose of the inspection was to evaluate the compliance of the facility with the requirements set forth in the Solid Wastes Disposal Sites and Facilities Act ("the Act"), CRS 30-20-100.5 *et seq.*, with the Regulations Pertaining to Solid Waste Sites and Facilities, 6 CCR 1007-2 ("the Regulations"), and with the conditions of the approved Engineering Design and Operations Plan (EDOP) for the subject facility.

--Site History--

The Milner Landfill is located off of County Road 205 approximately one mile west of Milner, Colorado and approximately twelve miles west of Steamboat Springs, Colorado on U.S. Highway 40. The Landfill is located within the area of abandoned strip mining pits historically used for coal mining operations. According to the facility's EDOP, prepared by KRW Consulting, Inc., The mining operations likely concluded in the 1960's. After mining operations ceased the site was used for landfilling activities by Routt County. In 1983 Downhill Pick-Up leased the site and assumed control of the landfilling activities. Twin Enviro Services took over as operator of the facility in 1984, and is the owner and operator of the facility at this time. The property is approximately 149 acres in total.

--Records Review--

Records review was conducted as a part of this inspection. Records were reviewed both offsite prior to the inspection and onsite during the inspection event. Records reviewed included the

facility's approved EDOP, the Certificate of Designation (CD), the composting EDOP, the solidification basin EDOP, records of random load inspections, paint filter test records for the solidification basin, personnel training records, leachate monitoring and testing records, groundwater monitoring records, explosive gas monitoring records, and the financial assurance for the facility.

Recordkeeping for the solidification basin was substantially incomplete. Section 5.4.3.3 of the EDOP requires the facility to maintain an operation log. An operation log was not being maintained. The operation log form is contained in Appendix SB-E of the EDOP. One item that was noted to be missing from the operating record were complete records for paint filter testing of materials leaving the solidification basin to be disposed of in the landfill. It was noted during the inspection that some records of solidification events lacked any notation indicating a paint filter test had been performed. Mr. Luke Schneider, Compliance Officer for Twin Enviro Services, indicated that if there was no record of a paint filter test associated with a solidification event, then the assumption was that the test had not been performed.

It was also noted during records review that leachate monitoring and analysis records are required to be submitted to the Department with the facility's groundwater monitoring reports. However, the leachate monitoring information has not been submitted to the Department along with the groundwater reporting.

Records review and information provided by Mr. Schneider also indicated that a Statistically Significant Increase (SSI) has been noted in groundwater monitoring well MW-4. Mr. Schneider indicated that the specific contaminants of concern constituting the SSI were arsenic and chlorides. Monitoring well MW-4 is one of the down-gradient wells located at the facility.

--Site Inspection--

Access to the facility is made through a gate located off of County Road 205. Signage noting the landfill hours of operation and prohibited waste items was observed at the entrance gate to the landfill (see photos 1-4).

Department staff arrived at the Milner Landfill located at 20650 County Road 205, Steamboat Springs at approximately 10:35 AM. Department staff met with Twin Enviro staff Marlin Mullet, Chief Financial Officer, and Luke Schneider, Compliance Officer at the landfill office and scale house. At approximately 10:45 AM Scott Cowman, Director, Routt County Department of Environmental Health and Alan Goldich, Routt County Planning Department arrived onsite at the landfill. Twin Enviro staff provided an overview of past, current, and future site activities in the office, and then a tour of the facility was begun.

The inspection group left the main landfill office and headed south/southwest along the main landfill haul road. The first operational area of the facility observed was the organic recycling operation (composting) area of the facility. The facility operates as a Class I composting facility and accepts biosolids for processing. The area consisted of an in-process compost area as well as a finished compost storage area. The in-process area also included storage of biosolids that are accepted from the local publically owned treatment works (POTW) for composting. Mr. Schneider and Mr. Mullet indicated that their source of woodchip feedstock material has run out, but that they are still accepting biosolids from the POTW for processing. Turned windrow is the composting methodology being currently used at the facility, but Luke Schneider of Twin Enviro indicated that this had changed from an aerated static pile methodology in the recent past. Windrows were not

readily visible within the in-process compost area, and it looked as though there was a single stockpile of feedstock material. Mr. Schneider indicated that the finished compost being stored at the facility had analytical testing showing that it was acceptable as a finished compost material, but that the pile had not necessarily met the temperature holding times required in the regulations. The low permeability work pad for in process compost was noted to be in poor condition at the time of the inspection (see photos 5-6). Mr. Schneider indicated that this was likely due to snow clearing efforts that had been undertaken in this portion of the facility. Standing water was noted to be present on the work pad indicating that it was no longer sloped to provide effective drainage to the compost leachate collection pond. Much of the material that was scraped up during snow removal operations was being stored off of the work pad area near the finished compost pile. Snow removal operations had also scraped up in process (not finished) compost material (potentially including biosolids) and this has resulted in piles of snow, dirt, and compost materials being located off of the compost work pad (see photos 7-9). Ponding water was also noted to be present in this area. Department staff expressed concern over the fact that it appeared that run off from these materials (containing unfinished compost) was running down an adjacent hill and eventually coming into contact with a surface water / wetlands area. Storm water controls were either lacking or not being maintained to control runoff from this area. In fact, it appeared as though a portion of the slope running down to the surface water feature was slipping along a rift near the top of the slope (see photos 10-12).

A borrow area for the landfill was observable to the north of the CD boundary. Routt County and Department staff inquired as to whether this was an active borrow area facility representatives indicated that it was not active, and had not been for some time. The northern borrow area visible from the composting area was noted to be lacking in vegetation and it also appeared that run-off might be making its way down into the surface water / wetlands area located between this northern borrow area and the composting area (see photo 46). A second borrow area, located south and west of the northern borrow area became visible from higher elevations. From discussions with facility representatives and records review it did not appear that either borrow area was appropriately permitted.

The next area of the facility that was observed was the solidification basin. The facility receives Exploration and Production (E&P) liquids, and solidifies these and other liquids through the addition of fly ash material. While certain E&P liquids are exempted from the definition of hazardous waste, the EDOP limits the concentration of benzene in waste to no greater than 15 mg/l. Additionally, E&P waste containing a benzene concentration of 5 mg/l to 15 mg/l may be accepted in quantities of no more than 7,000 gallons per week. The basin had ash and liquid material present (see photos 13-14), but no activity was taking place in the solidification basin at the time of the inspection. It appeared that the facility had dug a trench for the storage of fly ash material directly to the west of the solidification basin in apparent conflict with the design of the structure (see photo 15). It appeared as though there might have been bottom ash stored in this area as well due to the presence of uncombusted coal residuals in the area (see photo 15). Twin Enviro staff indicated that repairs to the solidification basin liner system were conducted in the recent past, and that there had been no detection of constituents of concern from underneath the liner system. There is a directional well for liquid detection and sampling purposes. Additionally, a "coupon" (test media) is buried in the liner system to provide information about the liner integrity upon its excavation and analysis. However, Twin Enviro staff indicated that they did not know where the coupon was located.

In an area directly to the south / southwest of the solidification basin the inspection group observed a large area where heavy equipment was working a large amount of recently deposited

earthen material (see photo 16). Mr. Schneider explained that this was the destination for materials excavated from their current landfill expansion activities. Department staff again expressed concern that there were not adequate storm water controls in this area and that it appeared as though this material, as well as runoff from this material, was migrating down a slope and coming into contact with surface water / wetlands (see photos 17-18).

The inspection group then proceeded to the current active working face of the landfill. On the way to the working face a storage area for green waste and various roll offs for the collection of materials were observed (see photos 19-20). One of the roll offs was noted to contain waste tires being stockpiled for appropriate recycling. Mr. Mullet of Twin Enviro indicated that the staged green waste was material that was mixed with soil that needed to be processed. The green waste area wrapped around from an area across the main haul road of the facility from the southeast of the solidification basin towards the asbestos disposal area further to the southeast. Department staff indicated to Twin Enviro personnel that a management strategy for this green waste material would need to be implemented and that storage of this material could not continue indefinitely.

The group reached the active working face of the landfill and observations were made regarding the quantity and quality of cover materials in the area as well as operational conditions in this active area of the facility. Department inspectors noted that there was insufficient daily and intermediate cover in several areas surrounding the active working face of the landfill as solid waste was visible at the surface of the cover in a widespread area (specifically the area immediately surrounding the working face, the slope to the east of the working face, and the area to the south and southwest of the active working face) (see photos 21-24). No prohibited waste was noted to be present in the working face area of the landfill. Additionally, odors were noted to be consistent with normal landfill operations and not overly strong. Avian wildlife was noted to be present in areas near the working face and surrounding area where intermediate cover was not sufficient (see photo 25), but the numbers of birds was not considered to be a nuisance condition at the time of the inspection. Department staff also noted the presence of ponding water in an area with insufficient intermediate cover to the west of the active working face (see photo 26).

At this time additional observations were made of storm water control features near the southwest corner of the permitted landfill area. Some of the perimeter run on controls were observed as well as a retention pond located near the southwest corner of the facility. This pond discharged through an HDPE and galvanized steel outfall structure to a surface water / wetlands area in the southwest corner of the facility (see photos 27-29). Mr. Schneider said that this was one of the sample points for their storm water discharge permit. The group also observed additional storm water features in this area including drainage ditches along the toe of the landfill area. Ditches in this area were noted to be not well maintained and discontinuous along the perimeter of the landfill area (see photo 36).

Mr. Mullet indicated that some slope reconstruction had taken place in the recent past in the area along the western edge of the active landfill area (see photo 31). Mr. Mullet noted that this work was done to address an overfill area of the landfill where the appropriate grades had been exceeded. The overfill did not appear to extended beyond the lined portion of the facility, but that only the appropriate grades had been exceeded in this area. Mr. Mullet additionally noted that this activity would continue to the north of the area where repairs had initially been conducted. Department staff noted that most of this re-graded area appeared to have sufficient cover, but that there were patches where additional intermediate cover would need to be added.

One feature of note that was observed during the inspection was the presence of a green PVC discharge pipe located in the middle of the slope leading down to a surface water / wetlands area to the west of the active landfill area (see photos 32-33). Mr. Schneider explained that this pipe was the discharge point for intercepted groundwater under Module 5 of the landfill area. Department staff requested that this discharge be discussed with the Water Quality Control Division of the Department to make sure that it is appropriately permitted. Department Inspectors inquired with WQCD personnel and discovered that this is considered to be a discharge requiring permit coverage.

At this point the area to the south / southeast of the active landfill area was examined. It was noted that there was a significant landslide event that had occurred in this area. This area is directly south of the area of new construction taking place to construct the next module of the landfill (Module 7). It is presumed that excavation activities to the north destabilized this slope and due to this instability the hillside has failed and has moved from the south in a northerly direction (see photos 34-35). This slope instability may have major impacts for the completion of construction activities for Module 7. Department personnel indicated that this would have to be evaluated by the facility's engineering design team to ascertain any potential impacts to Module 7. A ditch conveying water from springs in this area (as well as storm water) was also noted to be present (see photo 36) and connects to the pond mentioned previously and depicted in photo 27.

The next area of the facility that was inspected was the asbestos waste disposal area. Twin Enviro personnel indicated that all asbestos waste (friable and non-friable) was deposited within this area even though only friable asbestos waste was required to be disposed of here. The asbestos waste disposal area was noted to be fenced and appropriate signage was present (see photo 37). A mobile home trailer unit was noted to be present within the asbestos waste disposal area. The trailer unit was noted to be uncovered at the time of the inspection. Mr. Schneider explained that the roof and floor of the unit contained non-friable asbestos, but that the plan was to move the trailer to the working face of the landfill for disposal instead of burying it in the designated asbestos waste disposal area. Department inspectors informed Twin Enviro personnel that the trailer, once delivered to the landfill, was considered non-friable asbestos waste and that it needed to be covered in accordance with the regulations. Another item of concern noted in the asbestos disposal area was that there was unpackaged uncovered asbestos waste on the ground surface within the disposal area (see photos 38-40). Mr. Schneider indicated that this was the first time that he was made aware of this situation, and that additional cover would be added to areas where asbestos waste was present on the ground surface.

The next stop during the inspection tour was an area to the north / northwest of the active landfill area where an apparent leachate seep was noted to be present. The seep appeared to be contained to a relatively small area, but was noted to be collecting in the perimeter storm water drainage ditch in this area (see photos 41-42). It was not readily apparent as to how far down the storm water management system this seep may have migrated prior to the date of the inspection. Twin Enviro personnel speculated that the seep was due to ground thaw occurring in the seep location. A sheen was noted to be present in the area of the collected seep in the ditch. Twin Enviro personnel indicated that a sample would be collected of the suspected seep to ascertain if it was indeed a leachate seep.

Windblown debris was not noted to be an issue around the majority of the facility or at the property boundary during the inspection event. However, one small area of windblown debris was noted to be present just to the north of the composting area on a hillside within a thicket of trees (see photo 43).

The leachate collection tank for the facility was also observed during the inspection event. Leachate is collected from the landfill area and pumped to this tank where it is off loaded to tank trucks for transport and processing at the POTW. The tank appeared to be in good condition and the secondary containment was noted to have water present (due to snow melt), but did not appear to have leachate present (see photo 44). The access point to the leachate pipeline was also examined and it was noted that the pipeline had a hole punched in it (see photo 45). There is a valve to shut off the flow of leachate to the tank should it be needed.

--Findings--

The facility was in apparent violation of the Act and the Regulations on the day of inspection and will be issued a Compliance Advisory. The following apparent violations were found:

Deficiency 1: Recordkeeping for the solidification basin was substantially incomplete in apparent violation of sections 5.4.2 and 5.4.3.3 of the EDOP, which require, among other things, the facility to maintain an operation log. Additionally, the facility has failed to perform the required random sampling in apparent violation of section 5.4.1.2 of the solidification basin EDOP. The facility failed to perform reactivity testing in apparent violation of section 5.4.1.5 of the solidification basin EDOP. The facility has failed to collect the required paint filter test for all solidification events prior to loads leaving the solidification basin to be disposed of in the landfill in apparent violation of section 5.4.3.2 of the solidification basin EDOP and section 2.4 of the Regulations.

Deficiency 2: Leachate monitoring records have not been submitted to the Department in conjunction with groundwater monitoring records in apparent violation of section 3.2.5 of the Regulations and section 4.4.6.2 of the approved EDOP.

Deficiency 3: There was insufficient interim/intermediate cover in several areas surrounding the working face of the landfill in apparent violation of sections 2.1.10 of the Regulations and section 4.4.7 of the approved EDOP.

Deficiency 4: The storm water control system was not being maintained to appropriately control run-off from the site in several areas in apparent violation of sections 2.1.6 and 14.3.3 of the regulations and section 4.6 of the approved EDOP. Additionally, the facility is not updating its Stormwater Management Plan and is not implementing required erosion control measures in apparent violation of requirements of Water Quality Control Division (WQCD) General Permit Number COR900000.

Deficiency 5: Ponding water was noted to be present in an area to the northwest of the landfill in apparent violation of section 2.1.10 of the Regulations.

Deficiency 6: Uncovered asbestos waste was noted to be present in the friable asbestos disposal area in apparent violation of section 5.3.7 of the Regulations. Additionally, an uncovered mobile home trailer unit containing non-friable asbestos waste was located in the friable asbestos disposal area in apparent violation of section 5.2.1 of the Regulations.

Deficiency 7: A trench for storage of fly ash materials has been dug adjacent to the mixing basin in the solidification basin area in apparent violation of section 5.4.4 of the Solidification Basin Design, Operation, and Closure Plan Amendment (Section 5.4 of the D&O Plan).

Deficiency 8: The low permeability work pad in the composting area was not sloped and/or maintained to provide drainage to the leachate collection pond in apparent violation of section 14.3.1(C) of the Regulations and section 5.5.2.1 of the approved EDOP. Additionally, the four inch woodchip layer specified in the design of the compost mixing pad was noted to be absent over much of the mixing pad in apparent violation of section 5.5.2.1 of the approved EDOP.

Deficiency 9: Borrow areas were noted to be present outside of the CD boundary of the facility. Since these areas have not been permitted by the Division of Mining Reclamation and Safety, and are not included in the facility's EDOP, they are considered to be unpermitted by the Department in apparent violation of Section 1.3.9 of the Regulations. Additionally, since these borrow areas are considered to be a part of solid waste operations at the site they should be included in the financial assurance for closure and post closure of the facility. The lack of financial assurance for these areas is in apparent violation of section 1.8 of the Regulations.

Compliance Assistance Items:

Compliance Assistance Item 1: Facility representatives indicated that the supply of woodchip bulking material has run out for their composting operation, but that the facility is still accepting biosolid feedstock material from the POTW for processing. The facility must develop a plan to compost the incoming biosolid feedstock materials using alternative bulking materials, or needs to evaluate ceasing the acceptance of the biosolid material for composting purposes.

Compliance Assistance Item 2: Facility representatives indicated that the composting process utilized at the facility has changed from an aerated static pile process to a turned windrow process. It was noted that this was due to the complexity and maintenance issues associated with the approved composting methodology (maintenance of the blowers was specifically mentioned). The Milner Landfill Compost Design, Operations and Closure Plan Amendment, dated March 31, 2009, allows for the use of various composting methodologies, but only lists the temperature holding times associated with aerated static composting. The facility should update the Department as to which composting methodology is being utilized at the facility and make sure that the correct temperature holding times are being utilized according to the methodology being employed.

Compliance Assistance Item 3: During the inspection event Mr. Schneider noted that the stockpile of finished compost material had passed analytical testing, but had not reached the temperature holding times (15 days at or above 55°C or 131°F; 15 days do not have to be consecutive) required by the Regulations for windrow composting. In order to be considered finished compost the material has to meet the required temperature holding times as well as the specified analytical requirements. Compost that has not met these requirements must be considered to still be in process and must meet the temperature holding time before it can be considered finished.

Compliance Assistance Item 4: A statistically significant increase (arsenic and chlorides was noted to have occurred in groundwater monitoring well MW-4. It is important that the facility work with the Solid Waste Permitting Unit to evaluate the SSI and determine a course of action regarding required assessment monitoring.

Compliance Assistance Item 5: A minor amount of windblown debris was noted to be present on a hillside north of the composting area within a thicket of trees. This windblown debris should be promptly collected and returned to the working face of the landfill.

Compliance Assistance Item 6: It was apparent during the inspection event that some stockpiling of excavated material from the landfill expansion excavation (module 7) was being stockpiled outside of the facility's CD boundary. This activity should only be conducted within the facility's CD boundary. Alternatively, the facility must update its EDOP and SWMP and receive approval from the Department and Routt County in order to conduct this activity outside the CD boundary.

Compliance Assistance Item 7: The facility should contact the Army Corp of Engineers in order to receive a determination of wetlands status for wetlands/surface water areas located within the facility boundaries. These determinations must be made before any of these areas are filled in (as is contemplated in future landfill expansion plans).

Compliance Assistance Item 8: A discharge point from an underdrain was noted to be present near the southwest corner of the active landfill area during the inspection event. This discharge needs to be permitted through the Water Quality Control Division (WCQD) of the Department. The facility should work with the WQCD to get this discharge permitted in a timely fashion.

Compliance Assistance Item 9: A large amount of green waste was being stored at the facility at the time of the inspection. Facility representatives indicated that some of this material (material stored across the haul road from the solidification basin) was mixed with soil and was therefore difficult to segregate for appropriate composting or disposal at the landfill working face. However, additional materials which did not seem to be mixed with soil were noted to be stored in a location to the south of the mixed soil/green waste pile which appeared to be "clean" green waste. This green waste storage is not contemplated in the facility's EDOP, and is therefore considered to be improper storage/disposal of this material. A plan for incorporating this material into the facility's composting operation or the working face of the landfill must be developed and implemented to prevent the facility from receiving a deficiency for this activity during future inspection events.

Compliance Assistance Item 10: During the inspection event it was noted that some re-grading has occurred on the western side of Module 4 of the fill area due to an overfill resulting in unacceptable grade. In addition to continuing to perform re-grading operations to maintain required side slope grades please provide documentation to the Solid Waste Permitting Unit demonstrating that the overfill condition has not occurred laterally in any areas beyond the liner system of Module 4 of the fill area.

Prepared by: Brian T. Long Date: 8/8/16

Brian T. Long
Environmental Protection Specialist
Compliance Assurance Unit
Solid Waste and Materials Management Program
Colorado Department of Public Health and Environment

Attachments:

Attachment 1	Photo Log - Photos Taken by the Department
Attachment 2	Notice of Inspection and Inspection Checklists

File: SW/RTT/MIL 1.2

Attachment 1 - Photo Log

Photos Taken by the Department

Photo 1: Landfill signage at corner of County Road 205 and US 40

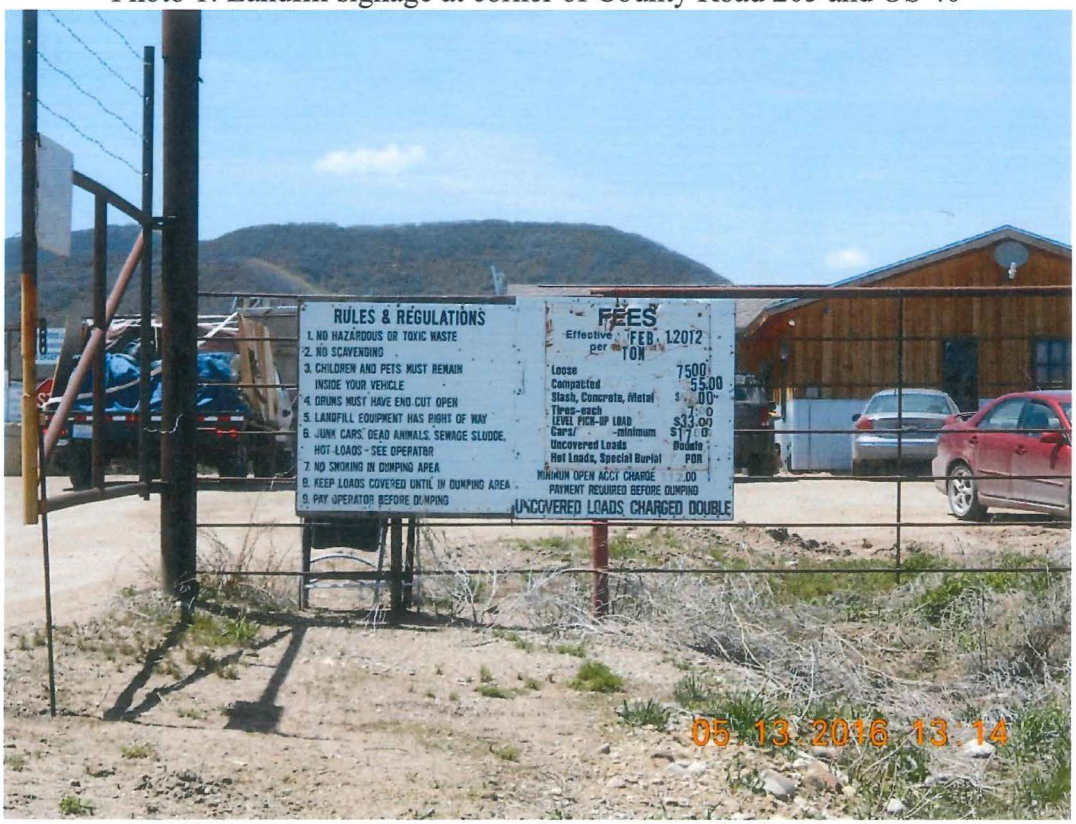

Photo 2: Landfill signage at front gate (prohibited items)

Photo 3: Landfill signage at front gate (hours and operator)

Photo 4: Lockable front gate of Milner Landfill

Photo 5: View of compost work pad area with in-process compost / biosolids material

Photo 6: Close up view of improperly graded compost work pad area (ponding water)

Photo 7: Snow scrape material in composting area

Photo 8: Snow scrape material stored in compost area with ponding water visible

Photo 9: Soil/compost material piled up along edge of compost area due to snow scraping

Photo 10: View of compost contact water/snowmelt pooling at edge of compost area

Photo 11: Pooling liquids at edge of compost area (note rift/destabilized area at slope)

Photo 12: Runoff water from compost area making its way to slope down to surface water/wetlands area over the destabilized slope shown in photo 11

Photo 13: Solidification basin with oily liquids and fly ash present

Photo 14: Alternative view of solidification basin with piles of fly ash visible

Photo 15: Trench area that has been dug directly to the west of the solidification basin for fly ash storage

Photo 16: Area south/southwest of the solidification basin where excavated material from new modules is being stored (note runoff channel visible through date stamp in photo)

Photo 17: Excavated material and runoff making its way down a slope to surface water/wetlands area

Photo 18: Additional view of material and runoff making its way down the slope

Photo 19: View of northwest corner or green waste storage area

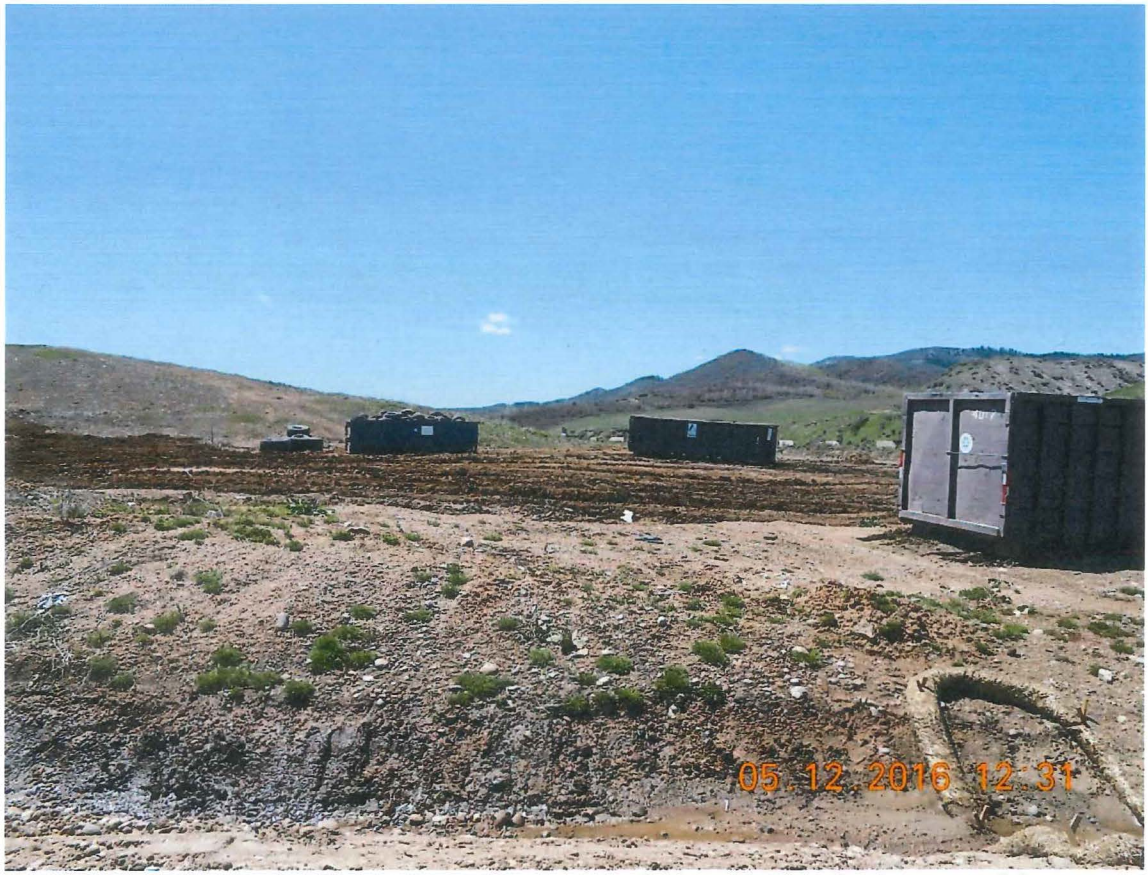

Photo 20: Roll off containers for storage of waste tires and other materials

Photo 21: View of slope west of active face of landfill, areas of insufficient intermediate cover present

Photo 22: Insufficient cover – top of slope west of working face

Photo 23: Area to the south / southeast of the working face that did not have sufficient cover

Photo 24: Slope to the east of the working face where insufficient intermediate cover was noted

Photo 25: Inadequate cover visible west of working face (birds noted to be present, but not in quantities to be deemed a nuisance condition)

Photo 26: Inadequate cover to the west of the active face (ponding water visible)

Photo 27: Storm water retention pond to the south/southwest of active landfill area

Photo 28: Outfall structure from retention pond noted in photo 27

Photo 29: Additional view of outfall structure from retention pond in photo 27 (outfalls to surface water body visible here)

Photo 30: View of drainage ditch at perimeter of landfill area; ditch is not well maintained and is discontinuous

Photo 31: Area of intermediate cover where repairs were made to correct an overfill condition

Photo 32: Discharge point for groundwater drain under landfill

Photo 33: View of the path that water discharged from drain under landfill takes to surface water

Photo 34: View of landslide area southeast of active landfill area and south of new module construction (note insufficient cover on slope to east of active landfill area)

Photo 35: Additional view of landslide area to south of new module construction area

Photo 36: Ditch conveying spring water and storm water near toe of landslide area

Photo 37: View of locked gate and signage at asbestos waste disposal area (note mobile home unit present in asbestos area)

Photo 38: Visible asbestos waste at ground surface in friable asbestos disposal area

Photo 39: More visible asbestos waste at ground surface in friable asbestos disposal area

Photo 40: Additional visible asbestos waste at ground surface in friable asbestos disposal area

Photo 41: View of leachate seep material collecting in storm water control ditch to the west of the landfill area

Photo 42: Additional viewof leachate seep material collecting in storm water control ditch to the west of the landfill area

Photo 43: Minor amounts of windblown debris present on hillside north of composting area (in thicket of trees)

Photo 44: View of leachate collection tank and secondary containment structure

Photo 45: View of leachate collection pipeline (note hole punched through pipeline)

Photo 46: View of borrow area to the north of the composting area

Attachment 2

Notice of Inspection and Inspection Checklist

Colorado Department of Public Health and Environment
Hazardous Materials and Waste Management Division
4300 Cherry Creek Drive South, Mail Code HMWMD-B2, Denver, CO 80246-1530
(303) 692-3350 http://www.colorado.gov/cdphe/solidwaste

Solid Waste and Materials Management Program
Notice of Inspection

Facility Name MILNER LANDFILL Trim Code SW/RTT/MIL	County ROUTT	Date 5/12/16
Street 20650 COUNTY ROAD 205	Announced? (X) Yes ( ) No	Time In: 10:35 AM
City MILNER Zip 80477	Enter by: (X) Consent ( ) Warrant ( ) Open Fields	Time Out: 6:00 PM
Facility Representatives: LUKE SCHNEIDER - COMPLIANCE OFFICER TWIN ENVIRO MARLIN MULLET - CEO TWIN ENVIRO	Phone [redacted] 303-304-5937 (c) 970-879-6985 (o) (o) 970-879-6985 (c) 970-819-5604	Email lschneider@twinenviro.com mullet@twinenviro.com
Local Government Representatives SCOTT COWMAN - DIRECTOR, ROUTT COUNTY DEPT ENV. HEALTH ALAN GOLDICH - PLANNING DEPT. ROUTT COUNTY	Phone (970) 870-5404 (970) 879-2704	Email scowman@co.routt.co.us agoldich@ " "

Results of the inspection indicate:

___ The facility is in compliance with the Act, Regulations and approved plans
___ The facility is in compliance, with the exception of the minor violations noted below
X The facility is not in compliance.

Apparent Violations and requested corrective actions:

SEE ATTACHED CHECKLIST

Compliance Assistance Delivered During the Inspection:

ONE MINOR AREA OF WINDBLOWN DEBRIS WAS NOTED AT NW SIDE OF COMPOSTING AREA. THIS AREA SHOULD BE ADDRESSED IN A TIMELY FASHION

Signature of Facility Representative Receiving Form:	Lead CDPHE Inspector: Brian Lovely
Name of Facility Official Receiving Form: MARLIN MULLET	Assisting Inspectors: CHET STOVALL

COLORADO DEPARTMENT of PUBLIC HEALTH ENVIRONMENT
Hazardous Materials and Waste Management Division
SOLID WASTE DISPOSAL SITE AND FACILITY INSPECTION

Time In: 10:35 AM

Time Out: 6:00 PM

Facility: MILNER LANDFILL

Inspection Date: 5/12/14

Landfill

Inspector(s): B. LONG ; C. STOVALL

Functional Category	Requirement Description	Citation	Violation Y/N/P	Note Reference
Record Review				
Certificate of Designation	Have a Certificate of Designation (CD) (or Approved EDOP for One's Own Waste Facility)	1.3.3	N	
	Illegal Disposal	1.3.3, 30-20-102	N	
D and O Plan	Operating in Accordance with Approved Design and Operation Plan	1.3.9, 3.3.2	Y	3
Duty to Comply	CD Conditions	1.3.5	N	
Fees	Solid Waste User or Annual Fees	1.7.3, 1.7.4	N	
Financial Assurance	Annually Update Financial Assurance for Inflation	1.8.3(C)	N	
General Provisions	Compliance with Department-issued compliance order	1.9.2	N	
	Compliance with other Department rules or local ordinances	2.1.1	—	
	Update Waste Characterization Plans for Required Disposal Prohibitions	16.6.6	N	
Operating Requirements	Approved Waiver conditions	1.5	—	
	Knowing Receipt of Hazardous Waste	2.1.2	N	
Personnel Training	Conduct Personnel Training	2.1.2(B)(3)	N	
Recordkeeping	Maintain Operating Record with all Required Elements	2.4; 3.4; 2.1.18(B)	Y	1
Reporting	Submitted Construction / Quality Assurance Report	3.2.7, 3.3.3		
Waste Analysis,Acceptance,HW E	Developed Closure Plan for Approval	3.5	N	
	Exclude Hazardous Waste	2.1.2(A)	N	
	Have and Follow Waste Characterization Plan	2.1.2(C)(2)	N	
Site Review				
Cover	Place Adequate Cover	2.1.10; 3.3.4; 3.3.5	Y	2
Explosive Gas Monitoring	Conduct Explosive Gas Monitoring	2.3.1; 2.3.2 ; 2.3.4; 3.4(C)	N	
	Properly Respond to an Explosive Gas Exceedance Response	2.3.3	N	
General Provisions	Motorized Equipment Disposal Prohibition	16.2	N	
Ground Water Monitoring	Compliance With Ground Water Protection Standards	2.1.15	P	6
	Implementation of a Groundwater Monitoring Program	2.2	N	
Nuisance Conditions Control	Adequately Fence Site and Prevent Debris From Escaping and Accumulating	2.1.7; 2.1.11	N	
	Control Nuisance Conditions: _____	2.1.3	N	
	Unauthorized Burning	2.1.9	N	
Operating Requirements	Co-Disposal of Sludge at the Working Face	2.1.13	N	
	Ensure Adequate Water is Available for Construction and to Minimize Nuisance Conditions	3.3.6	N	
	Ensure Adquate Cover is Available Throughout Site Life	3.3.5	N	

Facility: MILNER LANDFILL

Inspection Date: 5/12/16

Landfill

Inspector(s): B. LONG, C. STOVALL

Functional Category	Requirement Description	Not Insp	N/A	Citation	Violation Y/N/P	Note Reference
Nuisance Conditions Control	Adequately Fence Site and Prevent Debris From Escaping and Accumulating			2.1.7; 2.1.11	N	
	Control Nuisance Conditions:			2.1.3, 2.1.7; 2.1.11	N	
	No Unauthorized Burning			2.1.9	N	
Operating Requirements	Adequate amounts of water			3.3.6	N	
	Co-Disposal of Sludge at the Working Face			2.1.13	N	
	Ensure Adequate Water is Available for Construction and to Minimize Nuisance Conditions			3.3.6	N	
	Operate Leachate Collection and Removal System, Including Monitoring for Leachate Depth on Liner			3.2.5(D)	Y	3
	Place Waste in Most Dense Volume via Compaction or Other Approved Method			2.1.10	N	
	Restricted Unloading Area,Waste in Smallest Area, Working Face Size			2.1.10	N	
	Wind Speed Monitoring to Cease Operation During High Wind Warning			2.1.11	N	
Security	Control Access and Provide Site Security			2.1.8	N	
Surface Water Control	Maintain Stormwater Run-on and Run-off Control System			2.1.6; 3.2.6	Y	4
	Prevent Ponding of Water			2.1.10	Y	5
Waste Characterization,Acceptan	Disposal of Liquid Waste			2.1.14	N	
	Motorized and Electronic Equipment Disposal Prohibition			16	N	
	No Acceptance of Wastewater Treatment Plants Sludge, Septic Tank Pumpings or Chemical Toilet Waste Without Approval			2.1.12	N	
Water Protection	No Disposal of Waste Below or Into Surface Water or Groundwater			2.1.17	N	
	Prevent Water Pollution at or Beyond the Point of Compliance			2.1.4; 2.1.5	P	6

Site-Specific Engineering Design and Operation Plan Requirements:

Landfill

Note/Regulation Reference #	Comments and Deficiency Requests	Request Date	RTC Date
1	SOLIDIFICATION BASIN WASTE IS REQ. TO PASS PAINT FILTER TEST - OPERATING RECORD INDICATES PAINT FILTER TEST HAS NOT BEEN DONE FOR ALL SOLIDIFICATION BASIN WASTE LOADS - REQ ACT - IMMEDIATELY BEGIN PERFORMING PAINT FILTER TESTS FOR ALL SOLIDIFICATION BASIN WASTE.		
2	A MINIMUM OF 6" DAILY COVER REQ - AREAS NEAR WORKING FACE WERE NOTED NOT TO HAVE REQ AMTS OF COVER. ADDITIONALLY, AREAS OF INTERIM CLOSURE WERE NOTED TO HAVE SOLID WASTE PRESENT AT SURFACE. REQ ACTION - IMMEDIATELY BEGIN PLACING REQ. DAILY COVER + W/IN 30 DAYS PLACE SUFFICIENT INTERIM COVER TO COVER ALL VISIBLE SOLID WASTE.		
3	LEACHATE MONITORING REQ TO BE SUBMITTED W/ GW MONITORING - RECORDS OF LEACHATE MONITORING HAVE NOT BEEN SUBMITTED TO THE DEPT. REQ ACT. - SUBMIT RECORDS (EXISTING) OF LEACHATE MONITORING W/IN 30 DAYS + SUBMIT FUTURE MONITORING OF LEACHATE W/ GW MONITORING REPORTING.		

(4) STORMWATER CONTROL SYSTEM IS NOT BEING MAINTAINED TO CONTROL RUN-ON / RUN-OFF ADEQUATELY IN SEVERAL AREAS AT THE FACILITY. SPECIFIC AREAS OF CONCERN WERE NOTED DURING THE INSPECTION + WILL BE DETAILED IN AN INSPECTION REPORT.

REQ ACTION - WITHIN 180 DAYS MAKE REPAIRS / IMPROVEMENTS TO THE STORMWATER CONTROL SYSTEM TO ADEQUATELY CONTROL RUN-ON / RUN-OFF

(5) SECTION 2.1.10 OF ~~REGS~~ REQ'S PREVENTION OF PONDING ON LANDFILL ONE SMALL AREA OF PONDING WAS NOTED JUST TO THE NW OF THE WORKING FACE. REQ ACT. - W/IN 7 DAYS RE-GRADE TO ELIMINATE THIS AREA OF PONDING WATER

(6) LANDFILL COMPLIANCE OFFICER MIKE SCHNEIDER INDICATED THAT AN SSI HAS BEEN NOTED IN MW-4 (ARSENIC, CHLORIDES)

REQ ACTION - WORK W/ SOLID WASTE PERMITTING TO ADDRESS THIS ISSUE THROUGH ELEVATED ASSESSMENT MONITORING OR A CORRECTIVE ACTION PLAN

(7) SECTION 5.3.7 OF ~~REGS~~ REQUIRES ALL FRIABLE ASBESTOS WASTE BE COVERED W/ 9" SOIL OR 18" NON ASBESTOS COVER WITHIN 24 HOURS. SEVERAL AREAS OF EXPOSED ASBESTOS WAS NOTED TO BE PRESENT AT THE GROUND SURFACE W/IN THE FRIABLE ASBESTOS DISPOSAL AREA.

REQ ACT - IMMEDIATELY COVER ALL EXPOSED ASBESTOS WASTE W/ REQ AMTS. OF COVER.

ADDITIONALLY, A MOBILE HOME WAS PRESENT W/IN THE ASBESTOS AREA. THE MOBILE UNIT WAS INTACT + UNCOVERED BUT ONLY NOTED TO CONTAIN NON-FRIABLE ASBESTOS MATERIALS. THIS UNCOVERED WASTE IS APPARENTLY IN VIOLATION OF SECTION 5.2.1 OF THE REGULATIONS.

COLORADO DEPARTMENT of PUBLIC HEALTH ENVIRONMENT
Hazardous Materials and Waste Management Division
SOLID WASTE DISPOSAL SITE AND FACILITY INSPECTION

Time In: 10:35 AM

Time Out: 6:00 PM

Facility: MILNAR LANDFILL

Inspection Date: 5/12/16

Composting

Inspector(s): B. LONG, C. SOVALL

Functional Category	Requirement Description	Not Insp	N/A	Citation	Violation Y/N/P	Note Reference
Record Review						
Certificate of Designation	Certificate of Designation and Records			14.1.3(A) - (B); 14.7.1(K)	N	
	Illegal Disposal			1.3.3, 30-20-102	N	
Closure/Post-closure	Closure Plan			14.8	N	
Construction Quality Assurance	Construction QA_QC Plan Implementation			14.3.2(A)	N	
	Construction QA_QC Report			14.3.2(C)	N	
D and O Plan	Composting Plan for Class IV and V			14.11	N	
	D and O Plan Change			1.3.9	N	
	D and O Plan Submission			14.1.3(C); 14.10	N	
Duty to Comply	Duty to Comply			1.3.5, 14.4	N	
Fees	Solid Waste User or Annual Fees			1.7.3,1.7.4	N	
Ground Water Monitoring	Ground Water Monitoring			14.3.3(L)	N	
Operating Requirements	Approved Waivers			1.5	N	
Personnel Training	Personnel Training			14.3.3(J); 14.7.1(M)	N	
Preparedness and Prevention	Contingency Plan			14.3.3(G)	Y	1
	Fire Protection Plan			14.3.3(H)	Y	1
Recordkeeping	Recordkeeping			14.7.1	N	
Reporting	Reporting			14.7.3	N	
Site Review						
Closure/Post-closure	Post-closure Care and Maintenance			14.9, 2.6.1	N	
Construction Quality Assurance	No Operation prior to Department Approval			14.3.2(D)	N	
Financial Assurance	Financial Assurance			1.8; 14.3.3(B); 14.7.1(I)	N	
Ground Water Monitoring	Ground Water Monitoring			2.2.1(A); 2.2; 14.7.1(C)	N	
Nuisance Conditions Control	Nuisance Conditions Control			2.1.3; 2.1.7; 2.1.11; 14.3.3(D)	N	
	Nuisance Conditions Control			14.3.3(D); 2.1.3; 2.1.7; 2.1.11	N	
	Odor Control			14.3.3(I)	N	
Operating Requirements	Pathogen Reduction Methodology			14.3.3(K)	N	
	Work pad Area			14.3.1(C)	Y	2
Security	Access Control_Signage_Perimeter Fence			14.3.3(E)-(F); 2.1.8	N	
Surface Water Control	Stormwater_Leachate pond management			14.3.1(B)(6)-(7); 14.3.3(C)	Y	3
	Surface Water Control			14.3.1(B);14.3.3(C); 2.1.6; 2.1.10	Y	3
Waste Analysis,Acceptance,HW E	Waste Analysis,Acceptance,HW Exclusion			14.5	N	
	Waste Analysis,Acceptance,HW Exclusion			14.2	N	

Facility: MILNER LANDFILL

Inspection Date: 5/12/16

Inspector(s): B. Lowy ; C. Stovall

Composting

Functional Category	Requirement Description	Not Insp	N/A	Citation	Violation Y/N/P	Note Reference
	Waste Analysis,Acceptance,HW Exclusion			14.3.3(A)		

Site-Specific Engineering Design and Operation Plan Requirements:

Composting

Note/Regulation Reference #	Comments and Deficiency Requests	Request Date	RTC Date
1	SECTION 14.3.3(G) + 14.3.3(H) OF REGS REQ'S THAT COMPOSTING RDOP CONTAIN A FIRE PROTECTION PLAN + A CONTINGENCY PLAN. BOTH WERE NOTED TO BE MISSING FROM RDOP. REQ ACTION - INCLUDE THESE PROVISIONS IN UPCOMING RDOP REVISION		
2	REGS SEC. 14.3.1(C) REQ'S LOW PERMEABILITY WORK PAD SLOPED TO DRAIN TO LEACHATE COLLECTION POND. WORK PAD WAS NOTED TO BE IN POOR CONDITION AT THE SURFACE + PONDING OF WATER WAS NOTED ON THE WORK PAD. REQ ACTION W/IN 60 DAYS REPAIR WORK PAD TO ELIMINATE PONDING WATER + ALLOW SURFACE TO DRAIN TO LEACHATE COLLECTION POND.		
3	SURFACE + STORM WATER ARE NOT BEING ADEQUATELY MANAGED IN AREAS AROUND THE COMPOSTING LOCATION. WATER WAS NOTED TO BE RUNNING OFF INTO SURFACE WATER FEATURES. REQ ACT - WITHIN 180 DAYS MAKE REPAIRS / IMPROVEMENTS TO SURFACE / STORM WATER CONTROL FEATURES TO ADEQUATELY CONTROL THIS WATER (IN CONJUNCTION W/ #4 ON LANDFILL CHECKLIST).		