

MINUTES FOR APRIL 6, 2015
BOARD OF CHEROKEE COUNTY COMMISSIONERS
CHEROKEE COUNTY, KANSAS

CONVENE

Commissioner Hilderbrand called the regular session of the Cherokee County Board of Commissioners (The Board), to order and led all in attendance in the Pledge of Allegiance at 9:00 AM on Monday, April 6, 2015 in the Commission Room, #109 of the Cherokee County Courthouse located at 110 W Maple St., Columbus, Kansas. Commissioners Richard Hilderbrand, Charles Napier, Pat Collins, and County Clerk Rodney Edmondson were present.

Members of the press present: Larry Hiatt, Machel Smith, Jordan Zabel

State Senator Jacob LaTurner appeared before the Board just to say hello and to offer his assistance. He provided a brief legislative update.

A motion was made by Commissioner Napier to approve the Minutes of the BOCC Meeting for March 30, 2015. The motion was seconded by Commissioner Collins. The motion carried 3-0.

Mayor Dale Oglesby - City of Galena

He appeared before the Board to present a completed, signed Application for a Solid Waste Landfill Permit on behalf of the City of Galena. He asked the Board to complete page 10 of the application. The Board and Mayor Oglesby discussed the last public meeting and the proper procedure of anyone desiring to open a landfill needs to begin with the Solid Waste Committee. Mayor Oglesby stated that he presumed that since it was voted on, that they were removed from that process. He stated that they must be having a communication issue. Chairman Hilderbrand restated that it needs to start with the Solid Waste Committee. Commissioner Napier stated that he wants the Solid Waste Committee and our attorney to review the application.

Copies of the application were distributed to the Board and a scanned copy e-mailed to Mr. David Cooper, legal counsel to the Board concerning Solid Waste Issues.

Leonard Vanatta - County Road Supervisor
Gene Langerot - County Lot Supervisor

They appeared before the Board on routine county road business.

Department Heads - Monthly Reports

They met with the Board for their routine monthly meeting with the following Department Heads present: Barbara Bilke, Register of Deeds; Betha Elliott, Health Department; David Groves, Sheriff; Deana Randall, Human Resources; Jason Allison, Emergency Preparedness; Mark Hixon, Assistant Appraiser; Ralph Houser, Maintenance; Rodney Edmondson, Clerk; Wayne Elliott, 911 Addressing & Mapping.

Barbara Bilke - She provided a written report.

RU

Betha Elliott - She stated that the new generator at the Health Department worked great during the storms and power outage last Thursday night.

David Groves - He informed the Board that Senate Bill 45 concerning concealed and open weapon carry has been signed by the governor and takes effect on July 1st, 2015. That will now allow concealed weapons to be carried by individuals without a permit in the State of Kansas, including the first two floors of the Courthouse.

Deana Randall - She stated that cutoff for April will be the 15th.

Jason Allison - He stated that the storm in the northwest part of the county on Thursday has been classed an EF 0 tornado. He stated that the Courthouse being used as a storm shelter is creating some issues. There were approximately 125 people here Thursday night. He suggested the review of storm shelter rules.

Mark Hixon - He provided an update on the mapping project from Sidwell Co. stating that 14,816 of the 16,044 parcels have been completed. They anticipate late May or early June for completion. He informed the Board that they conducted 381 informal hearings on appraised values as compared to 73 last year. He appreciated the Sheriff's personnel having a presence in the Courthouse during the process.

Ralph Houser - He informed the Board that the old maple tree on the corner is probably on its last year before it rots out. He asked the Board to consider having someone do a carving on the huge trunk. The Board liked the idea and asked him to work on ideas for a carving. He also inquired about employee raises. The Board stated that they were waiting on the K.A.C. salary survey to be completed. Commissioner Collins stated that if it isn't completed by July 1st, they would need to proceed without it.

Rod Edmondson - He stated that they were preparing for tomorrow's election.

Wayne Elliott - He stated that they sold \$76 in maps and issued 1 new address for a cabin last month.

Sheriff Groves and Commissioner Collins addressed the Board about the need for assistance with storm shelter funding by USD 247 and the City of Weir for the school in Weir. They stated that the ground breaking will take place very soon and they would appreciate any assistance possible. They are faced with a need for \$100,000 for their matching funds part of the grant. Sheriff Groves offered \$25,000 from the revenue being generated by housing Kansas DOC inmates. Commissioner Collins stated that he would offer \$25,000 by not replacing one of his employees that passed away.

A motion was made by Commissioner Collins to give \$25,000 from Jail Revenue and \$25,000 from Road and Bridge Funds, for a total of \$50,000 to USD 247 for the storm shelter project in Weir. The motion was seconded by Commissioner Napier. Chairman Hilderbrand stated that he would like to see a funds report first. The motion carried 2-1 with Commissioner Hilderbrand voting no. Commissioner Hilderbrand stated that he was not opposed to the shelter, but he just wanted to check on the funds first.

C.W. Wilson - Citizen

He appeared before the Board concerning potholes on Boston Mills Road one mile west of 69A Highway.

RH

Nathan Coleman - County Counselor

He appeared before the Board regarding legal matters concerning Cherokee County.

He provided an update on a tax foreclosure sale question concerning the property purchased by Paul Adams in Baxter Springs. He has a copy of the information that was given to the purchasers before the sale began. He said that it states that buyers are responsible for taxes owed for the year the sale was held.

A motion was made by Commissioner Collins to enter an Executive Session with the Board and Mr. Coleman for a period of 15 minutes for the purpose of Attorney/Client Privilege. The motion was seconded by Commissioner Napier. The motion carried 3-0 at 11:52 AM.

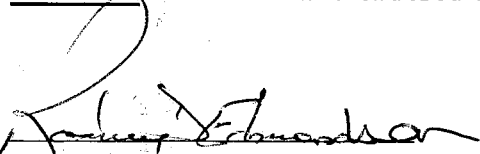
The meeting reconvened at 12:07 PM.

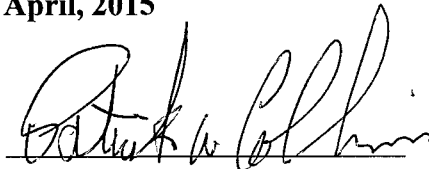
No action was taken during the Executive Session.

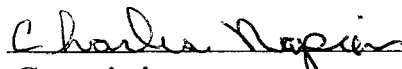
Commissioner Hilderbrand stated that Mr. Sam Marsh has resigned as Indigent Counsel as a result of being appointed Judge. He stated that the Board will fill the vacancy on May 4, 2015 at 11:30 AM.

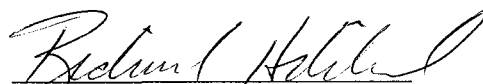
Commissioner Hilderbrand made a motion to adjourn until the next regularly scheduled meeting set for April 13, 2015 at 9:00 AM. The motion was seconded by Commissioner Collins. The motion carried 3-0 with all voting yes at 12:10 PM.

ATTEST: Resolved and ordered this 13th day of April, 2015


Cherokee County Clerk


Commissioner


Commissioner


Commissioner

Date: April 6, 2015

Project: The Sidwell Company GIS Cadastral Conversion

Subject: Project Progress Report

Project Status for the period March 1 through March 31, 2015

The vendor, Sidwell, has made significant progress in March and the project remains on schedule for completion in late May or early June 2015.

<u>Township</u>	<u>Parcels</u>	<u>Subdivisions</u>	<u>Annotation</u>
Neosho	470	4	1386
Lyon	542	3	1674
Spring Valley	3067	66	16873
Lowell & Garden	4241	143	23590
Shawnee	508	4	1701
Crawford/Salamanca	2682	72	12611
Lola			
Sheridan			
Ross	1105	32	6701
Mineral	1608	39	11943
Cherokee			
Pleasant View	593	4	1782
Totals	14,816	367	78,261



Galena SWMF
 April 2015
 Partial Application

K A N S A S

DEPARTMENT OF HEALTH AND ENVIRONMENT

** Items to be submitted
 with Detailed Design
 NA - Not Applicable
 TBD - To Be Determined

APPLICATION FOR SOLID WASTE LANDFILL PERMIT

I. Applicant information:

Applicant's name City of Galena
 Mailing address 211 W 7th Street Galena, Kansas 66739
 (Street Address) (City & State) (Zip)
 Person to contact Dale Oglesby Title Mayor
 Telephone (620) 783-5265 Fax (620) 783-5111
 E-mail address _____

Entity type (check one):

Federal Agency County Business
 State Agency City Individual
 Township Other _____

II. Site information:

Facility name Galena Solid Waste Management Facility
 Physical address SE Lostine Road Galena, Kansas
 (Street Address) (City & State) (Zip)
Cherokee County
1/4 of the, 1/4 of the, SW 1/4 of, Section 5, Township T34S, Range R25E

In the following table, fill in *total* areas and capacities (not just *remaining* values). "Existing" parameters should match the existing landfill permit and approved plans for an existing facility; or for a new facility leave the "existing" columns blank.

Parameters	Existing			Proposed		
	MSW	Ind.	C&D	MSW	Ind.	C&D
Property area (acres)				175		
Landfill types						
Disposal area (acres)				94		
Capacity (tons)				3,672,000*		
Capacity (cubic yards)				10,344,000*		
Capacity (years)				20		

* Volume subject to change based on detailed design

III. Type of application (check one):

New permit
 Modification* of an existing permit
 Transfer** of an existing permit

MSW = municipal solid waste landfill (see K.S.A. 65-3402(cc))
 Ind. = industrial waste (see K.S.A. 65-3402(x)) landfill; also
 includes waste tire monofills and asbestos monofills
 C&D = construction and demolition landfill (see K.S.A. 65-3402(v))
 * / ** See notes on page 2

DIVISION OF ENVIRONMENT
 Bureau of Waste Management
 CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 320, TOPEKA, KS 66612-1366
 Voice 785-296-1600 Fax 785-296-1592 www.kdheks.gov/waste

Application for Solid Waste Landfill Permit

* This application is required for "significant" modifications as defined in Bureau of Waste Management Policy 98-05 (any increase in property area, and/or increases of 10% or more in the disposal capacity). Minor modifications (those that do not meet the definition of "significant") are usually requested by submitting a letter with amended plans.

** This application is required if the applicant intends to manage different waste (types or characteristics), operate the facility differently, and/or if significant modifications are proposed. A streamlined application for simple permit transfers (name change or ownership change only) is provided on the Bureau of Waste Management web site.

IV. Facility type (check all that apply):

(For new permits identify the *proposed* facility type(s). For modifications or transfers identify the *existing* facility type(s).)

- Municipal solid waste landfill
 - Subtitle D
 - Small arid
- Industrial landfill
 - Asbestos monofill
 - Waste tire monofill
 - Other (list types of waste): _____
- Construction & demolition landfill

V. Modifications proposed (if existing facility; check all that apply):

- Increase property area
- Increase disposal capacity
- Add new type of disposal unit
 - Municipal solid waste landfill
 - Subtitle D
 - Small arid
 - Industrial landfill
 - Asbestos monofill
 - Waste tire monofill
 - Other (list types of waste): _____
 - Construction & demolition landfill
- Add processing unit (submit separate processing facility permit application form for each type)
 - Composting
 - Household hazardous waste
 - Incinerator
 - Land farm
 - Transfer station
 - Other: _____
- Other modifications (explain): _____

Application for Solid Waste Landfill Permit

VI. Items to submit with this application (check each item or indicate "NA" for not applicable):

"†" indicates a form is available on the Bureau of Waste Management web site.

For permit modifications (or transfers using this form), only submit items that must be updated. Items submitted in the past that are still effective, correct, applicable, and acceptable do not have to be resubmitted.

** Business Concern Disclosure Statement (BCDS)[†] or Public Entity Disclosure Statement (PEDS)[†]

Large companies (100 or more employees) or companies based in other states should use BCDS Form 1. Small companies (less than 100 employees) based in Kansas may use BCDS Form 2.

If the applicant submitted a BCDS to the Bureau of Waste Management within the past three years, then the applicant may either submit: a new, updated BCDS; an addendum to the BCDS to cover the period since the previous BCDS, including a new signed certification; or a signed certification that the previous BCDS is still applicable, that none of the information has changed, and that there is no new information to report.

If the applicant previously submitted a PEDS to the Bureau of Waste Management the Bureau would not normally require a new or updated PEDS.

** Proof that the applicant owns the property where the landfill will be located if the landfill is:

(from K.S.A. 65-3407(m)(3))

(A) A municipal solid waste landfill; or

(B) a solid waste disposal area that has:

(i) A leachate or gas collection or treatment system;

(ii) waste containment systems or appurtenances with planned maintenance schedules; or

(iii) an environmental monitoring system with planned maintenance schedules or periodic sampling and analysis requirements.

OR

NA Evidence that the applicant leased the property prior to April 1, 1999 if the permit will be for a vertical or lateral expansion contiguous to a permitted solid waste disposal area in operation on July 1, 1999

NA Copy of lease agreement (if the property is leased)

NA Application fee:

_____ \$5,000.00 for a new municipal solid waste landfill

_____ \$3,000.00 for a new industrial landfill

_____ \$1,000.00 for a new C&D landfill disposing more than 10,000 tons annually

_____ \$ 500.00 for a new C&D landfill disposing more than 1,000 and less than 10,000 tons annually

_____ \$ 250.00 for a new C&D landfill disposing less than 1,000 tons annually

Make check payable to: Kansas Department of Health & Environment.

A city, county, or other political subdivision or state agency is exempt from the application and renewal fees.

Application fees are not normally assessed for permit modifications and transfers unless the application constitutes a new permit (e.g., adding a municipal solid waste landfill at an existing C&D landfill).

NA Waste characterization

Required for industrial landfills except asbestos monofills, waste tire monofills, and other predetermined inert waste.

Submit Material Safety Data Sheets (MSDS) if available, and/or analysis of chemical constituents.

Application for Solid Waste Landfill Permit

NA Leaching tests

Required for industrial landfills when the waste characterization identifies constituents that pose a risk to groundwater quality.

Submit leaching test results using an EPA or ASTM method that most closely simulates the landfill environment.

** Hydrogeologic investigation (see K.A.R. 28-29-104(b))

Required for all municipal solid waste landfills, and required for industrial landfills used for disposal of non-inert waste.

Hydrogeologic reports may be submitted prior to submission of this application form.

** Request for Location Demonstration Information Regarding Distance from the Nearest Intake Point of a Public Surface Water Supply System[†]

** Location demonstrations (see K.A.R. 28-29-23(d), 102, 302, and Policy 02-02)

** Agency notifications and requests for comments

____ Kansas Biological Survey
____ Kansas Corporation Commission
____ Kansas Department of Agriculture - Division of Water Resources
____ Kansas Department of Wildlife and Parks
____ Kansas Geological Survey
____ Kansas State Conservation Commission
____ Kansas State Historical Society
____ Kansas Water Office
____ U.S. Department of the Army - Corps of Engineers
____ Other **US Fish and Wildlife**

Input from other agencies may be required.

** Map and description of abutting properties including location and land use, names and mailing addresses of property owners. If the proposed site is adjacent to a public road, include property across the road.

** Design drawings and calculations (see K.A.R. 28-29-6, 23, 103, 104, 304, 325)

** Groundwater monitoring plans and reports (see K.A.R. 28-29-111 through 113)

To be developed based on Hydrogeologic Investigation

Required for all municipal solid waste landfills, and required for industrial landfills used for disposal of non-inert waste.

Groundwater monitoring plans and reports may be submitted separate from this application form.

** Operations plan (see K.A.R. 28-29-23, 108, 308, 325)

** Closure and post-closure plans (see K.A.R. 28-29-12, 121, 304, 321, 325)

** Closure, post-closure, and estimated life worksheets[†]

Application for Solid Waste Landfill Permit

Closure cost estimate worksheets are required for all applications.

Post-closure cost estimate worksheets are required for all new permits, and for significant modifications (or transfers using this form) when the facility includes groundwater monitoring and/or gas monitoring.

Estimated life worksheets are required for all applications involving municipal solid waste landfills.

****** Construction quality assurance plan (see K.A.R. 28-29-12, 121, 321, 325, and Policy 00-04)

CQA plans must address construction of waste containment structures (liner/bottom and sides of disposal area, final cover) and permanent controls (storm water control structures, leachate collection systems). CQA plans should specify: responsible parties; types and frequencies of tests and observations; pass/fail criteria; methodology for addressing problems; and CQA report contents (summary of construction activities, representative photographs, field notes, test results, as-built drawings, and P.E. certification that the construction was in accordance with the approved plans (or describe any deviations)). CQA activities should generally conform to U.S. EPA's *Technical Guidance Document: Quality Assurance and Quality Control for Waste Containment Facilities* (EPA/600/R-93/182). CQA plans must be signed and sealed by a Professional Engineer licensed in Kansas.

****** Financial assurance[†] (see K.A.R. 28-29-2101 through 2113)

****** Liability insurance certificate (see K.A.R. 28-29-2201)

****** Restrictive covenant[†] (see K.A.R. 28-29-20)

Submit a draft restrictive covenant for Bureau of Waste Management approval prior to filing it with the Register of Deeds.

****** Notices of intent for storm water discharge (see <www.kdhe.state.ks.us/stormwater>)

Other items may be required if necessary to properly evaluate the application and satisfy state statutes, regulations, policies, and standards. Bureau of Waste Management staff will identify any additional requirements during the review process.

VII. Other facility information:

A. Land characteristics (general description)

Gently sloping agricultural land, partially wooded

B. Estimate existing site acreage devoted to the following uses:

Heavily wooded 15
Light brush 5
Grasses or pasture 154
Cultivated _____
Cleared or developed 1

C. Estimated acreage to be cleared 120 +

D. Proposed method of clearing TBD

Application for Solid Waste Landfill Permit

E. Onsite soil classification

_____ % Sand
10 % Silt
90 % Clay
 _____ % Other _____

F. If sufficient cover material is not available at the site, where will it be obtained?

Off-site, to be supplied by contractor

G. Existing/proposed land use within a one-mile radius (attach land use map if available).

	South	West	North	East
Residential	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>
Commercial	_____	_____	_____	_____
Light industrial	_____	_____	_____	_____
Heavy industrial	_____	_____	_____	<u>E</u>
Agricultural	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>
Mixed	_____	_____	_____	_____

Note "E" for existing and "P" for proposed.

H. Are there any wells within a one-mile radius? Yes x No _____

If "Yes" list types and legal descriptions 1) Agricultural use well on-site, 2) Public water supply well, RWD #2 approximately 0.8 miles south of site, 3) Multiple wells at Former Ordinance Works approximately 1.0 mile east of site. No other permitted wells identified in KGS database.

I. Access roads serving site

City _____ State X
 Township _____ Interstate _____
 County X Other (explain) _____

J. Types of road surface serving the site (indicate whether on or off site)

Concrete _____ Gravel _____
 Asphalt Off/On Crushed stone On
 Seal coat _____ Dirt On
 Soil cement _____ Other _____

K. Service Areas

Disposal site to serve:
 City X Township X County X Region X Business X

L. Will site be open to the general public? Yes x No _____

Application for Solid Waste Landfill Permit

M. Population data:

Population served by facility: Now 300,000 Next 10 Years 500,000
 Total area population: Now _____ Next 10 years _____

N. Distance to center of service area

Average haul distance (miles one way) 30

Characteristics of areas adjacent to major haul routes within one-half mile of the site
 (residential, commercial, schools, agricultural, etc.)

Agricultural and rural residential

O. Utilities (indicate whether on-site or nearby)

Water source (example: water main, bottled water, well) water line - RWD #2, on-site

Electricity Empire District, on-site

Telephone On-site

Sewer system (example: sanitary, lagoon, septic, privies) Septic system, on-site

P. Hours of operation

Days	MON	TUE	WED	THU	FRI	SAT	SUN
Hours	7-4	7-4	7-4	7-4	7-4	8-12	----

Q. Restrictions

Types of solid waste accepted:

Residential Industrial
 Commercial Construction/demolition
 Agricultural Other _____

Types of solid waste not accepted (in disposal area): **City/JDS**

Putrescible waste Junked automobiles
 Construction/demolition waste Dead animals
 Appliances Street sweepings
 Electronics Tires
 Asbestos Sewage sludge
 Treated wood Medical services waste
 Other (specify) _____

R. Employees and equipment

Number of employees on site (average daily) 24 with materials recovery facility (MRF)
 Equipment on site (normal operations) (2) compactors, (4) excavators, (3) dozers,
(4) haul trucks, (1) water wagon, (1) motor grader.

Application for Solid Waste Landfill Permit

S. Fire protection available (specify sources)

Water Rural Water District
 Firebreak _____
 Municipal fire department Galena

T. Tipping fees, other fees

(Optional) List the anticipated tipping fees and other fees (e.g., surcharge for unacceptable waste). These fees are subject to change without notice, at the permittee's discretion. _____
\$36.00 all inclusive

U. Estimated disposal rates

Parameters	Daily			Annually		
	MSW	Ind.	C&D	MSW	Ind.	C&D
Number of loads						
Types of Waste						
Total tons	583			182,000		
Total cubic yards	1,642			512,676		

V. Proposed post-closure site use(s)

- | | |
|---|--|
| <input type="checkbox"/> Wildlife habitat | <input type="checkbox"/> Parking |
| <input type="checkbox"/> Recreational | <input checked="" type="checkbox"/> Waste management/recycling |
| <input type="checkbox"/> Pasture | <input type="checkbox"/> Industrial |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Commercial |
| <input type="checkbox"/> Storage | <input type="checkbox"/> Other |

Describe proposed post-closure use(s): _____

VIII. Notes:

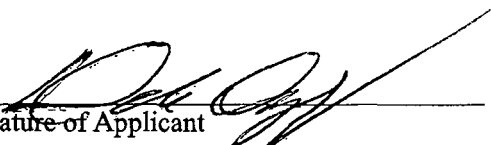
- Statutes and regulations, policies, technical guidance documents, forms, and other information are available on the Bureau of Waste Management web site <www.kdhe.state.ks.us/waste>.
- Call the Bureau of Waste Management at (785) 296-1600 and ask to speak with solid waste permitting staff if you have any questions about landfill requirements.
- Submit three sets of the completed application form and supporting documents to: Kansas Department of Health and Environment, Bureau of Waste Management, 1000 SW Jackson, Suite 320, Topeka, KS 66612-1366.
- The following steps occur after an application is received by the Bureau of Waste Management:
 - Preliminary evaluation to determine compliance with statutory requirements in K.S.A. 65-3407(c), (d), and (m).
 - Completeness review in accordance with BWM Policy 04-02.
 - Public meeting per BWM Policy 04-02.
 - Technical review to determine compliance with all statutes, regulations, policies, and standards.

Application for Solid Waste Landfill Permit

- (e) Public hearing per K.A.R. 28-29-6a.
 - (f) Final decision and processing.
5. When a facility receives a permit and begins accepting solid waste for disposal, a \$1.00/ton tonnage fee must be paid to the Kansas Department of Health and Environment. Refer to K.S.A. 65-3415b for rules and exceptions.
6. Active facilities must pay an annual permit renewal fee in accordance with K.A.R. 28-29-84. A city, county, or other political subdivision or state agency is exempt from the application and renewal fees.

IX. Applicant's Certification:

I hereby certify that the information in this application and in the supporting documents is true and correct to the best of my knowledge.



Signature of Applicant

Dale A. Oglesby

Name (Print or Type)

4/3/15

Date

Mayor

Title

City of Galena

Organization

X. Local Government Certifications:

See next page.

LOCAL GOVERNMENT CERTIFICATIONS

Applicant's Name City of Galena
Facility Name Galena Solid Waste Management Facility
Facility Location SE Lostine Rd, Galena, KS
Application Type (new permit, modification, or transfer) new permit

As specified in K.S.A. 65-3407 "Permits to construct, alter or operate solid waste processing facilities and solid waste disposal areas", the secretary shall require the following information as part of this application:

Solid Waste Management Plan Consistency

(m)(1) Certification by the board of county commissioners or the mayor of a designated city responsible for the development and adoption of the solid waste management plan for the location where the processing facility or disposal area is or will be located that the processing facility or disposal area is consistent with the plan. This certification shall not apply to a solid waste disposal area for disposal of only solid waste produced on site from manufacturing and industrial processes or from on-site construction or demolition activities.

I certify that, to the best of my knowledge, the facility described in this application is consistent with the Solid Waste Management Plan.

_____ Name (Print or Type)	_____ Signature	
_____ Title	_____ Date	
_____ County or City	_____ Street Address	_____ State, Zip Code

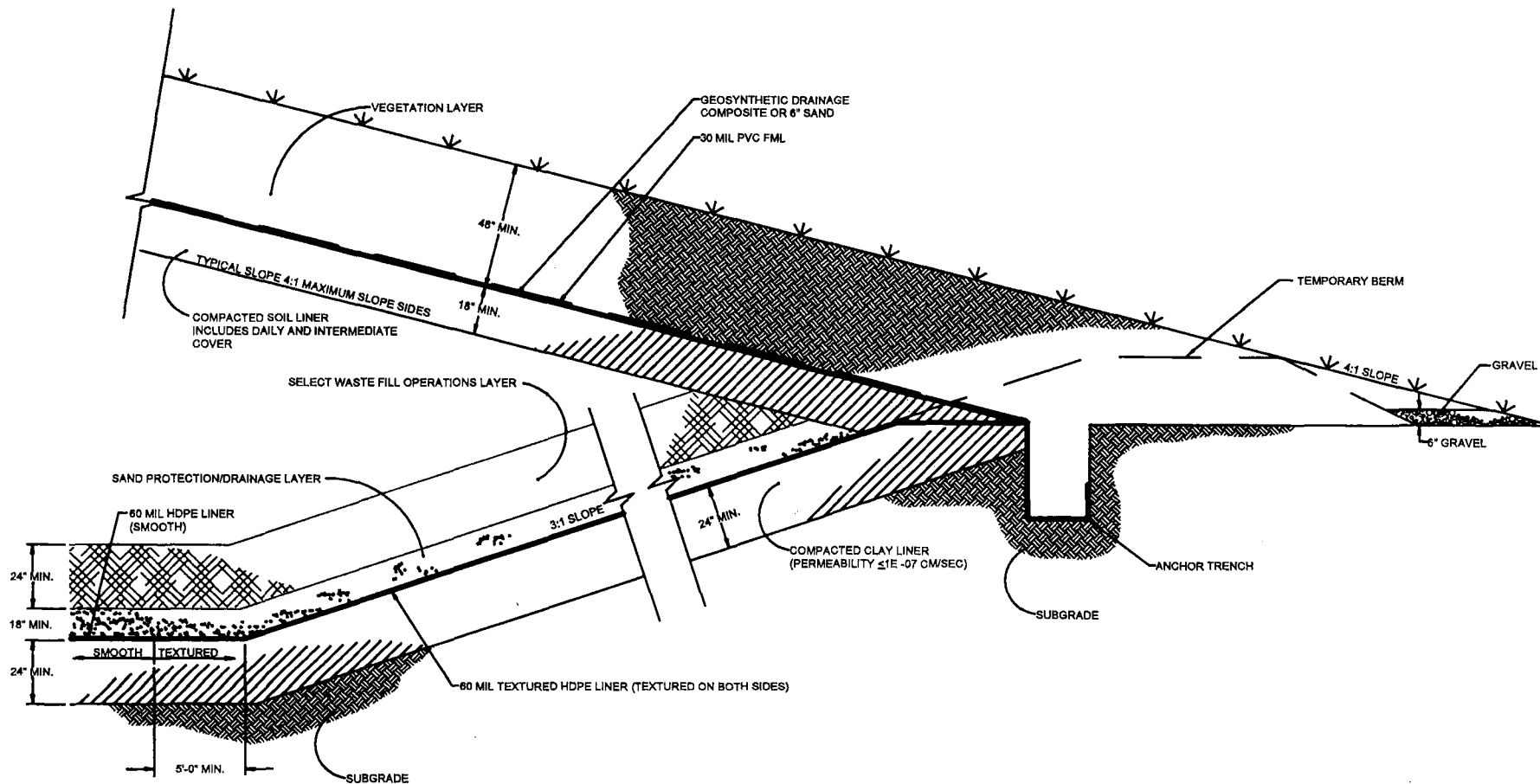
Zoning or Land Use Consistency

(m)(2) If the location is zoned, certification by the local planning and zoning authority that the processing facility or disposal area is consistent with local land use restrictions or, if the location is not zoned, certification from the board of county commissioners that the processing facility or disposal area is compatible with surrounding land use.

I certify that, to the best of my knowledge, the facility described in this application is consistent with (check one):
 local land use restrictions/zoning or surrounding land use.

_____ Name (Print or Type)	_____ Signature	
_____ Title	_____ Date	
_____ County or City	_____ Street Address	_____ State, Zip Code

If a special/conditional use permit is required, please attach a copy to this application.



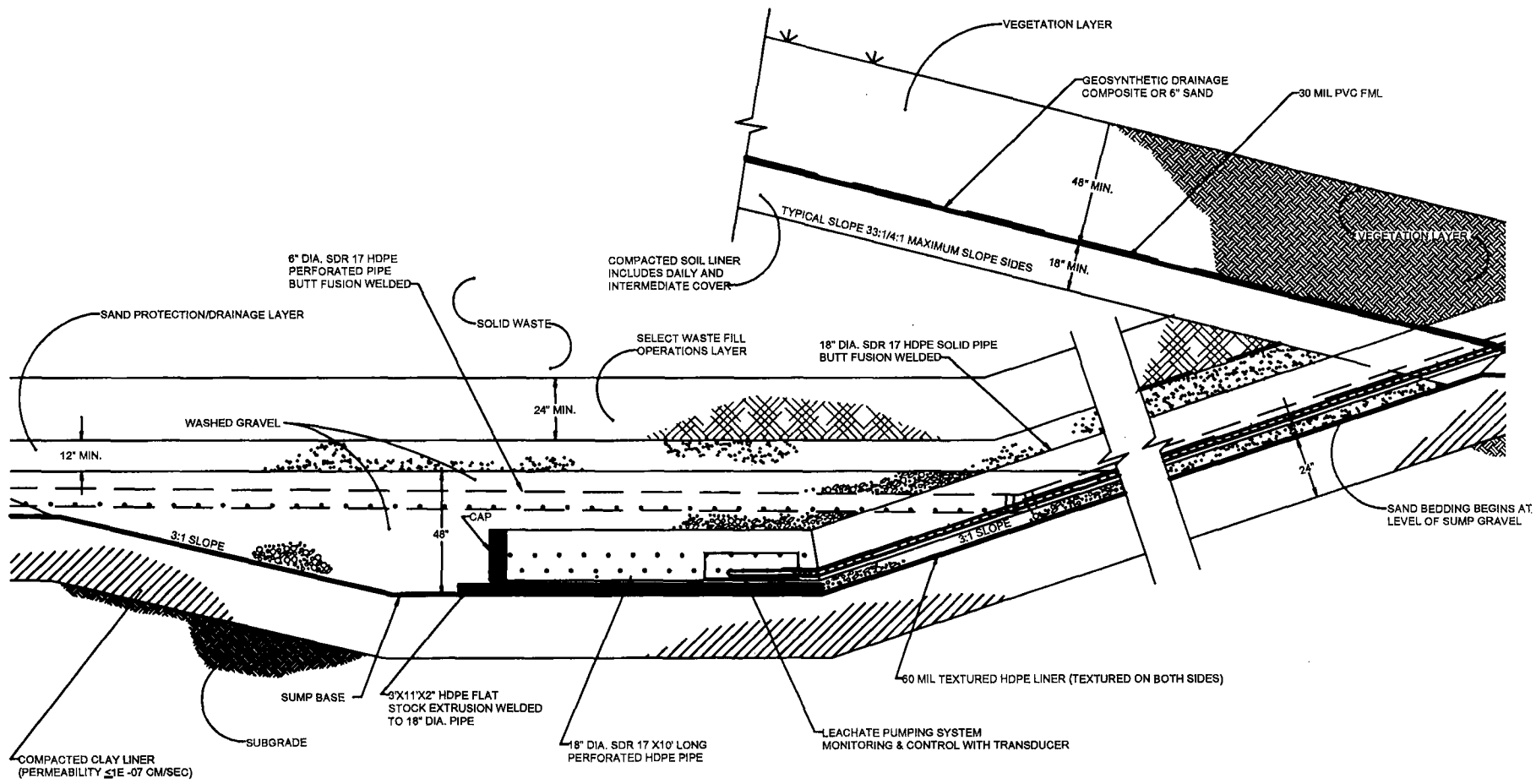
NOTE
 DETAILS SUBJECT TO CHANGE BASED ON A DETAILED DESIGN.

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mngr: ARM	Scale: NOT TO SCALE	Terracon Consulting Engineers and Scientists
Checked By: SML	Date: 3/30/15	
Approved By: ARM	Project No: 01147085	
Drawn By: BCB	File Name: 7085F3.dwg	
	1815 South Eisenhower Wichita, Kansas 67209 Phone: (316) 262-0171 Fax: (316) 262-6997	

TYPICAL FINAL COVER AND LINER DETAIL
CONCEPTUAL DESIGN GALENA SOLID WASTE MANAGEMENT FACILITY CHEROKEE COUNTY, KANSAS

FIGURE 3



NOTE
 DETAILS SUBJECT TO CHANGE BASED ON A DETAILED DESIGN.

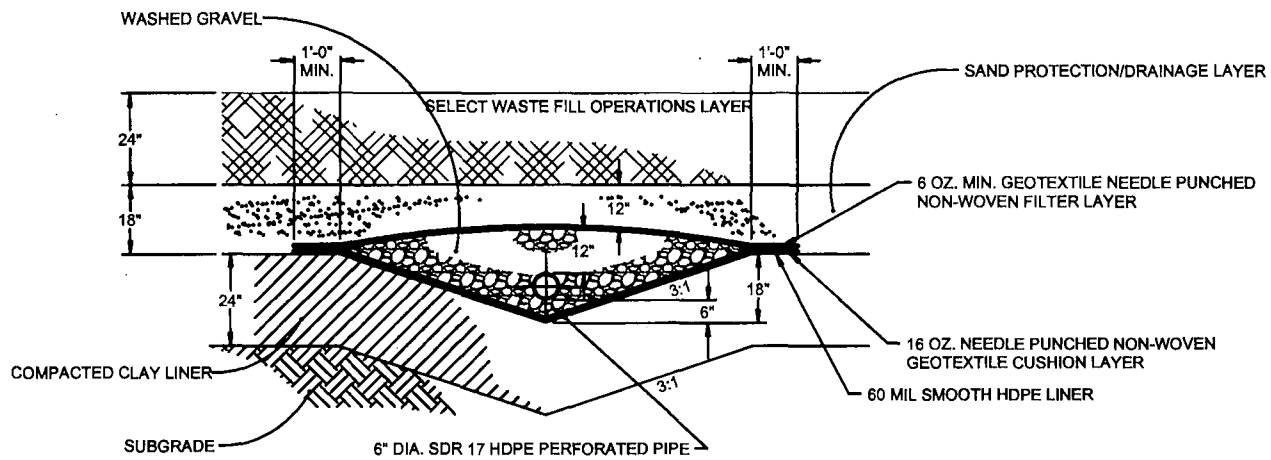
DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mng:	ARM	Scale:	NOT TO SCALE
Checked By:	SML	Date:	3/30/15
Approved By:	ARM	Project No:	01147085
Drawn By:	BCB	File Name:	7085F4.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

TYPICAL LEACHATE COLLECTION SUMP
 CONCEPTUAL DESIGN
 GALENA SOLID WASTE MANAGEMENT FACILITY
 CHEROKEE COUNTY, KANSAS

FIGURE
 4



NOTE
 DETAILS SUBJECT TO CHANGE BASED ON A DETAILED DESIGN.

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mngr:	ARM	Scale:	NOT TO SCALE
Checked By:	SML	Date:	3/30/15
Approved By:	ARM	Project No.:	01147085
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TYPICAL LEACHATE COLLECTION PIPE AND TRENCH DETAIL
 CONCEPTUAL DESIGN
 GALENA SOLID WASTE MANAGEMENT FACILITY
 CHEROKEE COUNTY, KANSAS

FIGURE
 5



April 1, 2015

Mr. Dennis Degner, P.E.
Section Chief
KDHE Bureau of Waste Management
1000 SW Jackson, Suite 320
Topeka, Kansas 66612

Tel: 785.296-1601
e-mail: ddegner@kdheks.gov

Cherokee County Commissioners
110 West Maple
PO Box 14
Columbus, KS 66725

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Re: Conceptual Facility Design
Galena Solid Waste Management Facility
HWY 69A/US400 and SE Lostine Road
Cherokee County, KS
Terracon Project No. 01147085

Dear Mr. Degner and Cherokee County Commissioners:

Terracon has prepared this Conceptual Facility Design (Design) on behalf of the City of Galena (City, Galena) and Jordan Disposal Services, Inc. (JDS) for the proposed Galena Solid Waste Management Facility (Facility, SWMF) in Cherokee County, Kansas. The City of Galena would like to permit the proposed Facility including a materials recovery facility (MRF) and a municipal solid waste (MSW) landfill (Landfill). The Facility will receive waste from the surrounding area for recycling and disposal. The MRF will increase recycling volumes for the area while significantly reducing the volume of waste for landfilling.

This submittal has been prepared to provide information to the Kansas Department of Health and Environment (KDHE) and Cherokee County (County) to facilitate the permitting process. Information presented herein, is also being provided to the County for review of this project for consistency with the Southeast Kansas Solid Waste Operating Authority Solid Waste Management Plan (Regional Plan).

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Environmental

Facilities

Geotechnical

Materials

A. PROJECT INFORMATION

The proposed Facility will be located approximately 3 miles northwest of Galena, Kansas (northeast of the intersection of Highway US 69A/400 and SE Lostine Road) and is generally located in the SW 1/4 of Section 5, Township 34 South, Range 25 East in Cherokee County. A Topographic Map (Figure 1) and Facility-Proposed Disposal Area (Figure 2) are attached.

The proposed Facility property (approximately 175 acres) adjoins Highway US69A/400 and one residential property along the west, undeveloped land and Burlington Northern and Santa Fe Railroad property along the north and northeast, undeveloped and residential property along the east, and SE Lostine Road along the south. The Facility will include a proposed waste disposal area that covers approximately 94 acres of the property (Figure 2).

Waste/material will be received at the MRF co-located with the landfill. The MRF will segregate recyclable materials which will be processed and transported off-site for recycling at third-party facilities. Remaining permitted solid waste will be disposed in the landfill. The MRF will be designed during the detailed design phase of this project.

A Conceptual Facility Design is discussed in the following sections.

B. CONCEPTUAL FACILITY DESIGN

This Conceptual Facility Design (Design) was developed based on the above information and other readily available data. The Facility location, along with existing site features, proposed land use, other easements, readily available data, and KDHE buffer/setback requirements were considered for this Design.

The Facility will be constructed in accordance with a KDHE-approved Detailed Design (Design Drawings, Design Specifications, Construction Quality Assurance (CQA) Plan, and other required documents). Multiple landfill cells will be constructed in phases over the operating life of the Facility. The Facility will also be operated in accordance with a KDHE-approved Facility Operation Plan (FOP).

After disposal operations cease, the landfill will be closed and post-closure care and monitoring will be implemented in accordance with KDHE-approved Closure and Post-Closure Care Plans. An overview of this design and proposed operations is provided in the following sections.

B.1 Facility Layout

The proposed Facility will include a permitted waste disposal area (Figure 2) and MRF (layout to be determined). The proposed waste disposal area (approximately 94 acres) was approximately

located to comply with KDHE buffer requirements (minimum 150 foot setback from property lines and minimum 500 foot setback from dwellings (reference regulation KHDE 28-29-102(j)).

The proposed site will undergo review by multiple state and federal agencies (Permit Application Item VI) and location restrictions (KHDE 28-29-102) will also be reviewed in more detail during the permitting process. A detailed survey by a Kansas Registered Land Surveyor will be conducted to document and confirm the final disposal area boundaries comply with KDHE's requirements. Information collected during this permitting process, as well as, utility lines, site features, and easements may affect the proposed disposal area boundary.

B.2 Cell Depth/Height

Under this conceptual design, the proposed landfill cell depths are currently estimated to be on the order of 45 to 65 feet below the land surface. A KDHE-approved Hydrogeologic Site Investigation (HSI) will be conducted to assess subsurface conditions and the site hydrogeology. The HSI results will be used to conduct a geotechnical evaluation and to develop a detailed design with cell design depths/elevations.

Proposed cell heights will be more than 50 feet above the natural grade of the facility. Design cell elevations will be established during the detailed design.

B.3 Cell Side Slopes and Floor Grades

Cell sides will be constructed to a maximum slope of 3H:1V(horizontal: vertical) (Figure 3). The cell floors will be constructed with a minimum approximate 1.0% slope to facilitate leachate and stormwater drainage. Additional engineering will be conducted during the detailed design to establish final design slopes, grades, and elevations.

B.4 Composite Liner System

After cell design elevations are achieved for the subgrade, a composite liner system will be constructed over the subgrade (Figure 3). Two components of the liner system include:

- A minimum 2-foot thick, low permeability, compacted soil layer (hydraulic conductivity $\leq 1 \times 10^{-7}$ centimeter per second); and
- A geomembrane of at least 60-mil thick high density polyethylene (HDPE).

This design complies with KDHE liner requirements for an MSW landfill.

The low permeability compacted soil layer will undergo construction quality assurance testing including moisture/density testing and permeability testing to document that the 2-foot thick layer complies with KDHE requirements. The HDPE geomembrane, installed directly over the

low permeability compacted soil layer also undergoes extensive testing at the manufacturer, at an independent laboratory, and in the field during installation. Seams are welded and tested to document liner installation meets the CQA requirements.

The composite liner system will be constructed to promote drainage of leachate to a collection system.

B.5 Leachate Management and Collection System

A leachate management and collection system will be constructed to comply with KDHE monitoring and leachate removal requirements (Figure 4). A typical system will include perforated collection pipe within a permeable gravel bed/envelope (Figure 5). The pipe and bedding will be located in a lined (composite liner) trench which will drain to a collection sump (Figure 4). The leachate will be monitored and pumped out to maintain less than 12 inches of leachate on the liner.

A minimum 12-inch to 18-inch thick sand (protection/drainage) layer will be placed over the leachate collection system and composite liner to protect these systems and promote drainage of leachate from the waste to the collection system.

A Hydrologic Evaluation of Landfill Performance (HELP) model will be run to evaluate the site-specific detailed design to confirm the design will meet leachate management requirements.

B.6 Facility Operations

As part of the Permit Application, a Facility Operation Plan (FOP) will be prepared for the SWMF operations and submitted to the KHDE for review and approval. The conceptual plan is for waste/material to be brought into the MRF by collection vehicles and recyclable materials and non-permitted waste segregated from permitted waste. Recyclables will be managed for proper transport off-site. Non-permitted waste will be properly containerized and disposed of off-site at permitted facilities. The remaining permitted waste will be disposed in the landfill.

The FOP will cover various items, including but not limited to, types of waste permitted for disposal, sorting procedures and storage operations for recyclables and non-permitted wastes, daily and intermediate landfill cover, disease vector control, gas monitoring and management, groundwater monitoring, air criteria, boundary control, surface water drainage, liquid restrictions, survey controls, compaction, phasing operations, working face, salvaging, recordkeeping, other operating standards, and operating flexibility.

The KDHE-approved FOP will be implemented in accordance with the KDHE Permit requirements.

B.7 Landfill Cover

After waste operations cease for a given area/phase, a final cover will be constructed over that area. The typical final cover will be composed of a minimum of 18 inches of compacted soil, a 30 mil PVC liner, a geosynthetic drainage composite or 6-inch thick sand layer, and a minimum 48-inch thick vegetation layer (Figure 6). The final cover will be constructed with maximum side slopes of 4H:1V(horizontal: vertical) and a minimum top grade of approximate 2.0%. This typical final cover design may be modified for site-specific conditions or may comprise a KDHE-approved alternate cover.

B.8 Stormwater Management

Associated stormwater controls (i.e., berms, channels, stormwater ponds) will be used to manage stormwater at the Facility. Stormwater control measures will be implemented and modified over the different stages (i.e., construction, operation, closure) of the Facility's life, as needed. Stormwater controls will be maintained to manage a 25-year, 24-hour storm event. At minimum, an earthen perimeter berm will be constructed around the active Phase of a cell and will be maintained and/or expanded over the operating life of the cell. Grading and temporary berms will be used for stormwater management during operation and closure. If necessary, design and construction of a stormwater (retention) pond will be conducted as landfill operations come above grade and/or final cover is constructed.

A Notice of Intent (NOI) for Stormwater Discharges Associated with Industrial Activities under the National Pollutant Discharge Elimination System (NPDES) General Permit will be prepared and submitted to the KDHE for approval. As part of the NOI, the Facility will develop a Stormwater Pollution Prevention Plan (SWPPP) to identify potential pollution sources and prevent pollution to stormwater leaving the Facility. The Industrial SWPPP will also identify stormwater control features (i.e., berms, channels, retention ponds).

Planned construction for the Facility will result in an aggregate soil disturbance greater than 1 acre. Therefore, a Construction NOI will be submitted to KDHE and a Construction SWPPP will be prepared. Best Management Practices (BMPs) and/or controls presented in the Construction SWPPP will be utilized to prevent discharge of pollutants during construction.

During Landfill operation, leachate shall be contained within the waste disposal area via the perimeter berm, composite liner system, and leachate collection system. The liner system will be sloped to promote drainage of leachate to the leachate collection system.

C. CONCLUSIONS AND RECOMMENDATIONS

This Conceptual Design has been developed to facilitate the permitting process for the proposed SWMF. The conceptual design criteria, presented herein, are generally consistent with KDHE's typical design requirements for a facility of this type. Additional information will be required and collected to address various permit application items and prepare detailed drawings, specifications, and plans to address KDHE's permitting requirements.

A Kansas Registered Professional Engineer will prepare the Detailed Design (Design Drawings, Design Specifications, Construction Quality Assurance (CQA) Plan, and other required documents) for KDHE review and approval. A Kansas Registered Professional Engineer or his/her designee will also conduct observation and testing to ensure that construction is completed in accordance with the detailed design.

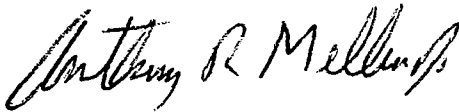
D. GENERAL COMMENTS

This Conceptual Design has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical and environmental engineering practices, within the limitations of our workscope. This Conceptual Design is subject to change based on KDHE's review/comments, other agency review/comments, and additional data collected during the permitting/design process.

Terracon does not warrant the work of regulatory agencies or other parties supplying information which may have been used during the preparation of this letter. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations.

City of Galena and JDS request the KDHE's review and approval of this submittal and Cherokee County Commissioner's review of this project for consistency with the Regional Plan. If KDHE or the County have any questions or require additional information, please contact us.

Sincerely,
Terracon Consultants, Inc.



Anthony R. Mellini, Jr., P.G.
Sr. Project Manager



Steven M. Linehan, P.E.
Environmental Dept. Manager

Attachments

- Permit Application (Partial-April 2015)
- Figure 1. Site Location Map
- Figure 2. Facility-Proposed Disposal Area
- Figure 3: Typical Final Cover and Liner Detail
- Figure 4: Typical Leachate Collection Sump
- Figure 5: Typical Leachate Collection Pipe

cc: Dale Oglesby, City of Galena
Brian Jordan, Jordan Disposal Services, Inc.