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*Surface Water Quality Bureau*

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DAVE MARTIN  
Secretary

BUTCH TONGATE  
Deputy Secretary

JAMES H. DAVIS, Ph.D.  
Director  
Resource Protection Division

December 13, 2012

Shad James, Executive Vice President, Albuquerque Operations  
Jaynes Corporation  
2906 Broadway NE  
Albuquerque, NM 87107

**RE:** Construction Storm Water, SIC 1542, NPDES Compliance Evaluation Inspection, Jaynes Corporation /  
New Mexico Consortium Biological Research Facility, NMR12A056, November 15, 2012

Dear Mr. James:

Enclosed, please find a copy of the report for the referenced inspection that the New Mexico Environment Department (NMED) conducted at a construction site for which you may be an "operator" (see 2003/8 Construction General Permit (CGP), Definitions, Appendix A). The NMED conducted this inspection 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.

Problems noted during this inspection are discussed in the worksheet inspection report. You are encouraged to review the inspection report; and required to correct any problems noted during the inspection and to modify your operational and/or administrative procedures, as appropriate. Further, you are encouraged to notify in writing regarding modifications and compliance schedules both the USEPA (Diana McDonald, USEPA (6EN-WM), 1445 Ross Avenue, Dallas, Texas 75202-2733) and the NMED Surface Water Quality Bureau Program Manager (at the address above).

I appreciate the cooperation of Sam Burns, Superintendent, Jaynes Structures, Inc. during the inspection. If you have any questions about this inspection report, please contact me at 505-827-0418.

Sincerely,

/s/Erin S. Trujillo

Erin S. Trujillo  
Surface Water Quality Bureau

cc: Rashida Bowlin, USEPA (6EN) by e-mail  
Hannah Branning, USEPA (6EN-WC) by e-mail  
Darlene Whitten-Hill, USEPA (6EN-WC) by e-mail  
Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail  
Diana McDonald, USEPA (6EN-WM) by e-mail  
Robert Italiano, NMED District II Santa Fe by e-mail



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	R	1	2	A	0	5	6	11	12	1	2	1	1	1	5	17	18	}	19	S	20	2	
Remarks																													
C O N S T R U C T I O N > 1 A C R E																													
Inspection Work Days						Facility Evaluation Rating						BI		QA		-----Reserved-----													
67						69	70	2	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) New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, New Mexico 87544. Los Alamos County	Entry Time /Date <b>1100 hours / 11/15/2012</b>	Permit Effective Date February 16, 2012
	Exit Time/Date <b>1700 hours / 11/15/2012</b>	Permit Expiration Date February 16, 2017
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) -Sam Burns, Superintendent, Jaynes Structures, Inc. / 505-345-8591, cell 505-259-7332 -Stan Primak, Construction Manager, NMC, Inc. / 505-662-7708	Other Facility Data <b>Latitude 35.877552°</b> <b>Longitude -106.261615°</b> <b>SIC 1542</b>	
Name, Address of Responsible Official/Title/Phone and Fax Number Shad James, Jaynes Corporation, 2906 Broadway NE, Albuquerque, NM 87107 / Executive Vice President, Albuquerque Operations / 505-345-8591	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> *	

**Section C: Areas Evaluated During Inspection**

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

M	Permit	N	Flow Measurement	N	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
N	Effluent/Receiving Waters	N	Laboratory	M	Storm Water	N	Other:

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

- Owner/Developer - NMC, Inc., a non-profit with a date of incorporation of May 30, 2006 in the State of New Mexico, dba New Mexico Consortium (NPDES Tracking # NMR12A057)  
General Contractor - Jaynes Corporation (NPDES Tracking # NMR12A056)
- A separate EPA 3560 Form will be completed for each operator.
- Some information on Jaynes Corporation electronic Notice of Intent (eNOI) to obtain permit coverage under the 2012 CGP (receiving waters, endangered species, historic preservation) was not consistent with instructions in the permit and/or not supported by documentation in SWPPP. The eNOI system can be used to modify NOIs.
- See attached worksheet with notes and photo log.

Name(s) and Signature(s) of Inspector(s) <b>Erin S. Trujillo /s/Erin S. Trujillo</b>	Agency/Office/Telephone/Fax <b>NMED/SWQB/505-827-0418/505-827-0160</b>	Date <b>12/13/2012</b>
Signature of Management QA Reviewer <b>Sarah Holcomb /s/Sarah Holcomb</b>	Agency/Office/Phone and Fax Numbers <b>NMED/SWQB/505-222-9587/505-222-9510</b>	Date <b>12/13/2012</b>

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

National Database Information		General	
Inspection Type	CEI	Inspector Name	Erin Trujillo
NPDES ID Number	NMR12A057 and NMR12A056	Telephone	505-827-0418
Inspection Date	11/15/2012	Entry Time	1100 hours
Inspector Type (circle one)	EPA <input type="checkbox"/> State <input type="checkbox"/> EPA Oversight	Exit Time	1700 hours
Facility Type (circle one)	<input checked="" type="checkbox"/> Commercial / Residential / Municipal / Industrial	Signature	/s/Erin S. Trujillo

Facility Location Information				
Name/Location/Mailing Address	New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544			
Coordinates	Latitude	35.877552°	Longitude	-106.261615°
Receiving Waters	Stormwater inlets and culverts, thence to un-named unclassified tributary for approximately 0.5 mile, thence to Pueblo Canyon (Los Alamos Canyon to Bayo WWTP) thru San Ildefonso Pueblo, thence Rio Grande.			
Disturbed Area	~2.9 of 3.0 Acres	Start/Stop Dates	06/26/2012 (map) / 04/02/2013 (SWPPP)	

Contact Information		
	Name(s)	Telephone
Name(s) and Role(s) of All Parties Meeting the Definition of Operator	-NMC, Inc.-Owner/Operator/Developer (NMR12A057)	505-662-7708
	-Jaynes Corporation-Operator/Gen. Contractor (NMR12A056)	505-345-8591
Facility Contact	-Sam Burns, Superintendent, Jaynes Structures, Inc.	505-345-8591, 505-259-7332
Authorized Official(s)	-Katarine Chartrand, NMC, Inc. -Shad James, Jaynes Corporation	505-662-7708 505-345-8591

Site Information: circle all that apply							
<b>Nature of Project</b>	Residential	<input checked="" type="checkbox"/> Commercial / Industrial	Roadway	Private	Federal	State / Municipal	<input type="checkbox"/> Other
<b>Construction Stage</b>	Clearing / Grubbing	<input checked="" type="checkbox"/> Rough Grading	<input checked="" type="checkbox"/> Infrastructure	<input checked="" type="checkbox"/> Building (Vertical)	Final Grading	Final Stabilization	

Basic Permit Information			Basic SWPPP Information		
Permit Coverage	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	SWPPP Prepared & Available? <i>Part 7.1.1, 7.2.1</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Permit Type	<input checked="" type="checkbox"/> General	Individual	SWPPP Contents Satisfactory?	Y	<input type="checkbox"/> N
Notice Posted (visible, font large, NPDES Permit tracking#, contact name & phone #) <i>Part 1.5</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	SWPPP Implementation Satisfactory?	Y	<input type="checkbox"/> N
	NMC, Inc	Jaynes		NMC, Inc	Jaynes
NOI Date	03/20/2012	03/20/2012	SWPPP Date	03/19/2012	03/19/2012
Is NOI Satisfactory?	Y	<input type="checkbox"/> N			

Additional Facility and Inspection Information (optional)
On November 15, 2012, a Compliance Evaluation Inspection (CEI) was conducted by Erin S. Trujillo of the NMED at the New Mexico Consortium Biological Research Facility construction activity, an office and research laboratory including greenhouse in the Entrada Subdivision, from approximately 1100 to 1700 hours. Upon arrival, the inspector made introductions, explained purpose of inspection and presented credentials to Mr. Burns, then later to Ms. Chartrand when she was available. A tour and exit interview to discuss the preliminary findings of this inspection was conducted with Mr. Burns on site. This checklist report is based on a review of the USEPA online notice of intent (eNOI) database, review of files maintained by the Permittees and NMED, on-site observation by NMED personnel, and verbal information provided by the Permittees representatives and NMC, Inc. web site.

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

<b>SWPPP Review (can be completed in office)</b>			
<b>General</b>	<b>Notes:</b>		
<b>SWPPP Signed/Certified.</b> Did all operators sign/certify the SWPPP? <i>Part 7.2.15, Appendix I.11</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
<b>SWPPP completed prior to NOI?</b> <i>Part 7.1.1, Part 1.2.1</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	SWPPP dated 03/05/2012 prepared by SWPPP Compliance LLC, Albuquerque, New Mexico completed (signed/certified) on 03/19/2012
<b>Endangered Species Act.</b> Does SWPPP include documentation supporting determination? <i>Part 7.2.14.1; Part 1.1.e, Appendix D</i>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	See Additional Notes on SWPPP Review
<b>Historic Properties.</b> Does SWPPP include documentation supporting determination? <i>Part 7.2.14.2, Appendix E</i>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	See Additional Notes on SWPPP Review
<b>If applicable, documents contact with agency or office responsible for implementing Safe Drinking Water Act <u>underground injection control well(s)</u>?</b> <i>Part 7.2.14.3, 40 CFR Parts 144 -147</i>	<input type="checkbox"/> Y	<input type="checkbox"/> N	Not applicable
<b>Post-Authorization Additions.</b> Does SWPPP include: ➤ Copy of acknowledgement letter <input type="checkbox"/> N ➤ Copy of NOI <input checked="" type="checkbox"/> Y ➤ Copy of permit <input checked="" type="checkbox"/> Y <i>Part 7.2.16.3</i>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
<b>If applicable, SWPPP describes compliance with any case-by-case basis USEPA imposed water quality-based effluent limitation requirements?</b> <i>Part 3</i>	<input type="checkbox"/> Y	<input type="checkbox"/> N	Not applicable
<b>If discharge to an impaired water, includes records of all data used to complete NOI:</b> ➤ List of all impaired waters <input type="checkbox"/> Y/ <input type="checkbox"/> N ➤ Pollutant(s) for which the surface water is impaired <input type="checkbox"/> Y/ <input type="checkbox"/> N ➤ Whether a TMDL has been approved or established <input type="checkbox"/> Y/ <input type="checkbox"/> N <i>Part 3.2.1, Appendix I.15</i>	<input type="checkbox"/> Y	<input type="checkbox"/> N	Not applicable
<b>Required SWPPP modifications completed?</b> ➤ Completed w/7 days <input type="checkbox"/> N ➤ Maintains modification records showing dates, name of person authorizing change and summary <input type="checkbox"/> N ➤ Signed/Certified <input type="checkbox"/> N ➤ Immediately notified other operators <b>Not documented</b> <i>Parts 7.4, 5.2.2, Appendix I.11.b</i>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Addition or modification (e-mails from SWPPP preparer dated 04/05/2012 on Allowable Non-Stormwater Discharge Management) were included in SWPPP, but modification was not signed/certified. See notes below on corrective action.
<b>Records Retention.</b> 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? <i>Parts 4.1.7, 5.4.4, Appendix I.10.2, I.15</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	

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

Team & Activity Description			Notes:
<b>Identifies stormwater team personnel and responsibilities?</b> ➤ Personnel (by name or position) <b>Y</b> ➤ Individual responsibilities <b>Y</b> <i>Part 7.2.1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Is staff training documented?</b> ➤ Training occurs prior to the commencement of earth-disturbing activities or pollutant-generating activities, whichever occurs first <b>N</b> ➤ Ensures following understand the requirements of this permit and their specific responsibilities: ○ Personnel responsible for the design, installation, maintenance, and/or repair of controls/measures <b>N</b> ○ Personnel responsible for the application and storage of treatment chemicals <b>Y</b> ○ Personnel responsible for conducting inspections <b>N (Back up staff)</b> ○ Personnel responsible for taking corrective actions <b>N (Back up staff)</b> ➤ At a minimum, training includes: ○ Location of all stormwater controls on the site required by this permit, and how maintained <b>Not documented</b> ○ Proper procedures to follow with respect to the permit's pollution prevention requirements <b>Not all documented</b> ○ When and how to conduct inspections, record applicable findings, and take corrective actions <b>Not documented</b> <i>Parts 7.2.13, 6 and permit notes for emergency-related construction activities</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Training for SWPPP preparer documented. Training certificate for Site Superintendent (inspector) was dated 2010. Signatures and dates were on page of SWPPP with fueling and maintenance of equipment or vehicle controls. Permittee on-site representative described additional awareness training activities conducted during foremen (project) meetings.  But, not all minimum training requirements of 2012 CGP were documented in SWPPP. Only one signature of sub-contractor was on training log in SWPPP. Example letter to subcontractors was in SWPPP, but there was no documentation that letter was sent/received by subcontractors. No inspection or corrective action training documented for team personnel identified to continue SWPPP activities in the site superintendent's absence.
<b>Describes nature of construction activities?</b> ➤ Size of the property <b>Y</b> ➤ Total area to be disturbed <b>Y</b> ➤ Construction support activity areas <b>Y</b> ➤ Maximum area to be disturbed at any one time <b>Y</b> <i>Part 7.2.2</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>If applicable, documents emergency-related projects?</b> ➤ Cause of public emergency (e.g., natural disaster, extreme flooding conditions, etc.) <b>Y/N</b> ➤ Info substantiating occurrence (e.g., state disaster declaration or similar state or local declaration) <b>Y/N</b> ➤ Description of the construction necessary to reestablish effected public services <b>Y/N</b> <i>Parts 7.2.3, 1.2</i>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable
<b>Identifies (lists) other site operators and areas of site over which each has control?</b> ➤ List and areas of site over which each has control <i>Part 7.2.4</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SG Western Construction, Inc. (NPDES Tracking # NMR12AB31)--not a subcontractor according to Permittee on-site representatives--uses the construction entrance to access and remove material from a stockpile area and export it to another site. Hand written annotation on Site Map stated, "Not in Contract to Export," but did not list operator.

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

<p><b>Describes sequence, estimated dates (departures) and duration of construction activities?</b></p> <ul style="list-style-type: none"> <li>➤ Installation of control measures when operational <b>Y</b></li> <li>➤ Commencement/duration clearing &amp; grubbing, mass grading, site preparation (excavating, cutting &amp; filling), final grading, and creation of soil &amp; vegetation stockpiles <b>N (stockpiles)</b></li> <li>➤ Cessation, temporarily or permanently, of construction activities on the site, or in designated portions of site <b>Y</b></li> <li>➤ Final/temporary stabilization areas of exposed soil <b>Y</b></li> <li>➤ Removal of temporary stormwater conveyances/channels and other stormwater control measures <b>Not documented</b></li> <li>➤ Removal of construction equipment and vehicles <b>Not documented</b></li> </ul> <p><i>Part 7.2.5</i></p>	Y	<input checked="" type="checkbox"/> N	<p>Not all stockpile sequence, estimated dates and duration described. SWPPP included copy of project schedule updated 05/09/2012 that lists “<i>Final Clean Up.</i>” SWPPP did not describe specific removal activities.</p>
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## Industrial Storm Water Worksheet (Construction) – State of New Mexico

Site Map			Notes:
Includes legible site map(s)? <i>Part 7.2.6</i>	<input checked="" type="checkbox"/> Y	N	
<ul style="list-style-type: none"> <li>➤ Boundaries of the property <b>Y</b></li> <li>➤ Locations construction activities will occur <b>Y</b></li> <li>➤ Locations earth-disturbing activities will occur (note any phasing) <b>Y</b></li> <li>➤ Approximate slopes before and after major grading (note steep slopes) <b>Y</b></li> <li>➤ Locations sediment, soil, or materials will be stockpiled <b>Y</b></li> <li>➤ Locations of crossings of surface waters <b>NA</b></li> <li>➤ Designated points vehicles exit onto paved roads <b>Y</b></li> <li>➤ Locations of structures/impervious surfaces upon completion <b>Y</b></li> <li>➤ Locations of construction support activity areas <b>Y</b></li> </ul> <i>Part 7.2.6.1</i>	<input checked="" type="checkbox"/> Y	N	
<ul style="list-style-type: none"> <li>➤ Locations of surface waters/wetlands, within or in immediate vicinity <b>Y</b></li> <li>➤ Indicates waters listed as impaired, and Tier 2, <del>Tier 2.5</del>, or Tier 3 <b>NA</b></li> </ul> <i>Part 7.2.6.2</i>	<input checked="" type="checkbox"/> Y	N	
<ul style="list-style-type: none"> <li>➤ Boundary lines of natural buffers</li> </ul> <i>Parts 7.2.6.3, 2.1.2.1a</i>	Y	N	Not applicable
<ul style="list-style-type: none"> <li>➤ Areas of federally-listed critical habitat for endangered or threatened species</li> </ul> <i>Part 7.2.6.4</i>	Y	N	Not applicable
<ul style="list-style-type: none"> <li>➤ Topography <b>Y</b></li> <li>➤ Existing vegetative cover <b>Y</b></li> <li>➤ Drainage pattern of stormwater/authorized non-stormwater flow onto, over, and from site before and after major grading <b>Y</b></li> </ul> <i>Part 7.2.6.5</i>	<input checked="" type="checkbox"/> Y	N	
<ul style="list-style-type: none"> <li>➤ Stormwater and allowable non-stormwater discharge locations <b>Y</b></li> <li>➤ Locations of storm drain inlets on site and immediate vicinity <b>Y</b></li> <li>➤ Locations stormwater or allowable non-stormwater will be discharged to surface waters (including wetlands) on or near site <b>Y</b></li> </ul> <i>Part 7.2.6.6</i>	<input checked="" type="checkbox"/> Y	N	
<ul style="list-style-type: none"> <li>➤ Locations of potential pollutant-generating activities</li> </ul> <i>Part 7.2.6.7, Part 7.2.7</i>	Y	<input checked="" type="checkbox"/> N	Not updated. Portable toilets at construction office yard were not on site map.
<ul style="list-style-type: none"> <li>➤ Locations of control measures</li> </ul> <i>Part 7.2.6.8</i>	Y	<input checked="" type="checkbox"/> N	Not all updated (e.g., stabilized entrance, silt fence, washout, wattle). See implementation notes below.
<ul style="list-style-type: none"> <li>➤ Locations polymers, flocculants, or treatment chemicals will be used/stored</li> </ul> <i>Part 7.2.6.9</i>	Y	N	Not applicable (Emulsion options for dust control listed, but use of polymers, flocculants, or other treatment chemicals not described in SWPPP)

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

Construction Site Pollutants			Notes:
<b>Includes pollutant-generating activities list and description?</b> <i>Part 7.2.7.1</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
<b>Includes inventory of pollutants or constituents?</b> ➤ Inventory <b>Y</b> ➤ Potential spills/leaks <b>Y</b> ➤ Departures from manufacturer’s specifications for applying fertilizers containing nitrogen & phosphorus <b>NA</b> <i>Parts 7.2.7.2, 2.3.5.1</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
<b>Identifies all sources of allowable non-stormwater discharges?</b> <i>Parts 7.2.8, 1.3.d</i>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
<b>If required (surface water w/50 feet of earth disturbance), documents and describes <u>buffer compliance alternative</u> selected?</b> ➤ 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 reduction Y/N/NA ➤ Documents any information relied upon to demonstrate equivalency Y/N/NA <i>Parts 7.2.9, 2.1.2, Appendix G</i>	Y	N	Not applicable
<b>As applicable, describes and documents <u>buffer exceptions</u>?</b> ➤ 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 <i>Parts 7.2.9; 2.1.2.1e, Appendix G</i>	Y	N	Not applicable

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

All Stormwater Control Measures		Notes:
<p><b>Describes each measure?</b></p> <ul style="list-style-type: none"> <li>➤ Type of measure to be installed and maintained, including design information <b>Y</b></li> <li>➤ Specific sediment controls installed and made operational prior to conducting earth-disturbing activities <b>Y</b></li> <li>➤ For exit points, stabilization techniques and any additional controls planned to remove sediment prior to vehicle exit <b>Y</b></li> <li>➤ For linear projects (if applicable), where/why it has been determined that the use of perimeter controls is practicable <b>NA</b></li> </ul> <p><i>Part 7.2.10.1</i></p>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Erosion and Sediment Controls		Notes:
<p><b>Minimizes <u>area of disturbance</u>?</b></p> <p><i>Part 2.1.1.1</i></p>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<p><b>Describes erosion and sediment control <u>design</u> requirements?</b></p> <ul style="list-style-type: none"> <li>➤ Accounts for expected amount, frequency, intensity, duration of precipitation <b>Y</b></li> <li>➤ Accounts for nature of run-on and run-off (channelized peak flow rates &amp; total volume at outlet) <b>Y</b></li> <li>➤ Accounts for range of soil particle sizes (distribution, erosivity and cohesiveness) <b>Y</b></li> <li>➤ Directs discharge to vegetated areas to increase sediment removal and infiltration unless infeasible <b>Y</b></li> <li>➤ Uses velocity dissipation, if necessary <b>Y</b></li> <li>➤ Complies with State of New Mexico except Indian country requirements:             <ul style="list-style-type: none"> <li>○ 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 construction <b>Not documented</b></li> <li>○ 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 ) <b>Not documented</b></li> </ul> </li> </ul> <p><i>Parts 2.1.1.2, 9.4.1.1</i></p>	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	<p>Soil loss information in SWPPP, in this case RUSLE calculations did not appear to document compliance with requirements of Part 9.4.1.1 of the 2012 CGP. Updates, clarification and/or additional information appeared needed.</p> <p>Page 13 of the SWPPP stated, “<i>Site has been previously developed and is now covered with asphalt.</i>” Portions of the site (e.g., construction support activity areas and undisturbed areas in the northeast corner of the site) did not appear to have been covered with asphalt. Erosion Summary Total on Page 13 of the SWPPP (Sum of all Fields) was 3 t/ac/yr. It was not clearly stated if this soil loss estimate was prior to or during construction. Additional soil loss information on Page 15 of SWPPP listed Bare Soil = 1.55 t/ac/yr; Vegetated = 0.17 t/ac/yr; and ECB = 0.25 t/ac/yr. It was not clearly stated if estimates were prior to, during or after construction. On-site location of ECB (erosion control blankets) was not described in SWPPP or shown on the landscape information provided for review by the Permittee on-site representative on the day of this inspection.</p>
<p><b>Describes erosion and sediment control <u>installation</u> requirements?</b></p> <ul style="list-style-type: none"> <li>➤ Completes installation of downgradient stormwater/sediment controls by the time or immediately following earth-disturbance begins unless infeasible <b>Y</b></li> <li>➤ Installs all other controls and makes operational as soon as conditions allow <b>Y</b></li> <li>➤ Uses good engineering practices and follows manufacturer’s specifications or explain departures <b>Y</b></li> </ul> <p><i>Part 2.1.1.3</i></p>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

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

<p><b>Describes erosion and sediment control maintenance requirements?</b></p> <ul style="list-style-type: none"> <li>➤ Initiates fix immediately and completed by close of next work day (routine maintenance) <b>Not documented</b></li> <li>➤ Installs new measure/significant repair no later than 7 calendar days or document why infeasible <b>Y</b></li> </ul> <p><i>Part 2.1.1.4</i></p>	Y	<input type="checkbox"/> N	Described maintenance in SWPPP did not include all specific timeframes in Part 2 of 2012 CGP.
<p><b>Installs perimeter controls and describes maintenance (removes sediment before it has accumulated to 1/2 of the above-ground height)?</b></p> <p><i>Part 2.1.2.2</i></p>	<input checked="" type="checkbox"/> Y	N	
<p><b>Minimizes sediment track-out?</b></p> <ul style="list-style-type: none"> <li>➤ Restricts vehicle use to properly designated exit points? <b>Y</b></li> <li>➤ Uses appropriate stabilization techniques at all points that exit onto paved roads? <b>Y</b></li> <li>➤ Where necessary, uses additional measures to remove sediment prior to exit? <b>Y</b></li> <li>➤ Removes tracked out sediment prior to the end of the same work day or if occurs on non-work day the next work day? <b>Not documented</b></li> </ul> <p><i>Part 2.1.2.3</i></p>	Y	<input type="checkbox"/> N	Described maintenance in SWPPP did not include specific timeframes in Part 2 of 2012 CGP.
<p><b>Controls discharges from stockpiled sediment or soil?</b></p> <ul style="list-style-type: none"> <li>➤ Locates piles outside of buffers <b>NA</b></li> <li>➤ Locates piles separate from stormwater controls <b>Y</b></li> <li>➤ Uses temporary sediment barrier <b>Y</b></li> <li>➤ Where practicable, provides cover or temporary stabilization <b>Not documented</b></li> <li>➤ Does not hose down or sweep into stormwater conveyance unless connected to basin, trap, etc. <b>Not documented</b></li> <li>➤ Contains and securely protects pile from wind? <b>Not documented</b></li> </ul> <p><i>Part 2.1.2.4</i></p>	Y	<input type="checkbox"/> N	Described controls in SWPPP did not include all conditions in Part 2 of 2012 CGP. See notes on implementation (“soils stock pile” in northwest area).
<p><b>Minimizes dust?</b></p> <p><i>Part 2.1.2.5</i></p>	<input checked="" type="checkbox"/> Y	N	
<p><b>Minimizes disturbance of steep slopes?</b></p> <p><i>Part 2.1.2.6</i></p>	Y	<input type="checkbox"/> N	Not documented for steep slopes below constructed wall above Entrada Subdivision retention pond (basin or area).
<p><b>Preserves topsoil, unless infeasible?</b></p> <p><i>Part 2.1.2.7</i></p>	<input checked="" type="checkbox"/> Y	N	
<p><b>Minimizes soil compaction where final vegetative stabilization or infiltration installed?</b></p> <p><i>Part 2.1.2.8</i></p>	Y	<input type="checkbox"/> N	Not described
<p><b>Protects storm drain inlets and describes maintenance requirements (removes sediment by the end of the same work day or end of the following work day)?</b></p> <p><i>Part 2.1.2.9</i></p>	<input checked="" type="checkbox"/> Y	N	
<p><b>Describes constructed conveyance channel controls (if installed)?</b></p> <p><i>Part 2.1.3.1</i></p>	Y	N	Not applicable

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

<p><b>Describes <u>sediment basin</u> design (if installed) and maintenance (maintain at least ½ of capacity at all times)?</b> <i>Part 2.1.3.2</i></p>	Y	<input checked="" type="checkbox"/>	Not documented. Pond (basin) was excavated as part of this construction activity in northeast corner of site. Specific design and maintenance for this basin was not described in SWPPP.
<p><b>Describes <u>treatment chemical</u> controls (if used)?</b> <i>Part 2.1.3.3</i></p>	Y	N	Not applicable (emulsion options for dust control listed, but use of polymers, flocculants, or other treatment chemicals was not described in SWPPP)
<p><b>Includes documentation for use of <u>treatment chemicals</u> (polymers, flocculants, or other treatment chemicals)?</b></p> <ul style="list-style-type: none"> <li>➤ 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</li> <li>➤ Lists all treatment chemicals and why the selection of these chemicals is suited to the soil characteristics Y/N</li> <li>➤ 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</li> <li>➤ Dosage/methodology to determine dosage Y/N</li> <li>➤ Information from any applicable MSDS Y/N</li> <li>➤ Schematic drawings of any chemically-enhanced or chemical treatment systems Y/N/NA</li> <li>➤ Description of how chemicals will be stored Y/N</li> <li>➤ References to applicable state or local requirements and copies of applicable manufacturer’s specifications Y/N</li> <li>➤ Description of training that personnel have received or will receive Y/N</li> </ul> <p><i>Parts 7.2.10.2, 2.1.3.3h</i></p>	Y	N	Not applicable
<p><b>Describes <u>dewatering</u> controls (if installed)?</b> <i>Part 2.1.3.4</i></p>	Y	N	Not applicable

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

<b>Stabilization Requirements</b>		<b>Notes:</b>
<p><b>Describes compliance with deadlines for vegetative and/or non-vegetative stabilization practices, including exceptions?</b></p> <p><u>Deadline to Initiate</u></p> <ul style="list-style-type: none"> <li>➤ Initiates stabilization immediately (no later than end of next work day following earth-disturbing activities permanently/temporarily ceased) <b>Y</b></li> </ul> <p><u>Deadline to Complete</u></p> <ul style="list-style-type: none"> <li>➤ 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) <b>Y</b></li> <li>➤ 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 <b>Y</b></li> <li>➤ Documents/describes circumstances beyond control that prevent meeting deadlines <b>NA</b></li> <li>➤ If discharging to sediment or nutrient-impaired waters or Tier <del>2</del><sup>2.5</sup> or 3 waters, completes stabilization (vegetative or non-vegetative) w/7 calendar days after temporary or permanent cessation <b>NA</b></li> </ul> <p><i>Parts 7.2.10.3, 2.2.1, 3, 9.4.1.3</i></p>	<p align="center"><input checked="" type="checkbox"/> Y    <input type="checkbox"/> N</p>	
<p><b>Describes compliance with vegetative (final) stabilization criteria?</b></p> <ul style="list-style-type: none"> <li>➤ 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 <b>N</b></li> <li>➤ 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 install non-vegetative erosion controls that provide cover while vegetation is becoming established <b>N</b></li> </ul> <p><i>Parts 7.2.10.3, 2.2.2.a, 3, 9.4.1.4</i></p>	<p align="center">Y    <input checked="" type="checkbox"/> N</p>	<p>Permit requirements were in SWPPP. But, site specific stabilization, including landscaping and vegetation for “soils stock pile”, “lay-down yard area,” and northeast corner of site was not described. Portions of landscaping plans provided by Permittee on-site representative on day of this inspection identified the use of crimp straw/native seed in northeast corner of site, but installation and maintenance were not described in SWPPP.</p>

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

<p><b>If applicable, describes compliance with State of New Mexico, except Indian country, arid, semi-arid areas, or drought stricken option for final stabilization:</b></p> <ul style="list-style-type: none"> <li>➤ Area seeded/planted must w/3 yrs provides established vegetation that achieves 70% of the native background vegetative cover <b>N</b></li> <li>➤ Selects, designs, and installs non-vegetative erosion controls that provide cover for at least 3 years without active maintenance <b>N</b></li> <li>➤ Complies with notification, inspection maintenance, and reporting) <b>Not documented</b></li> </ul> <p><i>Parts 7.2.10.3, 2.2.2.b, 3, 9.4.1.5</i></p>	Y	<input type="checkbox"/> N	<p>See notes above. Permit requirements were in SWPPP. But, it was not documented if or how operators would comply with arid/drought options or Part 9.4.1.5.</p>
<p><b>If using, provides effective non-vegetative cover to stabilize?</b></p> <p><i>Parts 7.2.10.3, 2.2.2.2</i></p>	<input type="checkbox"/> Y	N	

<b>Pollution Prevention Procedures</b>		<b>Notes:</b>	
<p><b>Describes procedures for <u>spill prevention and response</u>?</b></p> <p><i>Parts 7.2.11.1, 2.3.4</i></p>	<input type="checkbox"/> Y	N	
<p><b>Describes procedures for <u>waste management</u>?</b></p> <p><i>Part 7.2.11.2, 2.3.3.3</i></p>	<input type="checkbox"/> Y	N	
<p><b>Eliminates prohibited discharges?</b></p> <ul style="list-style-type: none"> <li>➤ Concrete washout, unless managed by control in Part 2.3.3.4 <b>Y</b></li> <li>➤ Washout/cleanout of stucco, paint, form release oils, curing compounds and other materials unless managed by control in Part 2.3.3.4 <b>Y</b></li> <li>➤ Fuels, oils or other from vehicle and equipment O&amp;M <b>Y</b></li> <li>➤ Soaps, solvents, or detergents used in vehicle and equipment washing <b>NA</b></li> <li>➤ Toxic or hazardous substances from spill/release <b>Y</b></li> </ul> <p><i>Part 2.3.1</i></p>	<input type="checkbox"/> Y	N	
<p><b>Properly maintains and protects all pollution prevention controls?</b></p> <p><i>Part 2.3.2</i></p>	<input type="checkbox"/> Y	N	
<p><b>Complies with pollution prevention standards for certain activities?</b></p> <ul style="list-style-type: none"> <li>➤ Fueling/maintenance of equipment or vehicles <b>Y</b></li> <li>➤ Washing of equipment and vehicles <b>Y</b></li> <li>➤ Storage, handling, disposal of materials, products and waste <b>Y</b></li> <li>➤ Washing applicators/containers <b>Y</b></li> </ul> <p><i>Part 2.3.3</i></p>	<input type="checkbox"/> Y	N	
<p><b>Minimizes discharge/complies with restrictions of <u>fertilizer application</u>?</b></p> <p><i>Part 2.3.5</i></p>	Y	N	<p>On-site use of fertilizers not applicable / not described in SWPPP.</p>

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

Inspections and Corrective Action		
<p><b>SWPPP describes procedures for <u>inspection, maintenance, and corrective action</u>?</b></p> <ul style="list-style-type: none"> <li>➤ Personnel conducting inspections <b>Y</b></li> <li>➤ Inspection schedule <b>Y</b></li> <li>➤ Reduction of inspection frequency <b>N</b></li> </ul> <p>As applicable:</p> <ul style="list-style-type: none"> <li>○ location of the rain gauge or the address of weather station to obtain rainfall data <b>N</b></li> <li>○ beginning and ending dates of the seasonally-defined arid period for your area or the valid period of drought <b>NA</b></li> <li>○ beginning and ending dates of frozen conditions <b>NA</b></li> </ul> <ul style="list-style-type: none"> <li>➤ Inspection or maintenance checklists or other forms that will be used <b>Y</b></li> </ul> <p><i>Parts 7.2.12</i></p>	Y	<input type="checkbox"/> N
<div style="display: flex; justify-content: space-between;"> <span><b>Inspections</b></span> <span><b>Notes:</b></span> </div>		
<p><b>Inspections performed by “qualified” person?</b></p> <p><i>Part 4.1.1</i></p>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
<p><b>Conducts inspections at a minimum of required frequency unless reductions documented?</b></p> <ul style="list-style-type: none"> <li>➤ Every 7 days or 14 days &amp; w/in 24 hrs of a 0.25” rain event <b>Not documented</b></li> </ul> <p><i>Part 4.1.2</i></p>	Y	<input checked="" type="checkbox"/> N
<p><b>If applicable, conducts increased inspection frequency for sites with discharges to sediment or nutrient-impaired waters or Tier <del>2, 2.5</del> or 3 waters:</b></p> <ul style="list-style-type: none"> <li>➤ Once every 7 days Y/N; and</li> <li>➤ Within 24 hrs of a <math>\geq 0.25</math>” rain event Y/N?</li> </ul> <p><i>Parts 4.1.3, 3.3.2.1, 3.3.2</i></p>	Y	<input type="checkbox"/> N
<p><b>If allowable (begin/end dates recorded), documents reduced inspection frequency?</b></p> <ul style="list-style-type: none"> <li>➤ Stabilized area - 1/mo in areas where stabilization has been completed Y/N/NA</li> <li>➤ For arid/semi arid during seasonally dry period or drought-stricken areas - 1/mo and w/24 hrs of the occurrence of a storm event <math>\geq 0.25</math>” Y/N/NA</li> <li>➤ For frozen conditions (runoff unlikely, disturbance suspended, areas stabilized) - suspends until thawing conditions Y/N/NA</li> </ul> <p><i>Part 4.1.4.1 thru 3</i></p>	Y	<input type="checkbox"/> N
<p><b>Inspection areas includes:</b></p> <ul style="list-style-type: none"> <li>➤ All cleared, graded, excavated, and not completed stabilization <b>Y</b></li> <li>➤ All controls/measures <b>Y</b></li> <li>➤ Material/waste/borrow/equipment storage and maintenance areas <b>Y</b></li> <li>➤ All areas stormwater typically flows <b>Y</b></li> <li>➤ All points of discharge <b>Y</b></li> <li>➤ All locations stabilization implemented <b>Y</b></li> </ul> <p><i>Part 4.1.5</i></p>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

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<p><b>Inspection includes minimum requirements?</b></p> <ul style="list-style-type: none"> <li>➤ Controls installed/operational <b>Y</b></li> <li>➤ Determines need to replace, repair, or maintain <b>Y</b></li> <li>➤ Conditions that could lead to spills, leaks, and accumulations of pollutants <b>Y</b></li> <li>➤ Identifies where new or modified controls are necessary <b>N</b></li> <li>➤ At points of discharge, checks for visible erosion/sedimentation on banks <b>NA</b></li> <li>➤ Identifies noncompliance <b>Y</b></li> <li>➤ If discharge is occurring: <b>Not applicable</b> <ul style="list-style-type: none"> <li>○ Identifies all points of discharge <b>Y/N</b></li> <li>○ Observes/documents visual quality, including color, odor, floating, settled, or suspended solids, foam, oil sheen, and other of pollutants <b>Y/N</b></li> <li>○ Documents whether controls operating effectively, and describes controls not operating as intended or need maintenance <b>Y/N</b></li> </ul> </li> <li>➤ Based on results of inspection, initiates corrective action under Part 5. <b>Not identified</b></li> </ul> <p><i>Part 4.1.6</i></p>	Y	<input checked="" type="checkbox"/> N	<p>As discussed below, the need for corrective action was not identified in inspection reports or maintenance log.</p>
<p><b>Inspection reports:</b></p> <ul style="list-style-type: none"> <li>➤ Completed within 24 hrs <b>Y</b></li> <li>➤ Includes inspection date <b>Y</b></li> <li>➤ Includes names/titles of personnel <b>Y</b></li> <li>➤ Includes summary of findings <b>Y</b></li> <li>➤ Includes applicable rain gauge reading <b>Y</b></li> <li>➤ Signed and certified in accordance with Appendix I.11 <b>Y = Jaynes; N = NMC, Inc.</b></li> </ul> <p><i>Part 4.1.7.1 and 2</i></p>	Y	N	<p>Y = Jaynes Corporation</p> <p>N = NMC, Inc. reports not signed and certified in accordance with Appendix I.11 N.</p>

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

Corrective Action			Notes:
<p><b>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?</b></p> <p><i>Part 5</i></p>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<p>Log of activities in SWPPP indicated that wattle was added on 10/15/2012. The site map was updated with an approximately 25 foot section of wattle at the top of a steep slope disturbed by construction activities. It appeared that wattle was never installed or installed incorrectly as described in SWPPP--wattle placement diagrams on Page 22 of SWPPP showed, "wattle placed at top of slope."</p> <p>See notes below on implementation of other controls (e.g., entrance/exit control, wattle, area not to be disturbed).</p>
<p><b>Within 24 hours of discovering the occurrence, completes a report of the following:</b></p> <ul style="list-style-type: none"> <li>➤ Condition identified <input type="checkbox"/> N</li> <li>➤ Nature of the condition identified <input type="checkbox"/> N</li> <li>➤ Date and time of the condition identified and how it was identified <input type="checkbox"/> N</li> </ul> <p><i>Part 5.4</i></p>	Y	<input checked="" type="checkbox"/> N	<p>No 24-hour Corrective Action reports contained in SWPPP. Activity log and inspection reports did not have all information required by 2012 CGP.</p>
<p><b>Within 7 calendar days of discovering the occurrence, completes a report of the following:</b></p> <ul style="list-style-type: none"> <li>➤ Follow-up actions taken to review the design, installation, and maintenance of stormwater controls, including the dates such actions occurred <input type="checkbox"/> N</li> <li>➤ Summary of stormwater control modifications taken or to be taken <input type="checkbox"/> N</li> <li>➤ Schedule of activities necessary to implement changes <input type="checkbox"/> N</li> <li>➤ Date the modifications are completed or expected to be completed <input type="checkbox"/> N</li> <li>➤ Notice of whether SWPPP modifications are required as a result of the condition identified or corrective action <input type="checkbox"/> N</li> <li>➤ Signed and certified in accordance with Appendix I.11 <input type="checkbox"/> N</li> </ul> <p><i>Parts 5.4.2, 5.4.3</i></p>	Y	<input checked="" type="checkbox"/> N	<p>No 7-day Corrective Action reports contained in SWPPP. Activity log and inspection reports did not have all information required by 2012 CGP.</p>

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

### Additional Notes on SWPPP Review *(optional)*

#### **Notice of Intent**

Both NMC, Inc dba New Mexico Consortium and Jaynes Corporation eNOI were prepared by Rodger Barton, SWPPP Compliance LLC, Albuquerque, NM.

Part V of the NOI incorrectly lists Rio Grande as the receiving water in accordance with instructions of the 2012 CGP. Appendix J (Notice of Intent (NOI) Form and Instructions) of the 2012 CGP states, *“Provide the name(s) of the first surface water that received stormwater directly from your site.”*

Answer to Section VIII (Endangered Species) of the NOI was not supported by documentation in SWPPP. Some criterion designations have changed from the 2008 CGP (See Appendix D of the 2012 CGP). Both NMC, Inc and Jaynes Corporation NOIs certified under Criterion E (i.e., Consultation between Federal Agency and USFWS under Section 7 of the ESA Concluded--Biological Opinion/Written Concurrence), but documentation of this consultation was not in SWPPP.

Answers to Part IX (Historic Preservation) of the NOI were not supported by documentation in SWPPP. Both NMC, Inc and Jaynes Corporation NOIs indicated that no stormwater controls as described in Appendix E require subsurface earth disturbance. Appendix E, Step 1 of the 2012 CGP lists the following example controls: dikes, berms, catch basins, ponds, ditches, trenches, culverts, channels, perimeter drains, swales. A stormwater pond was excavated in the northeast corner of the site and a rock lined swale was constructed west of the site entrance in the southwest area of the site. Both control structures were shown on the site map in the SWPPP.

#### **SWPPP**

Section 1.3 of the SWPPP incorrectly stated that Operator 1, in this case New Mexico Consortium, *“is not required to certify this SWPPP.”* Part 7.2.15 of the 2012 CGP (SWPPP Certification) states, *“You must sign and date your SWPPP in accordance with Appendix I, Part I.11.”*

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

<b>Implementation (complete in field)</b> <i>(Narrative Description if Control Measures Installed, Operational, Effective and Maintained)</i>	
<b>Erosion and Sediment Control Practices Part 2.1</b>	
<b>Minimize area of disturbance:</b>	<p><i>(Provide brief description)</i></p> <p>Disturbance in northeast corner of site was minimized. Site map indicated area to be protected--“<i>Not to be disturbed.</i>” Barrier fence installed, but break would not prevent access. Area was accessed and disturbed (e.g., top soil stock pile located with area, barrier fence surrounded area).</p>
<b>Buffer compliance:</b>	<p><i>(e.g., provide and maintain a 50-foot undisturbed natural buffer)</i></p> <p>Not applicable</p>
<b>Perimeter controls:</b>	<p><i>(e.g., filter berms, silt fences, temporary diversion dikes)</i></p> <p>Sock (wattle) was located at construction and support activity boundaries that would receive storm water. See notes below on wattle installation.</p>
<b>Exit point or sediment track out:</b>	<p><i>(e.g., aggregate stone with an underlying geotextile or non-woven filter fabric, or turf mats, wheel washing, rumble strips, plates, sweeping)</i></p> <p>No structural exit point or sediment track out control were installed on day of this inspection. Site map showed location of stabilized facility entrance (cobble drive pad). According to the Permittee on-site representative, the control had been removed for final grading and paving activities. No substantial accumulated sediment (track out) from this construction activity observed.</p>
<b>Stockpiled sediment or soil:</b>	<p><i>(e.g., berms, dikes, fiber rolls, silt fences, sandbag, gravel bags)</i></p> <p>Wattle located downgradient of top soil stockpile in northeast corner of site. No erosional features observed below wattle. But, the wattle was not secured (e.g., anchored with stakes or optional gravel bags as described in Page 22 or 23 of SWPPP). Use of optional gravel bags to secure wattle in the event of future high flows appeared feasible.</p> <p>Silt fence at “<i>soils stock pile</i>” in northwest area was not installed as shown on site map. Use of stockpile appeared active. Modification and/or timeframe(s) for installing silt fence needed.</p>
<b>Minimize dust:</b>	<p><i>(e.g., application of water or other dust suppression techniques)</i></p> <p>No substantial dust generated on day of this inspection. Water truck was observed on site.</p>
<b>Steep slopes:</b>	<p><i>(e.g., standard erosion and sediment control practices, phasing disturbances, stabilization practices)</i></p> <p>Portion of steep slope above the Entrada Subdivision retention pond (basin or area) was terraced. Other portion of steep slope had erosion rills. Additional wattle had been placed at top of slope above area with erosion rills according to Site Map on 10/15/2012. Specific stabilization measures for steep slopes appeared needed.</p>
<b>Preserve topsoil:</b>	<p><i>(e.g., stockpiling or transfer of topsoil to other locations)</i></p> <p>Top soil stockpiled in northeast corner of site. See notes below on temporary and final stabilization.</p>

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

<b>Soil compaction:</b>	<p><i>(e.g., restrict vehicle / equipment use, soil conditioning techniques)</i></p> <p>See notes above on barrier fence in northeast corner of the site that may minimize some vehicle / equipment use in area shown to be seeded on landscape plans. Specific soil compaction measures for stabilization appeared needed in some areas of the site.</p>
<b>Storm drain inlet protection:</b>	<p><i>(e.g., fabric filters, sandbags, concrete blocks, gravel barriers)</i></p> <p>Storm drain inlets on paved street had fabric filters and wattle. However, damaged wattle and small gaps were observed. Culvert outlet in Entrada Subdivision retention pond (basin or area) also had wattle.</p>
<b>Conveyance channels:</b>	<p><i>(e.g., erosion controls, and velocity dissipation check dams, sediment traps, riprap, or grouted riprap at outlets)</i></p> <p>Not applicable.</p>
<b>Sediment basin:</b>	<p><i>(e.g., outlet structures that withdraw from the surface, stabilization, erosion controls, velocity dissipation, kept at least 1/2 design capacity)</i></p> <p>Excavated sediment pond (basin) in the northeast corner of the site was under construction on the day of this inspection. Site map does not show a culvert outlet structure, but a non-vegetated stabilized spillway at top of structure.</p>

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

<b>Erosion and Sediment Control Practices - Continued</b>	
<b>Treatment chemicals:</b>	<p><i>(e.g., spill berms, decks, spill containment pallets, storing chemicals in covered area, spill kit available on site)</i></p> <p>Use of treatment chemicals not described in SWPPP / None observed</p>
<b>Dewatering:</b>	<p><i>(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)</i></p> <p>Site specific dewatering not described in SWPPP / Dewatering not observed</p>
<b>Other erosion and sediment controls or practices:</b>	<p><i>(Provide brief description)</i></p> <p>Culvert installed as part of this construction activity with outlet in Entrada Subdivision retention pond (basin or area) had velocity dissipation (gabions).</p> <p>Wattle location in Entrada Subdivision retention pond (basin or area) was at bottom of slope--not on side slope as shown on Site Map. Wattle in retention pond was not secured or anchored as shown on Page 22 or 23 of SWPPP. Wattle in retention pond had gap.</p>
<b>Stabilization Practices Part 2.2</b>	
<b>Stabilization:</b>	<p><i>(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)</i></p> <p>Non-vegetative stabilization (rock gabions at culvert outlet and building foundations) had been constructed. Also, rock lined the swale in the southwest area of site west of the construction entrance.</p>
<b>Are stabilization measures initiated immediately? <b>N</b> Are they completed within 14 days of construction cessation? <b>N</b></b>	<p><i>(e.g. indicate “yes” or “no”; if not within 14 days of construction cessation, how long without stabilization measures?)</i></p> <p>Top soil stockpile in the northeast corner of site had not been temporarily stabilized. The date that the stockpile was created was not recorded on the Site Map, but it appeared that the stockpile has been inactive for more than 14 days. Wattle below the stockpile had dirt that appears to have accumulated during a previous rain event. The last rain recorded event was 10/12/2012.</p>
<b>Pollution Prevention Measures Part 2.3</b>	
<b>Fueling and maintenance of vehicles:</b>	<p><i>(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)</i></p> <p>No on site fueling or maintenance of vehicles observed.</p>
<b>Washing equipment &amp; vehicles:</b>	<p><i>(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)</i></p> <p>No on site washing observed.</p>
<b>Washing applicators/containers (e.g., stucco, paint, concrete, form release oils, curing compounds, and other construction materials)</b>	<p><i>(e.g., leak-proof container or pit, locate as far away as possible from surface waters, inlets or conveyances, designate areas)</i></p> <p>Concrete and other material washout was located away from inlets, but not at location on site map.</p>

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

<b>Pollution Prevention Measures – Continued</b>	
<b>Storage, handling, disposal of construction materials, products and waste:</b>	<p><i>Building products (e.g., asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures):</i></p> <p>Products wrapped in plastic, covered by tarps, or stored in covered shipping containers.</p>
	<p><i>Pesticides, herbicides, insecticides, fertilizers, and landscape materials:</i></p> <p>None observed un-covered or un-sheltered (not all shipping containers entered during this inspection).</p>
	<p><i>Diesel fuel, oil, hydraulic fluids, other petroleum products, and other chemicals:</i></p> <p>No fuel storage observed un-covered or un-sheltered. Most containers with chemicals were covered by tarps, or stored in covered shipping containers. Spill pans were below other containers. See notes on construction waste and litter.</p>
	<p><i>Hazardous or toxic waste (e.g., paints, solvents, petroleum-based products, wood preservatives, additives, curing compounds, acids):</i></p> <p>None observed un-covered or un-sheltered (not all shipping containers entered during this inspection).</p>
	<p><i>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):</i></p> <p>Construction waste container (roll off) had cover. But, some construction waste, including empty or used containers of equipment and/or vehicle maintenance products (e.g., coolant) and litter was on the ground in the southwest area of the site.</p>
	<p><i>Sanitary waste:</i></p> <p>Portable toilets adjacent to building under construction were not anchored (staked or otherwise secured) as described in SWPPP. Location of portable toilets near office were not shown on site map.</p>
<b>Fertilizer application:</b>	<p><i>(e.g., avoids applying before heavy rains, never applies to frozen ground, never applies to conveyance channels with flowing water)</i></p> <p>Site specific use of fertilizer not described in SWPPP / None observed</p>
<b>Miscellaneous</b>	
<b>Evidence of not allowable non-storm water discharges or prohibited discharge?</b>	<p><i>(Provide brief description and determine whether any non-storm water discharges allowable)</i></p> <p>None observed.</p>
<b>Evidence of sediment deposition to surface waters or MS4?</b>	<p><i>(e.g. significant turbidity observed in a receiving water body)</i></p> <p>None observed</p>

<b>NMED/SWQB          Official Photograph Log          Photo # 1</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1515 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Entrada Drive (northside—east of construction entrance) inlet control had damaged wood mulch filled wattle. Arrow points to small gap at top of inlet.		



<b>NMED/SWQB          Official Photograph Log          Photo # 2</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1517 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Entrada Drive (southside—east of construction entrance) inlet control had damaged wattle. Arrow points to gap at top of inlet. Not all accumulated sediment in gutter could be attributed to this project.		



<b>NMED/SWQB          Official Photograph Log          Photo # 3</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1524 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Arrow points to construction entrance/exit that did not have control measure as described in SWPPP.		



<b>NMED/SWQB          Official Photograph Log          Photo # 4</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1534 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Wattle was located in Entrada Subdivision retention pond (basin or area), but not on slope as shown on Site Map. See next photo.		



<b>NMED/SWQB            Official Photograph Log            Photo # 5</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1534 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Wattle shown in previous photo had gap and was not secured (e.g., staked).		



<b>NMED/SWQB            Official Photograph Log            Photo # 6</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1548 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Topsoil stockpile did not have erosional features. Activities for the stockpile appeared to have temporarily ceased.		



<b>NMED/SWQB Official Photograph Log Photo # 7</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1601 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Example of construction waste and litter in southwest area of site.		



<b>NMED/SWQB Official Photograph Log Photo # 8</b>		
Photographer: Erin Trujillo	Date: 11/15/2012	Time: 1603 hours
City/County: Los Alamos / Los Alamos		State: New Mexico
Location: New Mexico Consortium Biological Research Facility, 100 Entrada Drive, Los Alamos, 87544		
Subject: Example of construction waste and litter in southwest area of site.		

