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ENVIRONMENT DEPARTMENT

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RYAN FLYNN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

Certified Mail - Return Receipt Requested

April 21, 2016

Mr. Doug Hintze, EM Field Office Manager
USDOE EM-LA
PO Box 1663
Los Alamos, NM 87544

Re: Los Alamos Airport/Landfill Cover Construction, Construction Storm Water, SIC 1629, NPDES Compliance Evaluation Inspection, NPDES Permit NMU001914, April 7, 2016

Dear Mr. Hintze:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Introduction, treatment scheme, and problems noted during this inspection are discussed in the "Further Explanations" section of the inspection report.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Racquel Douglas
US Environmental Protection Agency, Region VI
Enforcement Branch (6EN-WM)
1445 Ross Avenue
Dallas, Texas 75202-2733

Bruce Yurdin
New Mexico Environment Department
Surface Water Quality Bureau
Point Source Regulation Section
P.O. Box 5469
Santa Fe, New Mexico 87502

If you have any questions about this inspection report, please contact Sarah Holcomb at 505-827-2798 or at sarah.holcomb@state.nm.us.

Sincerely,

/s/ Bruce Yurdin

Bruce Yurdin
Surface Water Quality Bureau

Cc: Carol Peters-Wagnon (6EN-AS) by email
Everett Spencer, USEPA (6EN-AS) by email
Darlene Whitten-Hill, USEPA (6EN-AS) by email
Racquel Douglas, USEPA (6EN-WM) by email
Robert Italiano, NMED District 2 Manager, by email
Ramoncita Massey, USDOE Los Alamos Field Office, NA-LA
Timothy Moore, Project Engineer, CTI, by email
Bryan Aragon, Los Alamos County, by email

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspec. Type	Inspector	Fac Type
1 N 2 5 3	N M U 0 0 1 9 1 4 11	12 1 6 0 4 0 6 17	18 C	19 S 20	2

Remarks

C O N S T R U C T I O N > 5 A C R E S

Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved
67 69	70 3	71 N 72	N 73 74	75 80

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number)*	Entry Time /Date	Permit Effective Date
Los Alamos Airport/Landfill Cover Construction Project, Los Alamos County, NM. From Santa Fe, travel north on Hwy 285 to Pojoaque. Turn south at the NM-502 exit. Travel approximately 16 miles on State Hwy 502 until you reach the airport at 1040 Airport Rd.	0915 hours / 4-6-16	February 1, 2012
	Exit Time/Date 1230 hours / 4-6-16	Permit Expiration Date February 1, 2017

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)
Ms. Ramoncita Massey, USDOE Los Alamos Field Office (505) 622-8299
Mr. Timothy Moore, CTI and Associates, Inc. (248) 486-5100

Other Facility Data

SIC 1699

Name, Address of Responsible Official/Title/Phone and Fax Number
Mr. Douglas Hintze, EM Field Office Manager, USDOE
PO Box 1663, Los Alamos, NM 87545

Contacted
Yes [ ] No [*]

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

U	**Permit**	N	**Flow Measurement**	M	**Operations & Maintenance**	N	**CSO/SSO**
M	**Records/Reports**	N	**Self-Monitoring Program**	N	**Sludge Handling/Disposal**	N	**Pollution Prevention**
M	**Facility Site Review**	N	**Compliance Schedules**	N	**Pretreatment**	N	**Multimedia**
S	**Effluent/Receiving Waters**	N	**Laboratory**	M	**Storm Water**	N	**Other:**

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

1. **The inspector arrived on site at approximately 0915 hours on April 6, 2016, and made introductions, presented credentials and explained the purpose of the inspection to Mr. Timothy Moore, Safety Coordinator for CTI & Associates, Inc., the general contractor and entity overseeing the day to day activities at the site. Ms. Ramoncita Massey with the USDOE Los Alamos Field Office also joined the inspector and Mr. Moore on the inspection. An exit interview was conducted with Ms. Massey and Mr. Moore at approximately 1145 hours on April 6, 2016 at the site. The inspector also made contact with Mr. David Ploeger, Los Alamos County Airport Manager to explain the County's requirements with respect to permit coverage. Additional information was received from USDOE and CTI later on April 6, 2016 that has been incorporated into this inspection report.**
2. **Please see checklist for further information.**

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Sarah Holcomb ***/s/ Sarah Holcomb***	**505-827-2798**	**4-20-16**
Signature of Management QA Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**
Bruce Yurdin ***/s/ Bruce Yurdin***	**505-827-2795**	**4-20-16**

Industrial Storm Water Worksheet (Construction) – State of New Mexico

National Database Information		General	
Inspection Type	CEI	Inspector Name	Sarah Holcomb
NPDES ID Number	NMR12B955/NMU001914/NMU001915	Telephone	505-827-2798
Inspection Date	April 6, 2016	Entry Time	0915 hours
Inspector Type (circle one)	EPA [State] EPA Oversight	Exit Time	1230 hours
Facility Type (circle one)	Commercial / Residential / Municipal / [Industrial]	Signature	*/s/ Sarah Holcomb*

Facility Location Information				
Name/Location/Mailing Address	Los Alamos County Airport/Landfill Cover Construction Project, 1040 Airport Rd., Los Alamos, NM 87544			
Coordinates	Latitude	35° 52’ 54.45”	Longitude	-106° 16’ 31.21”
Receiving Waters	Pueblo Canyon, thence to Los Alamos Canyon, thence to the Rio Grande in segment 20.6.4.114 NMAC.			
Disturbed Area	6.5 acres	Start/Stop Dates	September 2015-September 2016	

Contact Information		
	Name(s)	Telephone
Name(s) and Role(s) of All Parties Meeting the Definition of Operator	USDOE – Owner Los Alamos County – Control over plans and specifications CTI and Associates, Inc. - Operator	
Facility Contact	Ms. Ramoncita Massey, USDOE Mr. Timothy Moore, CTI Mr. David Ploeger, Los Alamos Airport	505-665-7771 248-560-0703 505-662-8420
Authorized Official(s)	Mr. Douglas Hintze, EM Field Office Manager, USDOE Mr. Charlie Williams, VP Construction, CTI & Associates Mr. Harry Burgess, County Manager, Los Alamos County	505-665-5820 248-486-5100 505-663-1750

Site Information: *circle all that apply*							
Nature of Project	Residential	Commercial / [Industrial]	Roadway	Private	[Federal]	State / Municipal	Other
Construction Stage	Clearing / Grubbing	Rough Grading	[Infrastructure]	Building (Vertical)	[Final Grading]	Final Stabilization	

Basic Permit Information			Basic SWPPP Information		
Permit Coverage	[Y] CTI	[N] DOE, LAC	SWPPP Prepared & Available? *Part 7.1.1, 7.2.1*	[Y]	N
Permit Type	[General]	Individual	SWPPP Contents Satisfactory?	Y	[N]
Notice Posted (visible, font large, NPDES Permit tracking#, contact name & phone #) *Part 1.5*	Y	[N]	SWPPP Implementation Satisfactory?	Y	[N]
NOI Date	8-27-2015		SWPPP Date	7-30-2015	
Is NOI Satisfactory?	[Y]	N			

Industrial Storm Water Worksheet (Construction) – State of New Mexico

SWPPP Review *(can be completed in office)*			
General			**Notes:**
SWPPP Signed/Certified. Did all operators sign/certify the SWPPP? *Part 7.2.15, Appendix I.11*	Y	N	Charlie Williams, Project Manager for CTI signed on 10-2-2015. No delegation of authority was available for Mr. Williams. USDOE and Los Alamos County had not signed at the time of this inspection.
SWPPP completed prior to NOI? *Part 7.1.1, Part 1.2.1*	Y	N	
Endangered Species Act. Does SWPPP include documentation supporting determination? *Part 7.2.14.1; Part 1.1.e, Appendix D*	Y	N	
Historic Properties. Does SWPPP include documentation supporting determination? *Part 7.2.14.2, Appendix E*	Y	N	
If applicable, documents contact with agency or office responsible for implementing Safe Drinking Water Act <u>underground injection control well(s)</u>? *Part 7.2.14.3, 40 CFR Parts 144 -147*	Y	N	N/A
Post-Authorization Additions. Does SWPPP include: ➢ Copy of acknowledgement letter Y/N ➢ Copy of NOI Y/N ➢ Copy of permit Y/ N *Part 7.2.16.3*	Y	N	
If applicable, SWPPP describes compliance with any case-by-case basis USEPA imposed water quality-based effluent limitation requirements? *Part 3*	Y	N	N/A
If discharge to an impaired water, includes records of all data used to complete NOI: ➢ List of all impaired waters Y/N ➢ Pollutant(s) for which the surface water is impaired Y/N ➢ Whether a TMDL has been approved or established Y/N *Part 3.2.1, Appendix I.15*	Y	N	
Required SWPPP modifications completed? ➢ Completed w/7 days Y/N ➢ Maintains modification records showing dates, name of person authorizing change and summary Y/N ➢ Signed/Certified Y/N ➢ Immediately notified other operators Y/N *Parts 7.4, 5.2.2, Appendix I.11.b*	Y	N	N/A
Records Retention. Have copies of inspection reports/all other documentation been retained as part of the SWPPP for 3 years from date permit coverage expires or is terminated? *Parts 4.1.7, 5.4.4, Appendix I.10.2, I.15*	Y	N	

Industrial Storm Water Worksheet (Construction) – State of New Mexico

Team & Activity Description			Notes:
Identifies stormwater team personnel and responsibilities? ➢ Personnel (by name or position) Y/N ➢ Individual responsibilities Y/N *Part 7.2.1*	Y	N	
Is staff training documented? ➢ Training occurs prior to the commencement of earth-disturbing activities or pollutant-generating activities, whichever occurs first Y/N ➢ Ensures following understand the requirements of this permit and their specific responsibilities: o Personnel responsible for the design, installation, maintenance, and/or repair of controls/measures Y/N o Personnel responsible for the application and storage of treatment chemicals Y/N o Personnel responsible for conducting inspections Y/N o Personnel responsible for taking corrective actions Y/N ➢ At a minimum, training includes: o Location of all stormwater controls on the site required by this permit, and how maintained Y/N o Proper procedures to follow with respect to the permit's pollution prevention requirements Y/N o When and how to conduct inspections, record applicable findings, and take corrective actions Y/N *Parts 7.2.13, 6 and permit notes for emergency-related construction activities*	Y	N	
Describes nature of construction activities? ➢ Size of the property Y/N ➢ Total area to be disturbed Y/N ➢ Construction support activity areas Y/N ➢ Maximum area to be disturbed at any one time Y/N *Part 7.2.2*	Y	N	
If applicable, documents emergency-related projects? ➢ Cause of public emergency (e.g., natural disaster, extreme flooding conditions, etc.) Y/N ➢ Info substantiating occurrence (e.g., state disaster declaration or similar state or local declaration) Y/N ➢ Description of the construction necessary to reestablish effected public services Y/N *Parts 7.2.3, 1.2*	Y	N	N/A

Identifies (lists) other site operators and areas of site over which each has control? ➢ List and areas of site over which each has control Y/N *Part 7.2.4*	Y	N	Los Alamos County is not listed as a responsible party.
Describes sequence, estimated dates (departures) and duration of construction activities? ➢ Installation of control measures when operational Y/N ➢ Commencement/duration clearing & grubbing, mass grading, site preparation (excavating, cutting & filling), final grading, and creation of soil & vegetation stockpiles Y/N ➢ Cessation, temporarily or permanently, of construction activities on the site, or in designated portions of site Y/N ➢ Final/temporary stabilization areas of exposed soil Y/N ➢ Removal of temporary stormwater conveyances/channels and other stormwater control measures Y/N ➢ Removal of construction equipment and vehicles Y/N *Part 7.2.5*	Y	N	
Site Map			**Notes:**
Includes legible site map(s)? *Part 7.2.6*	Y	N	
➢ Boundaries of the property Y/N ➢ Locations construction activities will occur Y/N ➢ Locations earth-disturbing activities will occur (note any phasing) Y/N ➢ Approximate slopes before and after major grading (note steep slopes) Y/N ➢ Locations sediment, soil, or materials will be stockpiled Y/N ➢ Locations of crossings of surface waters Y/N ➢ Designated points vehicles exit onto paved roads Y/N ➢ Locations of structures/impervious surfaces upon completion Y/N ➢ Locations of construction support activity areas Y/N *Part 7.2.6.1*	Y	N	
➢ Locations of surface waters/wetlands, within or in immediate vicinity Y/N ➢ Indicates waters listed as impaired, and Tier 2~~, Tier 2.5,~~ or Tier 3 Y/N *Part 7.2.6.2*	Y	N	
➢ Boundary lines of natural buffers *Parts 7.2.6.3, 2.1.2.1a*	Y	N	SWPPP states that buffers aren't needed because canyon downslopes are more than 50 feet.
➢ Areas of federally-listed critical habitat for	Y	N	N/A

endangered or threatened species *Part 7.2.6.4*			
➢ Topography Y/N ➢ Existing vegetative cover Y/N ➢ Drainage pattern of stormwater/authorized non-stormwater flow onto, over, and from site <u>before and after</u> major grading Y/N *Part 7.2.6.5*	Y	N	
➢ Stormwater and allowable non-stormwater discharge locations Y/N/NA ➢ Locations of storm drain inlets on site and immediate vicinity Y/N ➢ Locations stormwater or allowable non-stormwater will be discharged to surface waters (including wetlands) on or near site Y/N *Part 7.2.6.6*	Y	N	
➢ Locations of potential pollutant-generating activities *Part 7.2.6.7, Part 7.2.7*	Y	N	
➢ Locations of control measures *Part 7.2.6.8*	Y	N	
➢ Locations polymers, flocculants, or treatment chemicals will be used/stored *Part 7.2.6.9*	Y	N	N/A
Construction Site Pollutants			**Notes:**
Includes pollutant-generating activities list and description? *Part 7.2.7.1*	Y	N	
Includes inventory of pollutants or constituents? ➢ Inventory Y/N ➢ Potential spills/leaks Y/N ➢ Departures from manufacturer's specifications for applying fertilizers containing nitrogen & phosphorus Y/N *Parts 7.2.7.2, 2.3.5.1*	Y	N	Fertilizer, hydraulic fuel/oil, gas, diesel, and antifreeze are all listed as potential pollutants on site.
Identifies all sources of allowable non-stormwater discharges? *Parts 7.2.8, 1.3.d*	Y	N	
If required (surface water wi/50 feet of earth disturbance), documents and describes <u>buffer compliance alternative</u> selected? ➢ Ensures that all discharges from the area of earth disturbance to the natural buffer are first treated by the site's erosion and sediment controls Y/N/NA ➢ Uses velocity dissipation devices, if necessary Y/N/NA ➢ Documents natural buffer width Y/N/NA ➢ Delineates, and clearly marks off, with flags, tape, or other similar marking device all natural buffer areas Y/N/NA ➢ Documents erosion and sediment control(s) used to achieve an equivalent sediment	Y	N	SWPPP states that the canyon downslopes are more than 50 feet away from the receiving water and therefore buffers are not needed. The permittee maintains a berm around the perimeter of the site, which was interrupted at the time of this inspection. The southeast corner of the site did not have a berm present but the contractor reported to the inspector that other measures were installed on 4-8-2016. Please see Appendix A of this report for documentation.

reduction Y/N/NA ➢ Documents any information relied upon to demonstrate equivalency Y/N/NA *Parts 7.2.9, 2.1.2, Appendix G*			
As applicable, describes and documents <u>buffer exceptions</u>? ➢ Describes rationale/why infeasible to provide and maintain an undisturbed natural buffer of any size Y/N/NA ➢ For linear project, describes buffer width retained and supplemental controls installed Y/N/NA ➢ Small residential lot options Y/N/NA ➢ Documents CWA Section 404 Permit, water-dependent structure/access disturbances Y/N *Parts 7.2.9; 2.1.2.1e, Appendix G*	Y	N	N/A
All Stormwater Control Measures			**Notes:**
Describes each measure? ➢ Type of measure to be installed and maintained, including design information Y/N ➢ Specific sediment controls installed and made operational prior to conducting earth-disturbing activities Y/N ➢ For exit points, stabilization techniques and any additional controls planned to remove sediment prior to vehicle exit Y/N ➢ For linear projects (if applicable), where/why it has been determined that the use of perimeter controls is practicable Y/N *Part 7.2.10.1*	Y	N	
Erosion and Sediment Controls			**Notes:**
Minimizes <u>area of disturbance</u>? *Part 2.1.1.1*	Y	N	Construction is occurring in phases.
Describes erosion and sediment control <u>design</u> requirements? ➢ Accounts for expected amount, frequency, intensity, duration of precipitation Y/N ➢ Accounts for nature of run-on and run-off (channelized peak flow rates & total volume at outlet) Y/N ➢ Accounts for range of soil particle sizes (distribution, erosivity and cohesiveness) Y/N ➢ Directs discharge to vegetated areas to increase sediment removal and infiltration unless infeasible Y/N/NA ➢ Uses velocity dissipation, if necessary Y/N ➢ Complies with State of New Mexico except Indian country requirements: o Includes site-specific BMPs/controls designed to prevent to the maximum extent practicable an increase in sediment yield/flow velocity from pre-construction, pre-development conditions both during and after	Y	N	The permittee performed RUSLE2 analysis to choose appropriate BMPs for the site. The pre-construction analysis showed a sediment delivery rate of 0.42 t/ac/yr. During construction without BMPs installed was estimated at 0.93 t/ac/yr. With silt fence/barrier installed, the rate decreased to 0.053 t/ac/yr, and post construction with stabilization decreased the rate further to 0.00011 t/ac/yr.

construction Y/N o Selection based on appropriate soil loss prediction models (results in sediment yields/flow velocities, that to the maximum extent practicable, will not be greater than the sediment yield levels and flow velocities from pre-construction, pre-development conditions) Y/N *Parts 2.1.1.2, 9.4.1.1*			
Describes erosion and sediment control <u>installation</u> requirements? ➢ Completes installation of downgradient stormwater/sediment controls by the time or immediately following earth-disturbance begins unless infeasible Y/N/NA ➢ Installs all other controls and makes operational as soon as conditions allow Y/N ➢ Uses good engineering practices and follows manufacturer's specifications or explain departures Y/N *Part 2.1.1.3*	Y	N	
Describes erosion and sediment control <u>maintenance</u> requirements? ➢ Initiates fix immediately and completed by close of next work day (routine maintenance) Y/N ➢ Installs new measure/significant repair no later than 7 calendar days or document why infeasible Y/N *Part 2.1.1.4*	Y	N	
Installs <u>perimeter controls</u> and describes maintenance (removes sediment before it has accumulated to 1/2 of the above-ground height)? *Part 2.1.2.2*	Y	N	
Minimizes <u>sediment track-out</u>? ➢ Restricts vehicle use to properly designated exit points? Y/N ➢ Uses appropriate stabilization techniques at all points that exit onto paved roads? Y/N ➢ Where necessary, uses additional measures to remove sediment prior to exit? Y/N/NA ➢ Removes tracked out sediment prior to the end of the same work day or if occurs on non-work day the next work day? Y/N *Part 2.1.2.3*	Y	N	This was not addressed in the SWPPP. Disturbed area directly abuts the paved airport runway area and sweeping is done twice per day. This is not a typical construction site with a narrow entrance, and it would be difficult to maintain a rocked entrance BMP, which is why emphasis is made on sweeping frequently.
Controls discharges from <u>stockpiled sediment or soil</u>? ➢ Locates piles outside of buffers Y/N ➢ Locates piles separate from stormwater controls Y/N ➢ Uses temporary sediment barrier Y/N ➢ Where practicable, provides cover or	Y	N	N/A

temporary stabilization Y/N ➢ Does not hose down or sweep into stormwater conveyance unless connected to basin, trap, etc. Y/N ➢ Contains and securely protects pile from wind? Y/N *Part 2.1.2.4*			
Minimizes <u>dust</u>? *Part 2.1.2.5*	Y	N	Due to the nature of construction (landfill) water is used for dust control as much as possible.
Minimizes disturbance of <u>steep slopes</u>? *Part 2.1.2.6*	Y	N	N/A
Preserves <u>topsoil</u>, unless infeasible? *Part 2.1.2.7*	Y	N	N/A
Minimizes <u>soil compaction</u> where final vegetative stabilization or infiltration installed? *Part 2.1.2.8*	Y	N	N/A
Protects <u>storm drain inlets</u> and describes maintenance requirements (removes sediment by the end of the same work day or end of the following work day)? *Part 2.1.2.9*	Y	N	
Describes <u>constructed conveyance channel</u> controls (if installed)? *Part 2.1.3.1*	Y	N	N/A
Describes <u>sediment basin</u> design (if installed) and maintenance (maintain at least ½ of capacity at all times)? *Part 2.1.3.2*	Y	N	N/A
Describes <u>treatment chemical</u> controls (if used)? *Part 2.1.3.3*	Y	N	N/A
Includes documentation for use of <u>treatment chemicals</u> (polymers, flocculants, or other treatment chemicals)? ➢ Lists all soil types expected to be exposed and locations where chemicals will be applied. Also include a list of soil types expected to be found in fill material to be used in same areas Y/N ➢ Lists all treatment chemicals and why the selection of these chemicals is suited to the soil characteristics Y/N ➢ If authorized by EPA to use cationic treatment chemicals, includes the specific controls and implementation procedures designed to ensure use of cationic treatment chemicals will not lead to a violation of water quality standards Y/N/NA ➢ Dosage/methodology to determine dosage Y/N ➢ Information from any applicable MSDS Y/N ➢ Schematic drawings of any chemically-enhanced or chemical treatment systems Y/N/NA ➢ Description of how chemicals will be stored	Y	N	N/A

Y/N ➢ References to applicable state or local requirements and copies of applicable manufacturer's specifications Y/N ➢ Description of training that personnel have received or will receive Y/N *Parts 7.2.10.2, 2.1.3.3h*			
Describes <u>dewatering</u> controls (if installed)? *Part 2.1.3.4*	Y	N	N/A
Stabilization Requirements			**Notes:**
Describes compliance with deadlines for vegetative and/or non-vegetative stabilization practices, including exceptions? <u>Deadline to Initiate</u> ➢ Initiates stabilization immediately (no later than end of next work day following earth-disturbing activities permanently/temporarily ceased) Y/N <u>Deadline to Complete</u> ➢ As soon as practicable, but no later 14 calendar days after initiation, completes stabilization (for vegetative, all activities to initially seed or plant, and/or for non-vegetative, installation or application) Y/N ➢ In arid, semi-arid or drought-stricken areas for permanent stabilization, immediately initiates, and within 14 calendar days completes non-vegetative stabilization measures to prevent erosion; and as soon as practicable completes all activities necessary to initially seed or plant; and documents beginning/ending dates of the seasonally dry period, site conditions, and schedule Y/N/NA ➢ Documents/describes circumstances beyond control that prevent meeting deadlines Y/N/NA ➢ If discharging to sediment or nutrient-impaired waters or Tier 2~~, 2.5~~ or 3 waters, completes stabilization (vegetative or non-vegetative) wi/7 calendar days after temporary or permanent cessation Y/N/NA *Parts 7.2.10.3, 2.2.1, 3, 9.4.1.3*	Y	N	SWPPP states 70% of the site needs to be stabilized, however, the permit requires that 100% of the site needs to be stabilized to 70% of the previous natural vegetative cover.
Describes compliance with vegetative (final) stabilization criteria? ➢ Provides uniform vegetation (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for all unpaved areas / areas not covered by permanent structures Y/N ➢ Immediately after seeding or planting the area to be vegetatively stabilized, to the extent necessary to prevent erosion on the seeded or planted area, select, design, and	Y	N	

install non-vegetative erosion controls that provide cover while vegetation is becoming established Y/N *Parts 7.2.10.3, 2.2.2.a, 3, 9.4.1.4*			
If applicable, describes compliance with State of New Mexico, except Indian country, arid, semi-arid areas, or drought stricken option for final stabilization: ➢ Area seeded/planted must wi/3 yrs provides established vegetation that achieves 70% of the native background vegetative cover Y/N ➢ Selects, designs, and installs non-vegetative erosion controls that provide cover for at least 3 years without active maintenance Y/N ➢ Complies with notification, inspection maintenance, and reporting) Y/N *Parts 7.2.10.3, 2.2.2.b, 3, 9.4.1.5*	Y	N	
If using, provides effective non-vegetative cover to stabilize? *Parts 7.2.10.3, 2.2.2.2*	Y	N	N/A
Pollution Prevention Procedures			**Notes:**
Describes procedures for <u>spill prevention and response</u>? *Parts 7.2.11.1, 2.3.4*	Y	N	
Describes procedures for <u>waste management</u>? *Part 7.2.11.2, 2.3.3.3*	Y	N	
Eliminates prohibited discharges? ➢ Concrete washout, unless managed by control in Part 2.3.3.4 Y/N ➢ Washout/cleanout of stucco, paint, form release oils, curing compounds and other materials unless managed by control in Part 2.3.3.4 Y/N ➢ Fuels, oils or other from vehicle and equipment O&M Y/N ➢ Soaps, solvents, or detergents used in vehicle and equipment washing Y/N ➢ Toxic or hazardous substances from spill/release Y/N *Part 2.3.1*	Y	N	
Properly maintains and protects all pollution prevention controls? *Part 2.3.2*	Y	N	
Complies with pollution prevention standards for certain activities? ➢ Fueling/maintenance of equipment or vehicles Y/N/NA ➢ Washing of equipment and vehicles Y/N/NA ➢ Storage, handling, disposal of materials, products and waste Y/N/NA ➢ Washing applicators/containers Y/N/NA *Part 2.3.3*	Y	N	
Minimizes discharge/complies with restrictions of <u>fertilizer application</u>? *Part 2.3.5*	Y	N	N/A

Inspections and Corrective Action			
SWPPP describes procedures for <u>inspection, maintenance, and corrective action</u>? ➢ Personnel conducting inspections Y/N ➢ Inspection schedule Y/N ➢ Reduction of inspection frequency Y/N/NA. As applicable: o location of the rain gauge or the address of weather station to obtain rainfall data Y/N/NA o beginning and ending dates of the seasonally-defined arid period for your area or the valid period of drought Y/N/NA o beginning and ending dates of frozen conditions Y/N/NA ➢ Inspection or maintenance checklists or other forms that will be used Y/N *Parts 7.2.12*	Y	N	SWPPP only described post landfill closure inspections, but no ongoing regular CGP-required inspections. No CGP inspections were documented in the SWPPP.
Inspections			**Notes:**
Inspections performed by "qualified" person? *Part 4.1.1*	Y	N	No CGP inspections were documented.
Conducts inspections at a minimum of required frequency unless reductions documented? ➢ Every 7 days <u>or</u> 14 days & w/in 24 hrs of a 0.25" rain event Y/N *Part 4.1.2*	Y	N	No CGP inspections were documented.
If applicable, conducts increased inspection frequency for sites with discharges to sediment or nutrient-impaired waters or Tier 2~~, 2.5~~ or 3 waters: ➢ Once every 7 days Y/N; <u>and</u> ➢ Within 24 hrs of a ≥ 0.25" rain event Y/N? *Parts 4.1.3, 3.3.2.1, 3.3.2*	Y	N	No CGP inspections were documented.
If allowable (begin/end dates recorded), documents reduced inspection frequency? ➢ Stabilized area - 1/mo in areas where stabilization has been completed Y/N/NA ➢ For arid/semi arid during seasonally dry period or drought-stricken areas - 1/mo and wi/24 hrs of the occurrence of a storm event ≥ 0.25" Y/N/NA ➢ For frozen conditions (runoff unlikely, disturbance suspended, areas stabilized) - suspends until thawing conditions Y/N/NA *Part 4.1.4.1 thru 3*	Y	N	No CGP inspections were documented.
Inspection areas includes: ➢ All cleared, graded, excavated, and not completed stabilization Y/N ➢ All controls/measures Y/N ➢ Material/waste/borrow/equipment storage and maintenance areas Y/N ➢ All areas stormwater typically flows Y/N	Y	N	No CGP inspections were documented.

➢ All points of discharge Y/N ➢ All locations stabilization implemented Y/N/NA *Part 4.1.5*			
Inspection includes minimum requirements? ➢ Controls installed/operational Y/N ➢ Determines need to replace, repair, or maintain Y/N ➢ Conditions that could lead to spills, leaks, and accumulations of pollutants Y/N ➢ Identifies where new or modified controls are necessary Y/N ➢ At points of discharge, checks for visible erosion/sedimentation on banks Y/N/NA ➢ Identifies noncompliance Y/N ➢ If discharge is occurring: o Identifies all points of discharge Y/N o Observes/documents visual quality, including color, odor, floating, settled, or suspended solids, foam, oil sheen, and other of pollutants Y/N o Documents whether controls operating effectively, and describes controls not operating as intended or need maintenance Y/N ➢ Based on results of inspection, initiates corrective action under Part 5. *Part 4.1.6*	Y	N	No CGP inspections were documented.
Inspection reports: ➢ Completed within 24 hrs Y/N ➢ Includes inspection date Y/N ➢ Includes names/titles of personnel Y/N ➢ Includes summary of findings Y/N ➢ Includes applicable rain gauge reading Y/N/NA ➢ Signed and certified in accordance with Appendix I.11 Y/N *Part 4.1.7.1 and 2*	Y	N	No CGP inspections were documented.

Industrial Storm Water Worksheet (Construction) – State of New Mexico

Corrective Action			Notes:
Corrective action initiated immediately; and permanent solution completed no later than 7 calendar days from the time of discovery or if infeasible as soon as practicable? *Part 5*	Y	N	No corrective actions were documented.
Within 24 hours of discovering the occurrence, completes a report of the following: ➢ Condition identified Y/N ➢ Nature of the condition identified Y/N ➢ Date and time of the condition identified and how it was identified Y/N *Part 5.4*	Y	N	No corrective actions were documented.
Within 7 calendar days of discovering the occurrence, completes a report of the following: ➢ Follow-up actions taken to review the design, installation, and maintenance of stormwater controls, including the dates such actions occurred Y/N ➢ Summary of stormwater control modifications taken or to be taken Y/N ➢ Schedule of activities necessary to implement changes Y/N ➢ Date the modifications are completed or expected to be completed Y/N ➢ Notice of whether SWPPP modifications are required as a result of the condition identified or corrective action Y/N ➢ Signed and certified in accordance with Appendix I.11 Y/N *Parts 5.4.2, 5.4.3*	Y	N	No corrective actions were documented.

Additional Notes on SWPPP Review *(optional)*
This inspection was prompted by the receipt of a citizen complaint to the NMED Air Quality Bureau, which was then forwarded to the Surface Water Quality Bureau on April 1, 2016. The complainant was concerned about the nature of construction and dust generation from the site. This project concerns the removal and replacement of the cover at the TA-73 landfill facility. Due to subsidence of the previous impermeable cap, water was seeping into the landfill. With the approval of the NMED Hazardous Waste Bureau, construction began in September 2015 to remove and replace the old, damaged cover. Plans are to stabilize the landfill by using a vegetative cover. The landfill was used by the Los Alamos National Laboratory until the 1960s for office trash, according to the permittee's representative, and was then used by Los Alamos County as a municipal landfill after that. According to the permittee's representative, most trash uncovered was just municipal waste and office types of trash, but a transformer or capacitor was recovered from the landfill and Clean Harbors was contracted to remove the capacitor and test for the presence of PCBs. At the time of this inspection, the permittees had not received confirmation on whether the transformer/capacitor contained PCBs. Dust control, according to the permittee's representative, occurs at the site, but due to the nature of construction, only a certain amount of water can be applied in order to obtain the correct compaction requirements for final specifications. Construction is being phased (one cell is opened up/uncovered at a time). Trash (mainly paper) from the landfill had blown outside the perimeter of construction and down the side of the hill toward the sampler for P-SMA-1 under the Los Alamos National Laboratory's Individual Stormwater Permit. The papers observed consisted of old newspapers, and some laboratory documents. According to Appendix A, the permittee picked up the windblown trash and redeposited this material into the landfill. Required inspections under the CGP had not been documented at the time of this inspection. Inspections should be performed <u>either</u> every two weeks and within 24 hours of a 0.25" rain event <u>or</u> every 7 days. Permittees submitted additional information after the date of this inspection, as follows (and as included as Appendix C to this report): • (April 6, 2016) Documentation to confirm that a copy of the CGP was onsite, a copy of the updated NOI and acknowledgement from EPA has been printed and kept with the SWPPP, and contact information and CGP permit number has been posted in a publicly available location for the site. • (April 6, 2016) Photo-documentation of berms installed during construction cessation from January 5 to March 7, 2016. • (April 7, 2016) Revised SWPPP with corrections. • (April 12, 2016) CTI installation of straw wattles at the southeast corner of the site and removal of waste from the eastern slope of the landfill. • (April 18, 2016) CTI sent documentation of "qualified personnel" to conduct the routine inspections and also sent documentation of the first routine inspection performed on April 14, 2016.

Implementation *(complete in field)* *(Narrative Description if Control Measures Installed, Operational, Effective and Maintained)*	
Erosion and Sediment Control Practices *Part 2.1*	
Minimize area of disturbance:	*(Provide brief description)* Construction phasing involves only opening one cell of the landfill at a time for cover replacement.
Buffer compliance:	*(e.g., provide and maintain a 50-foot undisturbed natural buffer)* SWPPP states that buffers are not required due to the perimeter berm in place and that the downslopes of the canyon are more than 50 feet away from the receiving waterbody.
Perimeter controls:	*(e.g., filter berms, silt fences, temporary diversion dikes)* The silt fence in place around the perimeter appeared to be in good shape except for the southeast corner where the perimeter was even with the construction activity. The permittee's representative indicated that another measure would be installed at the corner to alleviate any runoff concerns.
Exit point or sediment track out:	*(e.g, aggregate stone with an underlying geotextile or non-woven filter fabric, or turf mats, wheel washing, rumble strips, plates, sweeping)* There is no narrow or discrete entrance to the construction area. To access the site, contractors must travel through the airport taxiways, and then travel to the open cells. Sweeping is conducted twice per day in lieu of a physical trackout BMP.
Stockpiled sediment or soil:	*(e.g., berms, dikes, fiber rolls, silt fences, sandbag, gravel bags)* N/A
Minimize dust:	*(e.g., application of water or other dust suppression techniques)* Water for dust control is applied sparingly due to the need to meet compaction specifications.
Steep slopes:	*(e.g., standard erosion and sediment control practices, phasing disturbances, stabilization practices)* N/A
Preserve topsoil:	*(e.g., stockpiling or transfer of topsoil to other locations)* N/A
Soil compaction:	*(e.g., restrict vehicle / equipment use, soil conditioning techniques)* Specific soil compaction specifications must be met for the landfill requirements.
Storm drain inlet protection:	*(e.g., fabric filters, sandbags, concrete blocks, gravel barriers)* Inlet protection was present around the inlet to the north of the open cell at the time of this inspection.
Conveyance channels:	*(e.g., erosion controls, and velocity dissipation check dams, sediment traps, riprap, or grouted riprap at outlets)* N/A
Sediment basin:	*(e.g., outlet structures that withdraw from the surface, stabilization, erosion controls, velocity dissipation, kept at least ½ design capacity)* N/A

Erosion and Sediment Control Practices - Continued	
Treatment chemicals:	*(e.g., spill berms, decks, spill containment pallets, storing chemicals in covered area, spill kit available on site)* N/A
Dewatering:	*(e.g., sediment basins or sediment traps, sediment socks, dewatering tanks, tube settlers, weir tanks, or filtration systems (e.g., bag or sand filters) designed to remove sediment)* N/A
Other erosion and sediment controls or practices:	*(Provide brief description)* No other erosion/sediment control practices were in place other than the berm and silt fence on the day of this inspection.
Stabilization Practices *Part 2.2*	
Stabilization:	*(e.g., soil conditioning, application of seed or sod, planting of seedlings or other vegetation, application of fertilizer, watering, mulch, rolled erosion control products, control blankets, riprap, gabions, geotextiles)* Landfill cover, which will be vegetative, will be installed at the end of this project. Specifications were not included in the SWPPP.
Are stabilization measures initiated immediately? **Y/N Are they completed within 14 days of construction cessation**? **Y/N**	*(e.g. indicate "yes" or "no"; if not within 14 days of construction cessation, how long without stabilization measures?)* Construction ceased during the winter months from January 5, 2016 and began again on March 7, 2016. The permittees bermed the site prior to stopping construction, but did not apply a temporary stabilization measure other than that. Photos of the berm were provided to the inspector on April 6, 2016 and are included as Appendix B to this inspection report.
Pollution Prevention Measures *Part 2.3*	
Fueling and maintenance of vehicles:	*(e.g., locating activities away from surface waters and stormwater inlets or conveyances, providing secondary containment (e.g., spill berms, decks, spill containment pallets)and cover where appropriate, and/or having spill kits readily available)* Mobile fueling units are used onsite and spill kits/absorbents are available as needed.
Washing equipment & vehicles:	*(e.g., locating activities away from surface waters, stormwater, inlets, conveyances, sediment basin or sediment trap, using filtration devices, such as filter bags or sand filters, plastic sheeting, temporary roofs)* N/A
Washing applicators/containers (e.g., stucco, paint, concrete, form release oils, curing compounds, and other construction materials)	*(e.g., leak-proof container or pit, locate as far away as possible from surface waters, inlets or conveyances, designate areas)* N/A
Pollution Prevention Measures – Continued	
Storage, handling, disposal of construction materials, products and waste:	*Building products (e.g., asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures):* N/A
	Pesticides, herbicides, insecticides, fertilizers, and landscape materials: N/A

	Diesel fuel, oil, hydraulic fluids, other petroleum products, and other chemicals: Secondary containment was present for the fuel stored onsite.
	Hazardous or toxic waste (e.g, paints, solvents, petroleum-based products, wood preservatives, additives, curing compounds, acids): N/A
	Construction and domestic waste (e.g., packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials): N/A
	Sanitary waste: Port-o-lets were present and staked down.
Fertilizer application:	*(e.g., avoids applying before heavy rains, never applies to frozen ground, never applies to conveyance channels with flowing water)* N/A
Miscellaneous	
Evidence of not allowable non-storm water discharges or prohibited discharge?	*(Provide brief description and determine whether any non-storm water discharges allowable)* No non-allowable non-stormwater discharges were observed at the time of this inspection.
Evidence of sediment deposition to surface waters or MS4?	*(e.g. significant turbidity observed in a receiving water body)* No evidence of sediment deposition to a surface water was observed at the time of this inspection.

Appendix A

NMED/SWQB

Official Photograph Log
Photo # 1

Photographer: Sarah Holcomb	Date: 4-6-2016	Time: 0945 hours *
City/County: Los Alamos, New Mexico		
Location: Los Alamos Airport/Landfill Cover Replacement		
Subject: Windblown trash observed from the landfill.		

* Camera was not adjusted for daylight savings time.

NMED/SWQB

Official Photograph Log
Photo # 2

Photographer: Sarah Holcomb	Date: 4-6-2016	Time: 1005 hours *
City/County: Los Alamos, New Mexico		
Location: Los Alamos Airport/Landfill Cover Replacement		
Subject: Berm missing from southeast corner of the project. Canyon downslope is just on the other side of the silt fence.		

* Camera was not adjusted for daylight savings time.

Appendix B

Appendix C

From:	Timothy A. Moore, Jr.
To:	Holcomb, Sarah, NMENV
Cc:	Ramoncita.Massey@nnsa.doe.gov; John Kerschner; Clint Bagwell; Charlie Williams; Paul R. Haas Jr.; Michael Spradling
Subject:	CTI - Los Alamos - Correction Actions
Date:	Monday, April 18, 2016 9:34:16 AM
Attachments:	Env Inspection - 2016-04-14.pdf CISEC - Module 4 Description.pdf CISEC - Module 4.pdf

---

Sarah,

Please see the attached certificate of completion and a description of the web training class CISEC Module 4: Conducting Construction Site Inspections from the International Erosion Control Association (IECA) and also an example of a regular storm water inspection report performed on the site.

We've moved! Effective 1/1/16, our new addresses are as follows:
Headquarters/Remit to: 28001 Cabot Drive, Ste. 250, Novi, MI 48377
Laboratory: 27280 Haggerty Road, Ste. C20, Farmington Hills, MI 48331

Timothy A. Moore, Jr., P.E.
Project Engineer

CTI and Associates, Inc.
28001 Cabot Drive, Ste. 250, Novi, MI 48377
248.560.0703 ***Direct*** | 734.751.8376 ***Mobile***
1.800.CTI.TODAY | 248.486.5050 ***Fax***

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From:	Timothy A. Moore, Jr.
To:	Holcomb, Sarah, NMENV
Cc:	Clint Bagwell; Ramoncita.Massey@nnsa.doe.gov; Charlie Williams; Michael Spradling; John Kerschner
Subject:	CTI - Los Alamos County Airport Project
Date:	Tuesday, April 12, 2016 1:41:41 PM
Attachments:	SWPPP_CorrectiveActionPhotoLog - 2016-04-12.docx

---

Sarah,

I am following up on my corrective action email from last week. CTI has completed installation of straw wattles at the northeast corner of the site and have removed waste from the eastern slope of the landfill. Cleanup will continue on the northern slope of the landfill. I will send documentation after completion of this task, and the remaining outstanding items, including inspection reports.

Please see the attached photo log.

Let me know if you have any questions.

Thank you,

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From: Massey, Ramoncita N.
To: Holcomb, Sarah, NMENV
Cc: Briley, Siona, NMENV
Subject: FW: LA Landfill Condition Monday Feb. 29, 2016
Date: Wednesday, April 6, 2016 3:57:45 PM

Sarah,
I found some picture I took at the site on February 29, 2016 just to give the contractor a look at thinks. I removed the pictures showing the wet shovel of dirt. As you can see we had three berms two around the excavation and on the north side of the landfill. I provided another picture showing the depth of the landfill prior to putting in the lifts. This picture should give the idea that any storm event or snow would not leave the site. It was kind of a bowl. I am off tomorrow and Friday so I will email again on Monday. Thanks for your help and I am still looking for the EPA email.
Ramoncita

-----Original Message-----
From: Massey, Ramoncita N.
Sent: Monday, February 29, 2016 4:42 PM
To: Charlie Williams <cwilliams@cticompanies.com>
Cc: Lockhart, Christopher <Christopher.Lockhart@em.doe.gov>; John Kerschner <jkerschner@cticompanies.com>; Timothy A. Moore, Jr. <tmoore@cticompanies.com>; 'Clint Bagwell' <cbagwell@cticompanies.com>; Michael Spradling <mspradling@cticompanies.com>; Krantz, Douglas J (CONTR) <Douglas.Krantz@EM.DOE.Gov>; 'Stephen Dwyer, PhD, PE' <dwyerengineering@yahoo.com>; Walker, Kathy (CONTR) <Kathy.Walker@EM.Doe.Gov>
Subject: LA Landfill Condition Monday Feb. 29, 2016

Guys,
Pictures from today. The site is much dryer today but if you put a shovel to the landfill you get wet soil beneath it at every location. Some of the wet soil is very wet (east end) and some of it is slightly wet. Just thought you would like to know conditions.
Ramoncita

From:	Timothy A. Moore, Jr.
To:	Holcomb, Sarah, NMENV
Cc:	Ramoncita.Massey@nnsa.doe.gov; Clint Bagwell
Subject:	Los Alamos County Airport Storm Water Inspection
Date:	Wednesday, April 6, 2016 3:21:57 PM
Attachments:	image001.png NOI Revised February.pdf EPA NOI Acknowledgment Letter.pdf

---

Sarah,

Per our conversation today I have attached documentation for the following corrective actions completed today:

1. A copy of the EPA NPDES Construction General Permit has been printed and is available in the office trailer.
2. A copy of our updated NOI has been printed and attached to the SWPPP in the office trailer.
3. A copy of our NOI acknowledgement from the EPA has been printed and attached to the SWPPP in the office trailer.
4. CTI management contact numbers and the EPA CGP Permit number have been posted on the door to the office trailer.

The requested changes to the site map, training documentation, and the above mentioned documents are currently being added to the SWPPP, which will get resubmitted to DOE this week (hopefully tomorrow).

Straw wattles will be installed along the northeast side of the landfill tomorrow. I will send pictures tomorrow after installation.

A storm water inspection will be completed tomorrow, and at the specified intervals/events in the future.

Paper waste clean-up on the north and east slopes is scheduled for this week.

Our project engineer Clint Bagwell contacted you today with some questions about training requirements. His contact info is as follows:

Clint Bagwell, P.E.
Sr. Project Engineer
352.250.2166 ***Direct*** | 352.250.2166 ***Mobile***

Thank you,

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Timothy A. Moore,

Laboratory: 27280 Haggerty Road, Ste. C20, Farmington Hills, MI 48331

Jr., P.E.
Project Engineer

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From: Clint Bagwell
To: Holcomb, Sarah, NMENV
Cc: Ramoncita.Massey@nnsa.doe.gov; Timothy A. Moore, Jr.; Michael Spradling; Charlie Williams; John Kerschner
Subject: RE: Los Alamos County Airport Storm Water Inspection
Date: Thursday, April 7, 2016 12:07:13 PM
Attachments: image001.png

Sarah,

Thanks again for the phone call today. As we discussed, I am sending the revised SWPPP. Changes are tracked in the revision log at the front of the document. Please let me know if you have any questions or further comments.

The file rather large so I set up a retrieval link here: https://files.cticompanies.com/dl/igzQSgcTSy

I have also copied Ramoncita Massey on this email. I understand that the DOE and Los Alamos County will be adding a signature page upon their review. I will make sure that these signature pages are incorporated into revisions moving forward.

I will continue to look into inspector training based on our conversation, and will keep you updated as soon as we have the issue resolved.

Thanks!

Clint Bagwell

Clint Bagwell, P.E.
Sr. Project Engineer
352.250.2166 ***Direct*** | 352.250.2166 ***Mobile***

From: Timothy A. Moore, Jr.
Sent: Wednesday, April 06, 2016 5:22 PM
To: sarah.holcomb@state.nm.us
Cc: Ramoncita.Massey@nnsa.doe.gov; Clint Bagwell <cbagwell@cticompanies.com>
Subject: Los Alamos County Airport Storm Water Inspection

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